



Bar-Ilan  
University

# A Panorama Of Scientific Research at Bar-Ilan University



Office of the Vice President for Research | Research Authority



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## Introduction

The pages of this impressive Panorama of Research book offer a glimpse into the far-reaching spectrum of research activity undertaken by the scholars and scientists of Bar-Ilan University. The content reflects, not only the diverse interests of the faculty members, but also, the demographic diversity of the community itself, - men and women, senior and junior academics, new immigrants and native Israelis, and home grown and returning scientists. The full panoply of faculty members, synergizes to produce the remarkable scientific output of Bar-Ilan University.

This is an apt opportunity to note the sea-change that has been taking place in BIU's academic composition, particularly with reference to the significant effect wrought on the quality and quantity of research being produced in the University. Originally established as a largely liberal arts institution with Jewish Studies, Humanities, Law and Social Sciences as the majority partners, over the past decade there have been concerted efforts to shift the balance between the arts and sciences to allow for a more equitable division between the two disciplines. With the addition of Engineering and Medical faculties together with the Exact and Life Sciences, we now are beginning to see the fruits of this policy change in the significant increase in external research funding.

Particularly exciting is the close collaboration forged between the different specialities, through inter- and multi-disciplinary research. Evidence for this can be seen in the hallways and labs of the Gonda Brain Research Center and the Gonda Nanotechnology Complex. These two initiatives allowed the University to provide laboratories for the best and brightest researchers recruited from the most prestigious universities around the world. The University's commitment to not only absorb these new faculty members, but also to provide them with state-of-the-art equipment, start-up funding, and technicians, has resulted in a meteoric rise in research income.

The effects of Bar-Ilan University's focus on faculty development can also be seen in the human sciences, where the range of research being conducted has been enhanced, with a concomitant increase in the number of prizes and awards being bestowed on faculty, helping to create an intellectual culture that is producing the next generation of scholars.

The Panorama of Research book is intended to open the BIU research "DNA" to potential collaborations with scientists and scholars from other universities. This is indeed a targeted effort designed to expand our global academic outreach significantly, increase the number of submissions to major granting agencies, and in general, advance our efforts to create new dynamic partnerships with colleagues and institutions in Israel and abroad.

I invite you to peruse these pages with that goal in mind, and join with us as we strive to reach new horizons in research.

Prof. Arie Zaban  
Vice President for Research



## Faculty of Exact Sciences

Department of Chemistry  
Department of Computer Science  
Department of Mathematics  
Department of Physics



## Department of Chemistry

### **Prof. Amnon Albeck**

E-mail: [albecka@biu.ac.il](mailto:albecka@biu.ac.il)

Synthetic chemistry, peptides, peptidomimetics, enzyme mechanism, enzyme inhibition, proteases, drug design, computational biochemistry.

### **Prof. Doron Aurbach**

E-mail: [Doron.Aurbach@biu.ac.il](mailto:Doron.Aurbach@biu.ac.il)

General, electrochemical, surface and materials science. Development of novel power sources: rechargeable batteries - Li, Mg, Na and Pb based (including Li-air and Li-sulfur batteries); super-capacitors; batteries for electrical propulsion (including Al-air primary batteries), small batteries for portable sensors, batteries for sustainable energy storage and conversion. Water treatment by electrochemical means: development of electrodes and engineering of full devices for water desalination and purification. Development of novel in-situ spectro-electrochemical tools.

**Equipment:** - electrochemical measurements by multi-channel computerized systems; Impedance, FTIR and Raman spectroscopies, XPS, solid-state NMR; surface analysis by gas adsorption; electrochemical quartz crystal microbalance and admittance and microscopy, including surface conductivity measurements; thermal analysis by DSC, accelerating rate calorimeter, and thermo-gravimetric analysis; tunneling electron microscopy, both regular and high resolution, element analysis by ICP.

**Keywords:** Electrochemical, Surface and materials science.

### **Prof. Gerardo Byk**

E-mail: [Gerardo.Byk@biu.ac.il](mailto:Gerardo.Byk@biu.ac.il)

Novel biocompatible nanoparticles for live cell and in vivo applications for imaging, cell tracking, targeting, and diagnostics. Development of Nano metric non-viral gene delivery systems for gene therapy. Total synthesis of analogs of biologically active compounds for treating cancer. Novel multicomponent reactions for the synthesis of new compounds with biological activity.

**Keywords:** Combinatorial chemistry, Nanobiotechnology, Tissue targeting, Tumor targeting.



## Department of Chemistry

### **Prof. Jordan Chill**

E-mail: [Jordan.Chill@biu.ac.il](mailto:Jordan.Chill@biu.ac.il)

The structure, dynamics and function of proteins, folded and unstructured, with applications for structure-guided drug design, employing high-resolution NMR. Specific projects include: interaction of potassium channels with ligands and inhibitors and formation of the E1/E2 glycoprotein complex needed for hepatitis C virus infectivity.

**Equipment:** - Nuclear magnetic resonance spectrometer-700 MHz equipped with cryoprobe; protein expression and purification facility - from gene to sample.

**Keywords:** protein structure, membrane associated proteins.

### **Dr. Lior Elbaz**

E-mail: [Lior.Elbaz@biu.ac.il](mailto:Lior.Elbaz@biu.ac.il)

Fuel Cells, Electrochemistry, Electro catalysis, Oxygen reduction, Hydrogen Oxidation, Design and synthesis of transition metal complexes, Ceramic catalyst supports, Functionalized carbons, Bio-inspired catalytic systems, Electron transfer mechanisms, Metal-air batteries, Solar cells.

### **Prof. Bilha Fischer**

E-mail: [bfischer@mail.biu.ac.il](mailto:bfischer@mail.biu.ac.il)

Medicinal chemistry, nucleotide chemistry, drug development, siRNA, diagnostic probes Alzheimer's disease, inflammatory bowel diseases, osteoarthritis, glaucoma. Expertise in nucleotide, dinucleotide, oligonucleotide synthesis, ectonucleotidases, nucleotide receptors, and fluorescent probes.

### **Prof. (Em.) Aryeh Frimer**

E-mail: [frimea@mail.biu.ac.il](mailto:frimea@mail.biu.ac.il)

Active oxygen chemistry within liposomal bilayers and bio membranes.



## Department of Chemistry

### **Prof. (Em.) Aharon Gedanken**

E-mail: [gedanken@mail.biu.ac.il](mailto:gedanken@mail.biu.ac.il)

Antibacterial, antiviral and antifungal nanoparticles, sonochemical deposition of nanoparticles on surfaces, DNA and RNA Nano spheres and their application for gene expression and gene silencing, conversion of biomass to biofuels (biodiesel and bioethanol). Conversion of Biomass to fine chemicals. Sonochemistry of molten metals Carbon dots and doping carbon dots with metallic (Ga, In, Sn, Pb, and Zn) nanoparticles.

**Equipment:** - TGA and DSC; reflection spectrometer, IR spectrometer, microwave oven, sonicators of powers at 600-2500 W 2 roll to roll sonochemical coating machine for imparting properties to the substrate.

**Keywords:** Nanomaterials, Sonochemistry.

### **Dr. Gil Goobes**

E-mail: [Gil.Goobes@biu.ac.il](mailto:Gil.Goobes@biu.ac.il)

Protein structure; protein adsorption, biomineralization, biophysics of mineralized tissue, DNA structure, biomaterial research, advanced battery materials.

**Equipment:** - Solid state NMR, isothermal titration calorimetry, adsorption and surface characterization, recombinant protein expression, synthesis of proteins and peptides.

**Keywords:** Structural biology, Nanomaterials.

### **Prof. Ilya Grinberg**

E-mail: [ilya.grinberg@biu.ac.il](mailto:ilya.grinberg@biu.ac.il)

Computational chemistry and materials science, density functional theory and molecular dynamics simulations of ferroelectrics, photovoltaics, fuel cell catalysts, transparent conducting oxides, and other functional materials. Development of analytical theories and atomistic potentials to accurately represent bonding and dynamics in complex materials. Rational design of materials with improved properties.

**Keywords:** Computational chemistry, Materials science, Molecular Dynamics simulations, Rational design of new materials.



## Department of Chemistry

### **Dr. Arie-Lev Gruzman**

E-mail: [guzmaa@biu.ac.il](mailto:guzmaa@biu.ac.il)

Medicinal chemistry. Development of new drugs against diabetes, ALS, and prostate cancer.

### **Prof. (Em.) Alfred Hassner**

E-mail: [hassna@mail.biu.ac.il](mailto:hassna@mail.biu.ac.il)

Development of new carbon-carbon bond forming reactions in organic chemistry. Heterocyclic chemistry, Anti-cancer agents.

### **Prof. (Em.) Shmaryahu Hoz**

E-mail: [Shmaryahu.Hoz@biu.ac.il](mailto:Shmaryahu.Hoz@biu.ac.il)

Reaction mechanism and the role of additives in the chemistry of Sml<sub>2</sub>, computational chemistry on mechanical properties of basic engineering elements.

**Keywords:** Computational Nanotechnology.

### **Prof. (Em.) Kenneth Kay**

E-mail: [kay@mail.biu.ac.il](mailto:kay@mail.biu.ac.il)

Semi classical approximations for molecular dynamics and electronic structure of atoms, applications to wave packet tunneling.

**Keywords:** Quantum mechanics.

### **Prof. Jean-Paul Lellouche**

E-mail: [lellouj@biu.ac.il](mailto:lellouj@biu.ac.il)

Innovative interfacial chemistries for nanoscale materials functionalization towards (i) drug delivery systems (magnetic iron oxide nanoparticles and composites - Anti-diabetic, antibacterial, and RNA-mediated gene-silencing nanoparticles), (ii) catalytic nanoscale particles (fuel cell catalytic systems – UV-photoreactive derivatization processes), and (iii) newly derivatized mechanically hard inorganic transition metal dichalcogenide (TMDC, MS/Se<sub>2</sub>) nanotubes and fullerene nanoparticles for novel polymeric composites.

**Keywords:** Interfacial chemistries, Functional magnetic nanoparticles, Functional TMDC inorganic nanoparticles and nanotubes, Catalytic nano systems.





## Department of Chemistry

### **Prof. (Em.) Shlomo Margel**

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Synthesis and characterization of functional nanoparticles for industrial and medical Applications, Nano biotechnology for cancer and neurodegenerative disorders diagnosis and therapy, elemental Fe nano/micro-particles for water treatment (removal of heavy metals and organic pollutants), new adsorbents for CO<sub>2</sub>.

**Keywords:** Nanotechnology, Polymers, Biopolymers.

### **Prof. Yitzhak Mastai**

E-mail: [mastai@biu.ac.il](mailto:mastai@biu.ac.il)

Chirality at the nanoscale, with a focus on preparation and application of Nano chiral surfaces. Chiral polymeric Nano particles for enantioselective process and enantioselective synthesis. Chiral ordered mesoporous silica by chiral polymer-templated synthesis and chiral Nano porous carbon based on chiral ionic liquids. Moreover the group of Prof. Mastai works on new miniemulsion polymerization of cyclodextrin Nano spheres and other polymeric nanoparticles for water purification from organic pollutants.

**Keywords:** Nanotechnology, Self-assembled monolayers.

### **Prof. Dan T. Major**

E-mail: [Dan-Thomas.Major@biu.ac.il](mailto:Dan-Thomas.Major@biu.ac.il)

Computational chemistry of reactions, spectroscopy, etc.; Enzyme simulations using hybrid quantum-classical methodologies; Li-ion battery simulations using density functional theory and classical simulation tools; Metal-oxide simulations using density functional theory; Development of simulation methods for bio- and materials simulations.

**Equipment:** - 70-node computer cluster (nearly 1,000 cores.)

**Keywords:** Quantum simulation tools, Enzyme mechanisms.



## Department of Chemistry

### **Dr. Gilbert Daniel Nessim**

E-mail: [Gilbert.Nessim@biu.ac.il](mailto:Gilbert.Nessim@biu.ac.il)

Synthesis of nanostructures for energy applications focusing on carbon-based 1-D (carbon nanotubes and carbon nanofibers) and 2-D (carbon nanofiber cloths, graphene) nanostructures. Uncovering new growth mechanisms of these nanostructures for future high-performance battery and super-capacitor electrodes.

**Equipment:** - sophisticated plasma-enhanced chemical vapor deposition system with vacuum, inverse plasma, and multiple pre-heating systems, The group's expertise is in the science of thin films, catalysis of carbon nanostructures and chemical vapor deposition.

**Keywords:** Nanotechnology.

### **Prof. (Em.) Avraham Nudelman**

E-mail: [Nudelman@biu.ac.il](mailto:Nudelman@biu.ac.il)

Medicinal chemistry. Highly potent agents for the treatment of neurological and inflammatory diseases (Parkinson's, Alzheimer's and colitis). Novel anticancer agents and inducers of biosynthesis of blood cells (hematopoiesis). New compounds directed to the treatment of neuropathic pain. Agents for protection against nerve gases.

**Keywords:** Drug design, Drug delivery.

### **Prof. Shai Rahimipour**

E-mail: [Shai.Rahimipour@biu.ac.il](mailto:Shai.Rahimipour@biu.ac.il)

Combinatorial chemistry, peptide chemistry, neurodegeneration, misfolded proteins, peptidomimetics, biophysical and biochemical studies, in vitro studies, mechanistic studies, bioactive nano- and micro-capsules.

**Equipment:** - automated 96-well peptide synthesizer, HPLC purification systems, a biohazard hood, a CO2 incubator, centrifuges, inverted fluorescent microscope, a plate reader with UV/vis and fluorimeter-based capabilities.



## Department of Chemistry

### **Dr. Sharon Ruthstein**

E-mail: [Sharon.Ruthstein@gmail.com](mailto:Sharon.Ruthstein@gmail.com)

General: Magnetic Resonance, structural biology, biophysics, copper and heme homeostasis. We aim to shed light on biological pathways that involve metal ions by using Electron Paramagnetic Resonance Spectroscopy (EPR) and various other biophysical and biochemical approaches.

**Equipment:** - CW (E500 Eleksys) and pulsed X- and Q- band E580 Eleksys EPR spectroscopy. Wet biology lab that includes incubators, PCR, HPLC, centrifuges, speed vac.

**Keywords:** Metal ion transportation, Metal ion distribution.

### **Dr. Adi Salomon**

E-mail: [Adi.Salomon@biu.ac.il](mailto:Adi.Salomon@biu.ac.il)

Optical properties of metallic nanostructures and their interaction with molecules. These nanostructures can enhance and confine the light energy to a very small area (nanoscale) and are used as photonic catalysts to enhance and direct chemical and biological reactions.

**Keywords:** Nanotechnology, Energy conversion, Optical properties.

### **Prof. Hanoch Senderowitz**

E-mail: [hsenderowitz@gmail.com](mailto:hsenderowitz@gmail.com)

Development, implementation and application of new computational methods in cheminformatics and drug design. Modeling the structure, dynamics and mode of action of pharmaceutically relevant bio-targets and their ligands. Designing new ligands and predicting their pharmacological profile.

**Equipment:** - computational cluster (~300 cores); molecular modeling software (Discovery Studio, Material Studio, Schrodinger, GROMACS, NAMD, AUTODOCK, utility programs). Expertise in molecular modeling, computational chemistry and biology, molecular simulations, computer-aided drug design, cheminformatics, QSAR, QSPR.

**Keywords:** Computer aided drug design, Cheminformatics, Molecular simulations, Computational chemistry, Computational biology, QSAR, QSPR, Machine learning, Data mining.



## Department of Chemistry

### Dr. Hagay Shpaisman

E-mail: [Hagay.Shpaisman@biu.ac.il](mailto:Hagay.Shpaisman@biu.ac.il)

Directed assembly of materials, Influencing polymerization and phase separation processes with holographic optical tweezers, Directed formation with standing surface acoustic waves, 2D and 3D printing with laser based methods, developing bubble based acousto-driven micro-particles, advancing light controlled microfluidics; creating position sensitive micro structures via digital microfluidics, Programmable self-assembly, Hybrid materials.

**Equipment:** - Scanning confocal Raman microscope; holographic optical Trapping (HOT) tweezers setup; Microfluidics; Standing Surface Acoustic Waves (SSAW) setup.

**Keywords:** Nanotechnology.

### Prof. Chaim Sukenik

E-mail: [Chaim.Sukenik@biu.ac.il](mailto:Chaim.Sukenik@biu.ac.il)

Chemistry of organized assemblies; surface chemistry, nanoscale control over interfacial properties, organic/inorganic thin films and multilayer composite structures.

**Keywords:** Biomaterial interfaces, Nanotechnology.

### Dr. Yaakov Tischler

E-mail: [Yaakov.Tischler@biu.ac.il](mailto:Yaakov.Tischler@biu.ac.il)

Our aim is to understand and tailor light-matter interactions in nanoscale materials and devices. We combine fundamental and applied device spectroscopy, focusing on optically active organic and inorganic semiconductor materials. Applications include monolayer lasers, plasmon-enhanced ultra-high resolution Raman bio-sensors, and higher efficiency alternative energy solutions.

**Equipment:** - microscopes, fsec pulsed lasers, optical parametric amplifier, transient absorption spectrometer, Raman-AFM-NSOM, thin film deposition instruments such as spin-coater, tube furnace, and Langmuir Blodgett trough to prepare nanoscale and nanostructured thin films. Thermal evaporator system with glove box for deposition of small organic materials and chalcogenides.

**Keywords:** Nanotechnology, Molecular photonics, Physical chemistry, Materials science.



## Department of Chemistry

### **Prof. (Em.) Arlene Wilson-Gordon**

E-mail: [gordon@mail.biu.ac.il](mailto:gordon@mail.biu.ac.il)

Theoretical nonlinear and quantum optics, coherent light-matter interaction in model and realistic atomic and solid-state systems, second-harmonic generation of chiral surfaces, propagation, solitons, four-wave mixing.

### **Prof. Arie Zaban**

E-mail: [Arie.Zaban@biu.ac.il](mailto:Arie.Zaban@biu.ac.il)

Sustainable electricity - Solar conversion and storage: All-Oxide PV, Perovskite based solar cells, QDs based solar cells; Dye Sensitized Solar Cells (DSSC); Low cost spectral splitting for multi-bandgap PV, Transparent electrodes and current collectors, Metal-air batteries.

Combinatorial Materials science: All oxide PV; Electro-catalysts. Disciplines: Materials science; solar energy (PV); Electrochemistry; Photo-electrochemistry; Physical chemistry.

**Equipment:** - Sun simulator, spectrophotometer for thin films using Integrating Sphere, fluorometer, charge extraction, transient photo voltage, incident photon to current efficiency (IPCE). Photo voltage spectroscopy. Fabrication systems: PLD, ALD Sputtering, thermal and e-beam evaporation systems. Combinatorial high throughput scanners for I-V measurements, electrochemical measurements, optical measurements.

**Keywords:** Renewable energy, Combinatorial material science, Metal-air battery, Perovskite solar cells, Transparent electrodes.

### **Prof. David Zitoun**

E-mail: [David.Zitoun@biu.ac.il](mailto:David.Zitoun@biu.ac.il); [zitound@mail.biu.ac.il](mailto:zitound@mail.biu.ac.il)

Synthesis of nanomaterials for energy applications; Li-ion and Na-ion batteries, fuel cells, redox flow battery catalysts, and gas sensing. Colloidal and organometallic chemistry; metallic nanoparticles. Magnetism at the nanoscale; magnetic probes in operando devices.

**Equipment:** - Reactors (microfluidic, freeze-dryer, microwave, ball-milling), Thin films (dip-coating, spin-coating), Reactive species handling (glove-boxes), Analytical tools (centrifuge, dynamic light scattering, probe station), Electrochemistry (battery cycler, potentiostat, fuel cell station).

**Keywords:** Nanomaterials, Magnetism, Energy storage, Organometallic chemistry, Energy Applications.



## Department of Chemistry

### Departmental Equipment:

5 NMR machines (200, 300, 400, 500, 600, and 700 MHz + cryoprobe; used for solution or solid state measurements)

3 MS machines (ESI, MALDI TG-GC-MS)

3 ESR machines (used for solution or solid state measurements)

XRD- X-ray Diffraction

Elemental analysis

ICP- Inductively Coupled Plasma

Raman

XPS- X-ray photoelectron spectroscopy

FT-IR- Fourier transform infrared spectroscopy

CD- Circular dichroism

HPLC/GPC

UV

BET

AA- Atomic Absorption spectroscopy



## Department of Computer Science

### **Dr. Noa Agmon**

E-mail: [Noa.Agmon@biu.ac.il](mailto:Noa.Agmon@biu.ac.il); [noasag@gmail.com](mailto:noasag@gmail.com);

Multi-robot systems, including multi-robot patrolling, robot navigation and multiagent planning in adversarial environments, robot path planning, formation, coverage, task allocation, ad-hoc teamwork.

### **Prof. Amihood Amir**

E-mail: [amir@cs.biu.ac.il](mailto:amir@cs.biu.ac.il)

Pattern matching algorithms, computational biology, knowledge discovery in databases, real-time systems algorithms.

### **Dr. Yael Amsterdamer**

E-mail: [Yael.Amsterdamer@biu.ac.il](mailto:Yael.Amsterdamer@biu.ac.il)

Databases, Management of web data and online knowledge bases, big data, crowdsourced data management.

### **Prof. Yonatan Aumann**

E-mail: [aumann@cs.biu.ac.il](mailto:aumann@cs.biu.ac.il)

Algorithms, pattern matching, computational biology, cryptography, data and text mining, parametrized complexity.

### **Prof. Ido Dagan**

E-mail: [dagan@cs.biu.ac.il](mailto:dagan@cs.biu.ac.il)

Natural language processing, computational linguistics, machine learning, information, retrieval - search engines, text categorization, information extraction.

### **Prof. (Em.) Dov Gabbay**

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Logic, logic and law, decision theory, Talmudic logic.



## Department of Computer Science

### **Dr. Yoav Goldberg**

E-mail: [Yoav.Goldberg@gmail.com](mailto:Yoav.Goldberg@gmail.com)

Natural language processing and computational linguistics, syntax and parsing, morphology, machine learning and structured prediction, neural network algorithms for text, sequences and trees, Hebrew NLP.

### **Dr. Ariel Frank**

E-mail: [Ariel@cs.biu.ac.il](mailto:Ariel@cs.biu.ac.il)

Internet resources discovery, digital libraries and search engines, distributed/distance education, networked/distributed multimedia, operating/distributed systems.

### **Dr. Avinatan Hassidim**

E-mail: [Avinatan.Hassidim@biu.ac.il](mailto:Avinatan.Hassidim@biu.ac.il); [avinatanh@gmail.com](mailto:avinatanh@gmail.com)

Algorithms, game theory, quantum computing, approximation algorithms.

### **Prof. Amir Herzberg**

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Cryptography, network security, secure electronic commerce, secure usability, software security, network protocols, distributed algorithms, inter-vehicular networking, fault tolerance.

### **Prof. Gal Kaminka**

E-mail: [galk@cs.biu.ac.il](mailto:galk@cs.biu.ac.il)

Theory and applications of mobile robots, multi-robot systems and robot teams, autonomous agents and multi-agent systems, molecular robotics, artificial intelligence. Commercial applications of robotics and multi-robot systems.





## Department of Computer Science

### **Prof. Tali Kaufman**

E-mail: [Kaufmant@cs.biu.ac.il](mailto:Kaufmant@cs.biu.ac.il)

Sub-linear algorithms and property testing, coding theory, graph theory, randomness in computation, approximation algorithms, combinatorics and additive combinatorics, complexity theory.

### **Dr. Joseph Keshet**

E-mail: [Joseph.Keshet@biu.ac.il](mailto:Joseph.Keshet@biu.ac.il)

Computational study of human speech and language, speech processing, speech recognition, acoustic phonetics, and pathological speech analysis; machine learning, large margin and kernel methods, structured prediction, learning through random perturbations, and deep learning.

### **Prof. Shmuel T. Klein**

E-mail: [tomi@cs.biu.ac.il](mailto:tomi@cs.biu.ac.il)

Data compression, information retrieval, text processing, algorithms.

### **Prof. Moshe Koppel**

E-mail: [Koppel@cs.biu.ac.il](mailto:Koppel@cs.biu.ac.il)

Machine learning, text categorization, authorship attribution.

### **Prof. Sarit Kraus**

E-mail: [Sarit@cs.biu.ac.il](mailto:Sarit@cs.biu.ac.il)

Artificial Intelligence, multi-agent systems, negotiation and cooperation among agents, personalization, optimization of complex systems, electronic commerce, security of databases and systems, non-classical logics.

### **Prof. Moshe Lewenstein**

E-mail: [Moshe@cs.biu.ac.il](mailto:Moshe@cs.biu.ac.il); [Moshe.Lewenstein@gmail.com](mailto:Moshe.Lewenstein@gmail.com)

Algorithms and Data Structures, Computational Complexity of problems in P, Text Indexing and Pattern Matching.



## Department of Computer Science

### **Prof. Yehuda Lindell**

E-mail: [lindell@biu.ac.il](mailto:lindell@biu.ac.il)

Theoretical and applied cryptography, secure multiparty computation, secure protocols.

### **Prof. Nathan Netanyahu**

E-mail: [nathan@cs.biu.ac.il](mailto:nathan@cs.biu.ac.il)

Algorithm design + analysis, computational geometry, image processing + pattern recognition, robust estimation, remote sensing.

### **Prof. Doron Peled**

E-mail: [Doron.Peled@gmail.com](mailto:Doron.Peled@gmail.com)

Concurrency theory, formal verification, formal specification, semantics of programming languages, model checking, finite automata, software testing, temporal logics, partial order methods and traces.

### **Prof. Benny Pinkas**

E-mail: [Benny.Pinkas@biu.ac.il](mailto:Benny.Pinkas@biu.ac.il); [benny@pinkas.net](mailto:benny@pinkas.net)

Applied cryptography and cyber security research, with a focus on secure multiparty computation.

### **Prof. Ely Porat**

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Algorithms, Algorithms for Big Data, Data Structures, Lower bounds, and Pattern Matching.

### **Prof. Liam Roditty**

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Graph algorithms, computational geometry, dynamic algorithms, algorithms for wireless networks.



## Department of Computer Science

**Prof. David Sarne**

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Autonomous agents and multi-agent systems, intelligent interfaces for human-computer interaction, intelligent advice-provisioning large scale simulation systems, information platforms, information brokers, mechanism design and e-commerce.



## Department of Mathematics

### **Prof. Ron Adin**

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Algebraic combinatorics, the symmetric group and its relatives, permutation statistics, special matrices.

**Keywords:** Symmetric group, Permutation statistics, Major index, Standard Young tableau, Combinatorial enumeration, H-vector, Cubical complex.

### **Prof. ( Em.) Mark Agranovsky**

E-mail: [agranovs@math.biu.ac.il](mailto:agranovs@math.biu.ac.il)

Complex analysis, harmonic analysis, integral geometry, inverse problems.

### **Dr. Gideon Amir**

E-mail: [Gideon.Amir@biu.ac.il](mailto:Gideon.Amir@biu.ac.il); [gidi.amir@gmail.com](mailto:gidi.amir@gmail.com)

Probability theory and its interface with group theory – with an emphasis on random walks, random walks on groups, interacting particle systems and random graphs.

### **Dr. Gil Ariel**

E-mail: [arielg@math.biu.ac.il](mailto:arielg@math.biu.ac.il)

Dynamical systems with multiple time scales, mathematical biology, Theory of collective motion.

### **Dr. Tatiana Bandman**

E-mail: [bandman@math.biu.ac.il](mailto:bandman@math.biu.ac.il)

Algebraic geometry, complex analysis.

### **Dr. Baruch Barzel**

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Our lab studies the statistical physics of complex systems. We use physics research tools, but our particles are individuals, neurons, and genes that interact via the social, biological, or neuronal networks.

**Keywords:** Network science, Nonlinear dynamics, Complex systems, Social and biological network Dynamics, Statistical physics.



## Department of Mathematics

### **Dr. Jonathan Beck**

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Quantum groups, mathematical physics.

### **Dr. Shimon Brooks**

E-mail: [brookss@math.biu.ac.il](mailto:brookss@math.biu.ac.il)

Quantum Chaos, Spectral Theory of the Laplacian on surfaces of negative curvature. Dynamical Systems and Ergodic Theory. Connections to Number Theory and Automorphic Forms.

### **Prof. Reuven Cohen**

E-mail: [reuven@math.biu.ac.il](mailto:reuven@math.biu.ac.il)

Complex networks, graph theory, probability, complexity, discrete geometry.

### **Dr. Simha Haber**

E-mail: [simi@biu.ac.il](mailto:simi@biu.ac.il)

Financial Mathematics, Computational Finance, Probabilistic Combinatorics, Finite Model Theory, Graph Theory.

### **Prof. Kenneth Hochberg**

E-mail: [hochberg@math.biu.ac.il](mailto:hochberg@math.biu.ac.il)

Probability, stochastic processes and their applications, superprocesses, measure-valued stochastic processes, stochastic processes of higher-order and their connection to partial differential equations.

### **Dr. Simcha Horowitz**

E-mail: [horowitz@math.biu.ac.il](mailto:horowitz@math.biu.ac.il)

Complex analysis, especially spaces of analytic functions.

### **Prof. Mikhail Katz**

E-mail: [katzmik@math.biu.ac.il](mailto:katzmik@math.biu.ac.il)

Differential geometry, Riemannian geometry, low-dimensional topology, Riemann surfaces, mathematics education, history of mathematics, infinitesimals.



## Department of Mathematics

**Prof. Nathan Keller**

E-mail: [nathan.keller27@gmail.com](mailto:nathan.keller27@gmail.com)

Probabilistic combinatorics, discrete Fourier analysis. Design and cryptanalysis of secret key cryptosystems.

**Prof. (Em.) Ziv Kizner**

E-mail: [Ziv.Kizner@biu.ac.il](mailto:Ziv.Kizner@biu.ac.il)

Geophysical fluid dynamics, rotating fluids, linear and nonlinear vortex stability, vortex breakdown.

**Dr. Yakov Krasnov**

E-mail: [krasnov@math.biu.ac.il](mailto:krasnov@math.biu.ac.il)

Qualitative theory of partial differential equations, complex and hypercomplex analysis, numerical methods.

**Prof. Boris Kunyavski**

E-mail: [boris.solomyak@biu.ac.il](mailto:boris.solomyak@biu.ac.il); [kunyav@gmail.com](mailto:kunyav@gmail.com)

Algebraic geometry, algebraic groups (including computational problems, applications in coding theory, and public-key cryptography).

**Prof. Andrei Lerner**

E-mail: [lerner@math.biu.ac.il](mailto:lerner@math.biu.ac.il)

Real analysis, harmonic analysis.

**Prof. Nir Lev**

E-mail: [levnir@math.biu.ac.il](mailto:levnir@math.biu.ac.il); [levnir@gmail.com](mailto:levnir@gmail.com)

Harmonic analysis and its applications.



## Department of Mathematics

### **Prof. Mordechai Levin**

E-mail: [mlevin@math.biu.ac.il](mailto:mlevin@math.biu.ac.il)

Probabilistic diophantine approximation, applications of number theory to numerical analysis.

### **Prof. Elijah Liflyand**

E-mail: [liflyand@gmail.com](mailto:liflyand@gmail.com)

Harmonic analysis, approximation theory, functions of several complex variables.

### **Prof. Yoram Louzoun**

E-mail: [louzouy@math.biu.ac.il](mailto:louzouy@math.biu.ac.il)

Mathematical immunology, bioinformatics, interplay between node content and network structure, stochastic processes, machine learning.

### **Prof. Stuart Margolis**

E-mail: [margolis@math.biu.ac.il](mailto:margolis@math.biu.ac.il)

Representation theory, semigroups, theory of automata, formal languages, computational algebra, combinatorial group theory, computational complexity theory.

### **Dr. Eli Matzri**

E-mail: [Eli.Matzri@biu.ac.il](mailto:Eli.Matzri@biu.ac.il); [elimatzri@gmail.com](mailto:elimatzri@gmail.com)

Ring theory, Galois theory, commutative and non-commutative rings, matrix algebra, central simple algebras, Brauer groups, Galois cohomology, Milnor K-theory, algebraic geometry, cyclicity, Kummer spaces, symbol length, Massey products.

### **Prof. Michael Megrel**

E-mail: [megereli@math.biu.ac.il](mailto:megereli@math.biu.ac.il)

Groups of topological transformation and applications to functional analysis.



## Department of Mathematics

### **Prof. Ely Merzbach**

E-mail: [Ely.Merzbach@biu.ac.il](mailto:Ely.Merzbach@biu.ac.il)

Stochastic processes, stochastic analysis, spatial point processes, measure theory, martingales, random sets and random patterns, mathematical aspects of the Hebraic Calendar.

### **Prof. Shahar Nevo**

E-mail: [nevosh@math.biu.ac.il](mailto:nevosh@math.biu.ac.il)

Complex analysis: normal families, operator theory: rational matrix valued functions.

### **Dr. Tahl Nowik**

E-mail: [tahl@math.biu.ac.il](mailto:tahl@math.biu.ac.il)

Low dimensional topology, immersions of surfaces, plane and spherical curves, knot diagrams, random knots and curves, nonstandard analysis.

### **Prof. Evgeny Plotkin**

E-mail: [plotkin@math.biu.ac.il](mailto:plotkin@math.biu.ac.il)

Algebra, linear groups.

### **Prof. Andre Reznikov**

E-mail: [reznikov@math.biu.ac.il](mailto:reznikov@math.biu.ac.il)

Number theory, automorphic functions, representation theory.

### **Dr. Assaf Rinot**

E-mail: [rinas@math.biu.ac.il](mailto:rinas@math.biu.ac.il)

Combinatorial Set Theory. Construction of uncountable graphs, trees, colorings, and topological spaces using walks on ordinals, forcing, pcf theory, and fine structure.

### **Prof. Yuval Roichman**

E-mail: [yuvalr@math.biu.ac.il](mailto:yuvalr@math.biu.ac.il)

Combinatorics, graph theory, representation theory, Coxeter groups.





## Department of Mathematics

### **Prof. Louis Rowen**

E-mail: [rowen@math.biu.ac.il](mailto:rowen@math.biu.ac.il)

Non-commutative algebra, finite dimensional division algebras and the structure theory of rings, tropical algebras.

### **Prof. Malka (Mary) Schaps**

E-mail: [mschaps@macs.biu.ac.il](mailto:mschaps@macs.biu.ac.il)

Modular group representations, representations of finite dimensional algebras, deformation theory, tilting theory, financial mathematics.

### **Dr. Michael Schein**

E-mail: [mschein@math.biu.ac.il](mailto:mschein@math.biu.ac.il)

Algebraic number theory, Galois representations, mod  $p$  and  $p$ -adic local Langlands correspondence, asymptotic group theory, subgroup and subring growth.

### **Prof. Jeremy Schiff**

E-mail: [schiff@math.biu.ac.il](mailto:schiff@math.biu.ac.il)

Mathematical physics, differential equations, integrable systems, numerical methods.

### **Prof. (Em.) Steven Shnider**

E-mail: [shnider@math.biu.ac.il](mailto:shnider@math.biu.ac.il)

Lie and Hopf algebras, differential and simplicial geometry, algebraic theory of deformation of algebras, operads, quantum groups.

### **Prof. Leonid Shuster**

E-mail: [shustel@math.biu.ac.il](mailto:shustel@math.biu.ac.il)

Differential equations, differential operators, difference operators, asymptotical problems for differential equations and operators.

### **Prof. Gregory Soifer**

E-mail: [soifer@math.biu.ac.il](mailto:soifer@math.biu.ac.il)

Lie groups. Linear algebraic groups, discrete subgroups of Lie groups.



## Department of Mathematics

### **Prof. Boris Solomyak**

E-mail: [Boris.Solomyak@biu.ac.il](mailto:Boris.Solomyak@biu.ac.il); [bsolom3@gmail.com](mailto:bsolom3@gmail.com)

Fractal geometry and ergodic theory, with an emphasis on self-similar sets and measures, iterated function systems, substitutions and aperiodic tilings. Spectral theory.

**Keywords:** Fractal geometry, Ergodic theory, Spectral theory, Aperiodic order.

### **Prof. Mina Teicher**

E-mail: [teicher@math.biu.ac.il](mailto:teicher@math.biu.ac.il)

Algebraic geometry of curves and surfaces, line arrangements and fundamental groups, braid groups and cryptography, computer vision, mathematical models of brain activity and neural computation.

### **Prof. Boaz Tsaban**

E-mail: [tsaban@math.biu.ac.il](mailto:tsaban@math.biu.ac.il)

Pure mathematics: Applications of infinite combinatorics and other set theoretic methods to real analysis and general topology. Computational mathematics: combinatorial group theory and public key cryptography.

**Keywords:** Selection principles, Ramsey theory, Topological games, Noncommutative cryptography, Algebraic cryptography.

### **Prof. Uzi Vishne**

E-mail: [vishne@math.biu.ac.il](mailto:vishne@math.biu.ac.il)

Structural aspects of noncommutative rings. Quadratic forms and the Witt ring. Central simple algebras of finite or infinite dimension. Growth of rings.

### **Prof. (Em.) Lawrence Zalcman**

E-mail: [zalcman@math.biu.ac.il](mailto:zalcman@math.biu.ac.il)

Complex analysis and potential theory, especially the theory of normal families and the interaction of function theory with other branches of analysis.



## Department of Physics

### Prof. Eli Barkai

E-mail: [barkaie@mail.biu.ac.il](mailto:barkaie@mail.biu.ac.il)

Non-equilibrium statistical physics, weak ergodicity breaking, application to blinking quantum dots and other single molecule systems, diffusion of bio-molecules in a cell environment, cold atoms in optical traps, and infinite ergodic theory.

### Prof. Richard Berkovits

E-mail: [berkov@mail.biu.ac.il](mailto:berkov@mail.biu.ac.il)

Statistical mechanics and transport in meso- and nanosystems, physical properties of 2DEG, quantum dots and nanoparticle, Coulomb blockade and magnetization of restricted geometries, interaction effects in mesoscopic systems, persistent currents, quantum chaos and entanglement entropy. Weak localization and multiple scattering phenomena for classical waves and electrons, the optical Anderson transition, imaging in the multiple scattering regime.

**Keywords:** Statistical mechanics, Magnetism, Imaging, Nanosystems.

### Prof. Itzhack Dana

E-mail: [Itzhack.Dana@biu.ac.il](mailto:Itzhack.Dana@biu.ac.il)

Classical and quantum chaos and transport, topological quantum numbers, related topics in mathematical physics and condensed-matter physics (Anderson localization, quantum Hall effect, topological insulators), and experimental realization of quantum-chaos phenomena, in particular those simulating condensed-matter effects.

**Keywords:** Chaos, Quantum Chaos, Condensed-Matter Physics, Experimental Realization of Quantum-Chaos Phenomena.

### Dr. Emanuele Dalla Torre

E-mail: [Emanuele.Dalla-Torre@biu.ac.il](mailto:Emanuele.Dalla-Torre@biu.ac.il); [mimigdal@gmail.com](mailto:mimigdal@gmail.com)

Theoretical Condensed Matter Physics - Non-equilibrium many-body physics: Quantum optics, Quantum phase transitions, Strongly-correlated electron systems, Superconductors, Ultracold atoms.



## Department of Physics

### **Prof. Mordechai (Motti) Deutsch**

E-mail: [deutschm@mail.biu.ac.il](mailto:deutschm@mail.biu.ac.il)

Intracellular spatiotemporal scattered, transmitted and fluorescence light measurements at an individual cell/cell-spheroid resolution within a population, construction of microstructure platforms for cell/spheroid retaining, growing, treatment and imaging for research in molecular physics, biophysics and medicine. Applications to cell-based high content and high throughput screening.

**Keywords:** Optospectroscopy, Electrochemical measurement, Biological substrates, Biophysical aspects, Functional cellomics.

### **Prof. (Em.) Moshe Deutsch**

E-mail: [deutsch@mail.biu.ac.il](mailto:deutsch@mail.biu.ac.il)

Experimental soft condensed matter physics, liquids, liquid surfaces, surface dynamics in liquids, thin films, multielectronic excitations in atoms, X-ray spectroscopy, x-ray radiography, perfect crystal X-ray optics, crystal nucleation and growth, applications of synchrotron radiation, mathematical methods in physics.

### **Prof. Leonid Feigel**

E-mail: [leonid@biu.ac.il](mailto:leonid@biu.ac.il)

Theoretical studies of superconductivity in high-temperature materials and other novel superconductors (critical fields, symmetry of the superconducting state, vortex pinning and creep, ac response). Electron properties in metals, metal-insulator transitions.

### **Prof. (Em.) Valentin Freilikher**

E-mail: [freiliv@mail.biu.ac.il](mailto:freiliv@mail.biu.ac.il)

Transport and localization in periodic and random media, in particular, in graphene superlattices and metamaterials. Microwave remote sensing of soil moisture and subsurface objects.



## Department of Physics

### **Prof. (Em.) Isaac Freund**

E-mail: [freund@mail.biu.ac.il](mailto:freund@mail.biu.ac.il)

Optical vortices, singular optics, random phase fields and singularities in optics, localization and light scattering.

### **Prof. Aviad Frydman**

E-mail: [frydman@mail.biu.ac.il](mailto:frydman@mail.biu.ac.il)

Magnetism.

### **Prof. Yuval Garini**

E-mail: [Yuval.Garini@biu.ac.il](mailto:Yuval.Garini@biu.ac.il)

Biophysics, single molecule experiments, DNA – protein interactions, the organization of the genome in the nucleus, dynamic processes in live cells, microscopy and spectroscopy, single molecule measurements using tethered particle motion (TPM), single molecule FRET using the TCSPC method.

**Equipment:** - confocal microscope for live-cell imaging, dynamic methods for live cells: FCS, FRAP, FLIM, CP, SPT.

### **Dr. Dimitri Gutman**

E-mail: [gutman@biu.ac.il](mailto:gutman@biu.ac.il)

We are a condensed matter theory group working on a broad variety of problems. Recently, our interests have been focused on non-equilibrium phenomena in strongly correlated electronic systems, particularly in one dimensional quantum wires. Another direction of our research concerns disordered systems, including the many-body localization transition, and topological insulators.

**Keywords:** Quantum wires, disordered systems, topological insulators, Anderson localization.



## Department of Physics

### **Dr. Beena Kalisky**

E-mail: [beena@biu.ac.il](mailto:beena@biu.ac.il)

Scanning SQUID microscopy; sensitive, local, non-invasive magnetic probes to study superconductivity, magnetism and biomagnetism at small length scales and low magnetic fields. Complex oxide interfaces: magnetism, transport, and superconductivity; high temperature superconductors: single vortex dynamics, local modulations in the superfluid density; magnetotactic bacteria – single cell magnetic imaging.

**Keywords:** Biomagnetism, Magnetic probes, Superconductivity, Single cell magnetic imaging.

### **Prof. Ido Kanter**

E-mail: [kanter@mail.biu.ac.il](mailto:kanter@mail.biu.ac.il)

Nonlinear dynamics, chaotic lasers, physical random number generators, physics and information and communication theory, synchronization of neuronal circuits in-vitro.

### **Prof. David Kessler**

E-mail: [kessler@dave.ph.biu.ac.il](mailto:kessler@dave.ph.biu.ac.il)

Theoretical statistical physics, applications to biological systems, dynamics of spatially extended systems, noise, population dynamics, pattern formation.

### **Prof. Lev Khaykovich**

E-mail: [Lev.Khaykovich@biu.ac.il](mailto:Lev.Khaykovich@biu.ac.il)

Laser cooling and trapping of neutral atoms, Bose-Einstein condensate, strongly and weakly interacting cold gases, universal few-body physics, matter-wave solutions.

### **Prof. (Em.) Ziv Kizner**

E-mail: [Ziv.Kizner@biu.ac.il](mailto:Ziv.Kizner@biu.ac.il)

Geophysical fluid dynamics, rotating fluids, linear and nonlinear vortex stability, vortex breakdown.



## Department of Physics

### **Prof. Lior Klein**

E-mail: [kleinl@mail.biu.ac.il](mailto:kleinl@mail.biu.ac.il)

Spintronics, spin torque, magnetotransport, development of ultrahigh sensitive magnetic sensors, development of novel magnetic memory, magnetic perovskites, oxide interfaces, nanomagnetism, superparamagnetism, macroscopic quantum tunneling.

### **Prof. Eugene Kogan**

E-mail: [Eugene.Kogan@biu.ac.il](mailto:Eugene.Kogan@biu.ac.il)

Magnetic interactions in graphene, symmetry analysis of energy bands in graphene and graphene-related materials, and double exchange model.

### **Prof. Avi Peer**

E-mail: [avipeer@mail.biu.ac.il](mailto:avipeer@mail.biu.ac.il)

Quantum optics with broadband squeezed light, ultra-broad entangled photon pairs, frequency comb sources, precision Raman spectroscopy, ultrashort pulse formation and mode locking physics.

### **Prof. Yitzhak Rabin**

E-mail: [rabinserious@gmail.com](mailto:rabinserious@gmail.com)

Biophysics of proteins and DNA, physics of polymer networks, statistical models of extremely polydisperse systems.

### **Prof. (Em.) Dennis Rapaport**

E-mail: [rapaport@mail.biu.ac.il](mailto:rapaport@mail.biu.ac.il)

Molecular dynamics studies of supramolecular self-assembly and complex fluid flow, nanoscale dynamics, simulation of granular segregation, molecular dynamics methodology including GPU algorithm design, interactive simulation using animated computer graphics.



## Department of Physics

### **Prof. Michael Rosenbluh**

E-mail: [rosenblu@biu.ac.il](mailto:rosenblu@biu.ac.il)

Laser spectroscopy, nonlinear optics, Nano-optics, laser chaos and synchronization. Quantum optics as it applies to encryption and secure communications. Coherent Raman spectroscopy and microscopy.

**Equipment:** - CW, Q-switched and mode locked laser systems, high resolution spectrometers and microscopes, AFM, thin film deposition systems, ultra-high frequency electronics.

### **Prof. Patrick Sebbah**

E-mail: [Patrick.Sebbah@biu.ac.il](mailto:Patrick.Sebbah@biu.ac.il)

Experiments are performed in the field of Optics, Acoustics and Microwaves. Experimental physics in Wave Propagation in Complex Media, Light-Matter Interaction, Multiple Scattering, Anderson Localization, Nonlinear and Active Random Media, Random Lasers, Nonlinear Scattering, Instabilities, Speckle Statistics, Optical Singularities.

### **Prof. Boris Shapiro**

E-mail: [shapib@mail.biu.ac.il](mailto:shapib@mail.biu.ac.il)

Theory of magnetism and superconductivity.

### **Dr. Amos Sharoni**

E-mail: [sharonia@mail.biu.ac.il](mailto:sharonia@mail.biu.ac.il)

Phase transitions in correlated transition metal oxides; nanoscale properties and proximity effects. Towards Mottronics devices and resistive memories. Spintronic: Spin manipulation in lateral devices, magnetic material fabrication and characterization. Controlling neuronal growth via magnetic and morphological cues (In collaboration with Prof. Orit Shefi, BIU).

**Equipment:** - 2 UHV physical vapor deposition systems (multi sources) - sputtering (reactive multilayer, etc.), e-beam and thermal evaporation.

**Keywords:** Spintronics, Multiferroics.





## Department of Physics

### **Prof. Efrat Shimshoni**

E-mail: [Efrat.Shimshoni@biu.ac.il](mailto:Efrat.Shimshoni@biu.ac.il)

Theory of strongly correlated electron systems, collective behavior in quantum phases and quantum criticality, transport phenomena in low-dimensional systems, superconductivity in thin films and wires, superconductor-insulator transitions, spin, charge and heat transport in low-dimensional magnetic systems, quantum Hall effect in graphene.

**Keywords:** Superconductivity, Graphene, Quantum phases of matter and phase transitions, Topological matter.

### **Prof. Nadav Shnerb**

E-mail: [nadav.shnerb@gmail.com](mailto:nadav.shnerb@gmail.com)

Physics of complex systems, stochastic population and community dynamics, fluctuation scaling, application to biological systems – ecology, genetics and evolution, pattern formation, synchronization, quenched disorder.

### **Dr. Sharon Schwartz**

E-mail: [Sharon.Schwartz@biu.ac.il](mailto:Sharon.Schwartz@biu.ac.il)

Quantum optics, biphotons generation and manipulation, nonlinear phenomena at X-ray energies, quantum optics in the X-ray regime.

### **Dr. Eli Sloutskin**

E-mail: [Eli.Sloutskin@biu.ac.il](mailto:Eli.Sloutskin@biu.ac.il)

Phase transitions in colloidal suspensions, granular physics, studies of collective phenomena by direct confocal microscopy.

**Equipment:** - resonant laser-scanning Nikon A1R confocal setup, multipoint laser scanning Vt-Infinity3 confocal imaging system, static and dynamic galvanometer-based Photocor light scattering setup, holographic optical tweezing setup, LUMiFuge desktop analytical centrifuge.



## Department of Physics

### **Dr. Michael Stern**

E-mail: [Michael.Stern@biu.ac.il](mailto:Michael.Stern@biu.ac.il)

The Quantum Nanoelectronics Laboratory studies the quantum behavior of superconducting electrical circuits like spins in semiconductors and their coupling with nanosystems. Our experimental techniques combine nanofabrication, dilution refrigeration, scanning probe microscopy, and ultra-low-noise microwave measurements.

**Keywords:** Superconducting circuits, Spins in semiconductors, Nanosystems.

### **Prof. Haim Taitelbaum**

E-mail: [haimt@mail.biu.ac.il](mailto:haimt@mail.biu.ac.il)

Reactive-wetting of metal-metal systems, reaction-diffusion systems, kinetic roughening of advancing interfaces, photon migration models.

### **Dr. Yoni Toker**

E-mail: [yonitoker@gmail.com](mailto:yonitoker@gmail.com)

Action spectroscopy of bio chromophores in the gas phase; photo-electron spectroscopy and photofragmentation mass spectrometry, ion trapping and ion mobility, ultrafast physics, cluster physics.

### **Prof. Shimon Weiss**

E-mail: [shiweiss@g.ucla.edu](mailto:shiweiss@g.ucla.edu)

The Weiss group is developing targetable voltage-sensing inorganic nanoparticles that are designed to self-insert into the cell membrane and non-invasively optically record action potential on the single-particle level, at multi-sites and in a large field-of-view, via the quantum confined Stark effect. Such nanosensors could potentially be used to study signals from multiple neurons in a large field-of-view over a long duration. Moreover, they could potentially report and resolve voltage signals at superresolution on the nanoscale, (such as across a single synapse), in the study of the central and peripheral nervous systems.

**Keywords:** Biophysics, Nanotechnology, Bionanotechnology, Electrophysiology, Neurobiology.



## Department of Physics

**Prof. (Em.) Yosef Yeshurun**

E-mail: [yeshurun@mail.biu.ac.il](mailto:yeshurun@mail.biu.ac.il)

Experimental study of magnetic and superconducting systems, the vortex matter in high temperature superconductors; superconductivity on the nano scale, nanomagnetism, high-power applications of superconductors to smart-grids (fault current limiters) (FCLs), Superconducting Magnetic Energy Storage (SME).

A female scientist with long dark hair, wearing glasses and a white lab coat over a teal top, is focused on her work. She is wearing blue nitrile gloves and is carefully handling a bundle of white fiber optic cables. The cables are connected to a device on a desk. In the background, a computer monitor and keyboard are visible, suggesting a laboratory or office environment. The lighting is bright, and the overall scene conveys a sense of precision and scientific inquiry.

Mina & Everard Goodman  
Faculty of Life Sciences



## Mina & Everard Goodman Faculty of Life Sciences

### **Dr. Lior Appelbaum**

E-mail: [Lior.Appelbaum@biu.ac.il](mailto:Lior.Appelbaum@biu.ac.il)

Molecular neuroscience and endocrinology. The mechanisms and treatments of sleep disorders and psychomotor retardation.

**Equipment:** - Imaging of single molecules, synapses and neurons in live zebrafish using two-photon microscope. High throughput video-tracking behavioral systems.

**Keywords:** Behavior, Synaptic plasticity.

### **Prof. Ehud Banin**

E-mail: [Ehud.Banin@biu.ac.il](mailto:Ehud.Banin@biu.ac.il)

Studying bacterial biofilm formation, biofouling. Developing new nanoparticles as anti-bacterial and biofilm agents.

**Equipment:** - confocal microscope to monitor biofilm formation.

### **Prof. Mira Barda-Saad**

E-mail: [Mira.Barda-Saad@biu.ac.il](mailto:Mira.Barda-Saad@biu.ac.il)

Molecular mechanisms regulating the immune response. Focusing on the signaling and cytoskeleton dynamics of lymphocytes. Using integrative biochemical, biophysical and imaging approaches to study the regulation of lymphocyte behavior in health and disease. Developing new immunotherapeutic approaches for immunodeficiencies and hematopoietic malignancies.

**Equipment:** - Super Resolution Microscopy (STED).

**Keywords:** Immunology, Immunotherapy, Cancer, Immunodeficiency, Nanotechnology.

### **Prof. Shay Ben-Aroya**

E-mail: [Shay.Ben-Aroya@biu.ac.il](mailto:Shay.Ben-Aroya@biu.ac.il)

Genome stability from yeast to man and DNA replication control. Applying genetic screens for the identification of cancer-related genes.

**Equipment:** - robot for high throughput mutant and drug screening.

**Keywords:** Genome stability, Cancer, Protein quality control.



## Mina & Everard Goodman Faculty of Life Sciences

### **Prof. Ilana Berman-Frank**

E-mail: [Ilana.Berman-Frank@biu.ac.il](mailto:Ilana.Berman-Frank@biu.ac.il); [irfrank@biu.ac.il](mailto:irfrank@biu.ac.il)

Biological oceanography focused on the basis of aquatic food-webs: phytoplankton, bacterialplankton, and diazotrophs (dinitrogen-fixers). Research includes examining the impacts of global changes (e.g. warming, ocean acidification) on marine dinitrogen-fixation, ecophysiology and function of marine microbial populations; the effects of desalination discharges on microbial coastal populations, and investigating the potential impacts of off-shore gas drilling on primary and bacterial producers.

**Equipment:** - Oceanographic instruments: in-situ flow cytometer and microscope (CYtosub, CYTOBuoy); in-situ fluorometer for photosynthetic performance -FIRe (SATLANTIC), sediment traps, deep-water pumps. Analytical Laboratory. TOC\_TN analyzer (Shimadzu), CHN analyzer (Perkin Elmer).

**Keywords:** Marine biology, Aquatic nitrogen fixation, Ecology.

### **Prof. (Em.) Haim Breitbart**

E-mail: [Haim.Breitbart@biu.ac.il](mailto:Haim.Breitbart@biu.ac.il)

Biochemistry of the fertilization process. For the last 30 years, our group has focused on understanding the molecular mechanisms leading to fertilization, with primary emphasis on the male gamete, the spermatozoon. During this time, we have discovered new information regarding the cellular mechanisms involved in sperm capacitation and the acrosome reaction. We revealed that protein synthesis occurs in sperm during capacitation, and that this process is essential in order to achieve fertile sperm.

Our research can be applied to diagnose and treat male infertility and describe how biochemical information can be used in the development of male contraceptives.

**Keywords:** Male infertility, Fertilization, Reproduction, Sperm maturation.

### **Prof. Chaya Brodie**

E-mail: [chaya@brodienet.com](mailto:chaya@brodienet.com); [chaya@biu.ac.il](mailto:chaya@biu.ac.il)

Molecular biology and signaling of brain tumors. Development of new anti-glioblastoma therapeutic approaches.

**Keywords:** Cancer biology, Brain research, Cell signaling, Tumorigenesis.



## Mina & Everard Goodman Faculty of Life Sciences

### **Prof. Cyrille Cohen**

E-mail: [Cyrille.Cohen@biu.ac.il](mailto:Cyrille.Cohen@biu.ac.il)

Immunotherapy of cancer and tumor immunology. Development of new immunotherapeutic approaches for cancer cure.

**Equipment:** - FACS.

**Keywords:** Immunotherapy, Cancer Research, Adoptive cell transfer; Chimeric Antigen Receptor (CAR), Tumor Antigens, Gene therapy-cell engineering.

### **Prof. Haim Cohen**

E-mail: [cohenh6@gmail.com](mailto:cohenh6@gmail.com); [Haim.Cohen@biu.ac.il](mailto:Haim.Cohen@biu.ac.il)

Biology of aging and metabolic diseases. Isolation of genes that control life expectancy in mammals.

**Equipment:** - MRI for small animals, metabolic cages, platform for metabolic measurements.

### **Prof. Jeremy Don**

E-mail: [Jeremy.Don@biu.ac.il](mailto:Jeremy.Don@biu.ac.il)

Biology of male fertility and regulatory pathways of cancer biology.

### **Prof. (Em.) Zvy Dubinsky**

E-mail: [dubinz@mail.biu.ac.il](mailto:dubinz@mail.biu.ac.il)

Biophysics of photosynthesis, algal biotechnology and coral ecophysiology. Our activities are focused on a search for sustainable solutions to the ecological consequences of Global Climate Change. Our laboratory has a unique assortment of advanced tools for the study of photosynthesis. These tools are based on the integration of photoacoustics, variable fluorescence, and oxygen evolution rates, and allow us to maximize photosynthetic quantum rates and optimize the yields of valuable products. In addition, we have a computerized algal culture facility, which allows us to search for promising species and optimal culture conditions. We also have a unique computerized aquarium system for the study of Global Climate Change and eutrophication effects on corals.

**Keywords:** Global Climate Change, Photosynthesis, Algae, Corals, Aquatic systems, Eutrophication effect.



## Mina & Everard Goodman Faculty of Life Sciences

### **Prof. Sol Efroni**

E-mail: [Sol.Efroni@biu.ac.il](mailto:Sol.Efroni@biu.ac.il)

Bioinformatics and systems biology of cancer. Using genomic biomarkers, through the use of network biology, sequencing and transcriptomics, to improve the specificity of patient treatment and to understand disease machinery.

**Keywords:** Cancer therapeutics, Drug discovery, Drug design.

### **Prof. Maoz Fine**

E-mail: [Maoz.Fine@biu.ac.il](mailto:Maoz.Fine@biu.ac.il)

Marine biology. Biology and ecology of coral reefs.

**Equipment:** - access to all the marine biology infrastructure in the Interuniversity Institute for Marine Sciences, Eilat.

### **Dr. Doron Gerber**

E-mail: [Doron.Gerber@biu.ac.il](mailto:Doron.Gerber@biu.ac.il)

Microfluidic devices for the mammalian proteome. Identification of new receptors for mammalian viruses. Development of new anti-viral agents.

**Equipment:** - microfluidics devices, nanofabrication clean room for custom made preparation of devices.

**Keywords:** Integrated microfluidics, Protein arrays, Membrane proteins, Protein post translational modifications.

### **Prof. Doron Ginsberg**

E-mail: [Doron.Ginsberg@biu.ac.il](mailto:Doron.Ginsberg@biu.ac.il)

Molecular biology of cancer, Role of non-coding RNAs in cancer progression.

### **Prof. Ron Goldstein**

E-mail: [Ron.Goldstein@biu.ac.il](mailto:Ron.Goldstein@biu.ac.il)

Study of pathogenic neurotropic viruses using neurons generated from human embryonic stem cells. Understanding herpes zoster (shingles) with the goal of developing treatments and/or safer vaccines.

**Keywords:** Human embryonic stem cells, Varicella zoster virus, Herpes zoster.





## Mina & Everard Goodman Faculty of Life Sciences

### Dr. Ofir Hakim

E-mail: [Ofir.Hakim@biu.ac.il](mailto:Ofir.Hakim@biu.ac.il)

Organization of genomic information inside the nuclear space and study of how genome folding patterns in animal and plant model systems regulate the cell transcription program in differentiation, in response to environmental cues, and under pathological conditions.

**Equipment:** - high-throughput next generation sequencing platform (Illumina), high resolution high-throughput microscopy, strong computation hardware, Arabidopsis growth room and chambers with controlled light and temperature.

**Keywords:** Molecular biology, Regulation, Regulatory DNA elements.

### Prof. (Em.) Elisha Haas

E-mail: [Elisha.Haas@biu.ac.il](mailto:Elisha.Haas@biu.ac.il)

The “second genetic code” better known as the “protein folding problem”; the dynamics of protein molecules, and the initial steps of aggregation of proteins causing neurodegenerative diseases are studied by means of site specific labeling, and methods based on single molecule and ensemble time resolved FRET measurements. These detection methods are applied at equilibrium and in ultrafast kinetics experiments, in order to identify the initiation of the processes and the genetic signals coding for them in health and disease.

**Keywords:** Protein folding, Second genetic code, FRET measurements, Pathological protein aggregation, Conformational dynamics.

### Dr. Ayal Hendel

Email: [ayalhendel@gmail.com](mailto:ayalhendel@gmail.com)

The research in my lab focuses on CRISPR-Cas9 genome editing by homologous recombination for gene therapy of hematopoietic and immunological inherited genetic disorders, and cancer immunotherapy of malignancies.

**Equipment:** - high-throughput next generation sequencing platform (Illumina), Flow Cytometer, Nucleofector™ Technology.

**Keywords:** Genome Editing, CRISPR, Gene Therapy, Cancer Immunotherapy, Personalized Medicine, Bio-Nanotechnology.



## Mina & Everard Goodman Faculty of Life Sciences

### **Prof. Tamar Juven-Gershon**

E-mail: [Tamar.Gershon@biu.ac.il](mailto:Tamar.Gershon@biu.ac.il)

Molecular basis of gene expression and the regulation of critical developmental genes in *Drosophila* and humans. We focus on specific control elements that are embedded in the DNA, and their contribution to the regulation of developmental gene networks.

**Equipment:** - fly facility for growing *Drosophila* populations, AKTA chromatography.

**Keywords:** Molecular biology, Transcription, Transcriptional regulation of genetic networks.

### **Dr. Don Katcoff**

E-mail: [Don.Katcoff@biu.ac.il](mailto:Don.Katcoff@biu.ac.il)

Transcription regulation in yeast.

### **Dr. Lee Koren**

E-mail: [Lee.Koren@biu.ac.il](mailto:Lee.Koren@biu.ac.il)

Wildlife hormones and behavioral ecology. Studying hormones that are linked with social behaviors in natural environments, focusing on life history traits and tradeoffs, non-traditional sex and stress steroids, non-invasive hormone testing, acoustic communication and nature conservation.

**Keywords:** Wildlife, Hormones and behavior, Behavioral ecology, Social behavior, Non-invasive sampling, Hair-testing, Steroids, Behavioral endocrinology, Animal communication, Animal behavior.

### **Dr. Sivan Korenblit**

E-mail: [Sivan.Korenblit@mail.biu.ac.il](mailto:Sivan.Korenblit@mail.biu.ac.il); [sivankorenblit@gmail.com](mailto:sivankorenblit@gmail.com)

Biology of aging and stress in nematodes, focusing on understanding the regulation of ER homeostasis under normal growth conditions, in aging animals and in disease. The lab applies genetics, molecular biology, microscopy and cell biology techniques.

**Equipment:** - imaging facility to visualize and manipulate *C. elegans*.

**Keywords:** Aging, Age-related diseases, ER stress response.



## Mina & Everard Goodman Faculty of Life Sciences

### **Prof. Alon Korngreen**

E-mail: [Alon.Korngreen@biu.ac.il](mailto:Alon.Korngreen@biu.ac.il)

Neurobiology and electrophysiology in diseases and health. Studying mammalian neuronal diseases.

**Equipment:** - patch-clamp system.

### **Prof. Erez Levanon**

E-mail: [Erez.Levanon@biu.ac.il](mailto:Erez.Levanon@biu.ac.il); [erezylevanon@gmail.com](mailto:erezylevanon@gmail.com)

Dynamics of genetic information and how it affects evolution, behavior, and disease. Specifically, we develop technology and algorithms to uncover the full extent of A-to-I RNA editing in human and animal models.

**Equipment:** - targets capturing of DNA for next generation sequencing.

### **Prof. Oren Levy**

E-mail: [Oren.Levy@biu.ac.il](mailto:Oren.Levy@biu.ac.il)

Circadian clock in corals.

**Equipment:** - national center for growing corals in my lab.

### **Prof. (Em.) Zvi Malik**

E-mail: [zvi.malik@biu.ac.il](mailto:zvi.malik@biu.ac.il)

Photodynamic treatment of malignant tumors with porphyrins and light radiation; Death processes in malignant cells – ultrastructure of the processes. Computerized spectral imaging in light microscopy.



## Mina & Everard Goodman Faculty of Life Sciences

### **Dr. Yossi Mandel**

E-mail: [Yossi.Mandel@biu.ac.il](mailto:Yossi.Mandel@biu.ac.il)

The Ophthalmic Science and Engineering Lab is focused on basic and translational research in ophthalmology and visual neuroscience. Our main research interests lie in the field of electro-cellular interfaces, the development of optical and electronic microdevices, and in using applied science to improve diagnosis, treatment, and prevention of various ophthalmic diseases. One of the central themes is the artificial introduction of visual information and its processing by the retina and the visual cortex. In addition, we study learning and plasticity processes in the visual system in animals. Other projects include the electrocellular interface with the autonomic system and the application of a high electrical field for solid tumor ablation (IRE - Irreversible Electroporation).

**Keywords:** Ophthalmology research, Electrocellular interfaces, Visual neuroscience, Visual processing, IRE, Ophthalmic disease, prevention, diagnosis, and treatment, Tumor ablation.

### **Prof. (Em.) Eva Meirovitch**

E-mail: [meirove@biu.ac.il](mailto:meirove@biu.ac.il)

Structural biology using MRI.

**Equipment:** - NMR.

### **Prof. Ramit Mehr**

E-mail: [Ramit.Mehr@biu.ac.il](mailto:Ramit.Mehr@biu.ac.il)

Computational Immunology. Immune system lymphocytes express a large diversity of receptors for foreign antigens and self-molecules, and interact through a complicated network of communication, regulation and control, thus enabling immune recognition, decision, action, memory and learning. We use mathematical models, computer simulations and bioinformatics to understand the complex dynamics of lymphocyte repertoires.

**Keywords:** Antibody gene informatics, Bioinformatics, Repertoire shift.

### **Prof. Shulamit Michaeli-Goldberg**

E-mail: [Shulamit.Michaeli@biu.ac.il](mailto:Shulamit.Michaeli@biu.ac.il)

RNA biology-splicing, non-coding RNAs in infectious eukaryotes and man. Targeting key regulatory pathways in cancer cells.

**Equipment:** - variety of special RNA- biology expertise; Preparation of small RNA libraries, mapping of RNA modification by manual sequencing, including all the equipment, RNAseq of selected RNP populations, pipeline of RNA-protein purifications by gradients, affinity purifications and column chromatography.

**Keywords:** Parasites, RNA silencing, Nanotechnology, Cancer biology.



## Mina & Everard Goodman Faculty of Life Sciences

### **Dr. Gad Miller**

E-mail: [Gad.Miller@biu.ac.il](mailto:Gad.Miller@biu.ac.il); [gadmiller@gmail.com](mailto:gadmiller@gmail.com)

Response of plants to biotic and abiotic stress.

**Equipment:** - live imaging for growing plants, plant growth chambers.

**Keywords:** Plant science, Response to environmental stress.

### **Dr. Benny Motro**

E-mail: [motro@mail.biu.ac.il](mailto:motro@mail.biu.ac.il)

Biology of development in mice. Cellular regulators during mammalian development.

**Keywords:** Systems biology, Bio-medicine.

### **Prof. Uri Nir**

E-mail: [Uri.Nir@biu.ac.il](mailto:Uri.Nir@biu.ac.il)

E Biology of cancer and inflammatory diseases. Targeting the reprogrammed energy generation machinery in cancer cells and development of new anti-cancer drugs.

**Equipment:** - robot for drug screening.

**Keywords:** Cancer biology, Growth regulation.

### **Dr. Yanay Ofran**

E-mail: [yanay@ofranlab.org](mailto:yanay@ofranlab.org)

Biological processes are executed by meticulous interactions between proteins and other molecules; use of computational and molecular tools to study and engineer protein interfaces; development of new drugs and engineering new proteins and antibodies with novel functions.

**Keywords:** Systems biology, Protein interactions, Functional genomics, Bioinformatics.



## Mina & Everard Goodman Faculty of Life Sciences

### **Dr. Eitan Okun**

E-mail: [Eitan.Okun@biu.ac.il](mailto:Eitan.Okun@biu.ac.il)

Research in our laboratory focuses on both basic and translational neuroscience. We study the roles of the innate immune Toll-like receptors / Interleukin-1 pathways on memory and spatial learning of pattern separation and completion in rodents. In human subjects, we use virtual reality environments to study spatial learning and memory and investigate methods of adult neurogenesis. We have significant experience with mouse models of Alzheimer's disease, Parkinson's disease and Down syndrome as well as primary neuronal cell culture, which are used to develop a DNA vaccination strategy to delay the progression of Alzheimer's disease and study biomarkers with the aim of achieving earlier diagnosis of neurodegenerative disorders.

We are also developing tools for machine-learning based classification of spatial navigation in mice.

**Keywords:** Neurodegeneration, Spatial learning, Neurogenesis, Neuroimmunology, Alzheimer's disease, Parkinson's disease.

### **Dr. Yarden Opatowsky**

E-mail: [Yarden.Opatowsky@gmail.com](mailto:Yarden.Opatowsky@gmail.com)

Our research is concerned with structure-function investigations of signaling pathways that are involved in neurogenesis, neurodegeneration and neuroregeneration.

**Equipment:** - Bruker X8 x-ray home laboratory, temperature-controlled crystallization rooms, mosquito robot, AKTA FPLC, analytical ultracentrifuge.

**Keywords:** Structural studies, Cell signaling assemblies.

### **Dr. Yoav Paas**

E-mail: [Yoav.Paas@biu.ac.il](mailto:Yoav.Paas@biu.ac.il)

Biophysics of neuronal cell channels.

**Equipment:** - patch clamp for single channel analysis.

**Keywords:** Biophysics, Pharmacology, Ion channels.

### **Prof. Rafael Perl-Treves**

E-mail: [perl@biu.ac.il](mailto:perl@biu.ac.il); [rafi.perl@gmail.com](mailto:rafi.perl@gmail.com)

We are expert in melon and cucumber molecular genetics. We have mapped and cloned disease resistance genes and we characterize plant interactions with pathogens. We study male and female flower development in cucumbers, and the control of fruit set, using diverse molecular and genetic tools.

**Keywords:** Molecular genetics, Plant reproduction, Genetic mapping.



## Mina & Everard Goodman Faculty of Life Sciences

### **Prof. Uri Polat**

E-mail: [Uri.Polat@biu.ac.il](mailto:Uri.Polat@biu.ac.il); [uri.polat@innovision-labs.com](mailto:uri.polat@innovision-labs.com)

Prof. Uri Polat is a neuroscientist specializing in brain plasticity, visual processing and optometry. Currently he is the head of the Vision Science program.

His research concentrates on unraveling the central brain connections of the visual system, on their development and organization, on learning how to modify them, and on the clinical use of the results of this basic research. The technology of improving vision is being used very successfully in cases such as Amblyopia (lazy eye), Presbyopia (aging eye), Presbyopic Air-Force pilots, Traumatic Brain Injury, as well as with young participants with normal vision, and in cases of visual agnosia. The Polat Lab has developed a method of monitoring eye movements that enables us to reveal objective data in clinical cases such as ADHD as well as investigate contrast sensitivity in non-verbal patients such as infants and autistic subjects. We have also modified the method and applied it to explore the development of visual processing in children.

**Keywords:** Brain plasticity, Visual perception, Vision rehabilitation, Perceptual learning, Visual development, Visual processing, Clinical research.

### **Prof. Ronit Sarid**

E-mail: [saridr@mail.biu.ac.il](mailto:saridr@mail.biu.ac.il); [saridr@gmail.com](mailto:saridr@gmail.com)

Host-virus interactions with particular attention to the Kaposi's sarcoma associated herpesvirus (KSHV; also termed Human herpesvirus 8 - HHV-8). Composite nanoparticles and microspheres for the inhibition of herpesvirus infection.

**Keywords:** Kaposi's sarcoma-associated herpesvirus (KSHV), Human herpesvirus 8 (HHV-8), Herpes simplex virus type 1 and 2 (HSV-1/2).

### **Prof. Rakefet Schwarz**

E-mail: [Rakefet.Schwarz@biu.ac.il](mailto:Rakefet.Schwarz@biu.ac.il)

Acclimation of cyanobacteria to environmental stress. 1. Regulated proteolysis of the cyanobacterial light harvesting supramolecular complex. 2. Regulation of biofilm formation in cyanobacteria. 3. Biofuel based on cyanobacteria.

Facilities: - cyanobacterial growth rooms.

**Keywords:** Genetic and molecular approaches, Molecular mechanisms, Cell-cell communication.



## Mina & Everard Goodman Faculty of Life Sciences

### **Dr. Orit Shaul**

E-mail: [Orit.Shaul@biu.ac.il](mailto:Orit.Shaul@biu.ac.il)

Molecular mechanisms that regulate metal homeostasis in plants, with emphasis on the physiological function, phylogenetics, and regulation of expression of the MHX family of magnesium, zinc, and cadmium transporters. Post-transcriptional mechanisms that regulate plant gene expression, including nonsense-mediated mRNA decay and intron-mediated enhancement.

**Equipment:** - hydroponic plant growth-system, greenhouse.

**Keywords:** Plant biology, Magnesium transporter, Regulation of plant gene expression.

### **Prof. Yaron Shav-Tal**

E-mail: [Yaron.Shav-Tal@biu.ac.il](mailto:Yaron.Shav-Tal@biu.ac.il)

Single cell live imaging of gene activity in normal and cancer cells. Gene expression pathway in normal and cancer cells using high-resolution fluorescent microscopy imaging. By peering into living cells, we examine key biological processes as they occur in real-time.

**Equipment:** - live-imaging microscopy, robot for drug screening with the use of microscopy.

**Keywords:** Nucleus, mRNA, Gene expression, Live cell microscopy.

### **Dr. Galit Shohat-Ophir**

E-mail: [Galit.Ophir@biu.ac.il](mailto:Galit.Ophir@biu.ac.il)

Genetics of social behavior. Living in a social environment requires perception of a socially relevant sensory stimulus, representation of this information in the brain, and integration of the stimulus with other relevant cues. Defining the principles by which social interactions among individuals produce specific changes in the brain that lead to behavior modification.

**Equipment:** - deep sequencing and microscopy.

**Keywords:** Molecular signature, Neuronal populations, Behavior.





## Mina & Everard Goodman Faculty of Life Sciences

### **Prof. (Em.) Benjamin Sredni**

E-mail: [srednib@biu.ac.il](mailto:srednib@biu.ac.il)

Our laboratory is involved in the study of the regulation of the immune system by immunomodulators that shift immune responses from Th2 to Th1 type, and thus, are beneficial in various clinical conditions. It has been demonstrated in the laboratory that immunomodulators (AS101, SAS) have anti-cancer and anti-infective effects. Additionally, these compounds have been shown to exert beneficial effects on several autoimmune and neurodegenerative diseases.

**Keywords:** Immunoregulation, Immunomodulators, Autoimmunity, Clinical disease, Therapeutics.

### **Prof. (Em.) Yosef Steinberger**

E-mail: [Yosef.Steinberger@biu.ac.il](mailto:Yosef.Steinberger@biu.ac.il)

Desert ecology.

### **Prof. Abraham Susswein**

E-mail: [avy@biu.ac.il](mailto:avy@biu.ac.il)

Neurobiology and learning in Aplysia.

**Equipment:** - Aplysia farm.

**Keywords:** Biophysics, Behavior, Neural basis of behavior.

### **Dr. Amit Tzur**

E-mail: [Amit.Tzur@biu.ac.il](mailto:Amit.Tzur@biu.ac.il)

Regulation of mammalian cell cycle progression in normal and cancerous cells.

**Equipment:** - microscopy.

**Keywords:** Cell cycle, Cell growth, Cancer biology.

### **Prof. Ron Unger**

E-mail: [ron@biocom1.ls.biu.ac.il](mailto:ron@biocom1.ls.biu.ac.il)

Computational biology of RNA and protein structures.

**Equipment:** - computer programs for 3D analysis.

**Keywords:** Genetic algorithms, Molecular computation, Systems biology.



## Mina & Everard Goodman Faculty of Life Sciences

### **Dr. Achia Urbach**

E-mail: [Achia.Urbach@biu.ac.il](mailto:Achia.Urbach@biu.ac.il)

Using human pluripotent stem cells (both hESCs and hiPSCs) and transgenic mice to study embryonic development and pediatric cancer .

**Equipment:** - Pluripotent stem cell culture facility

**Keywords:** Pluripotent stem cells, Embryonic development, Pediatric cancer.

### **Prof. Ron Wides**

E-mail: [wides@biu.ac.il](mailto:wides@biu.ac.il)

Developmental, neuronal, and behavioral roles of Teneurin family genes.

**Equipment:** - Live molecular imaging

**Keywords:** Signaling pathways, Neuronal plasticity, Systems biology, Bioinformatics.

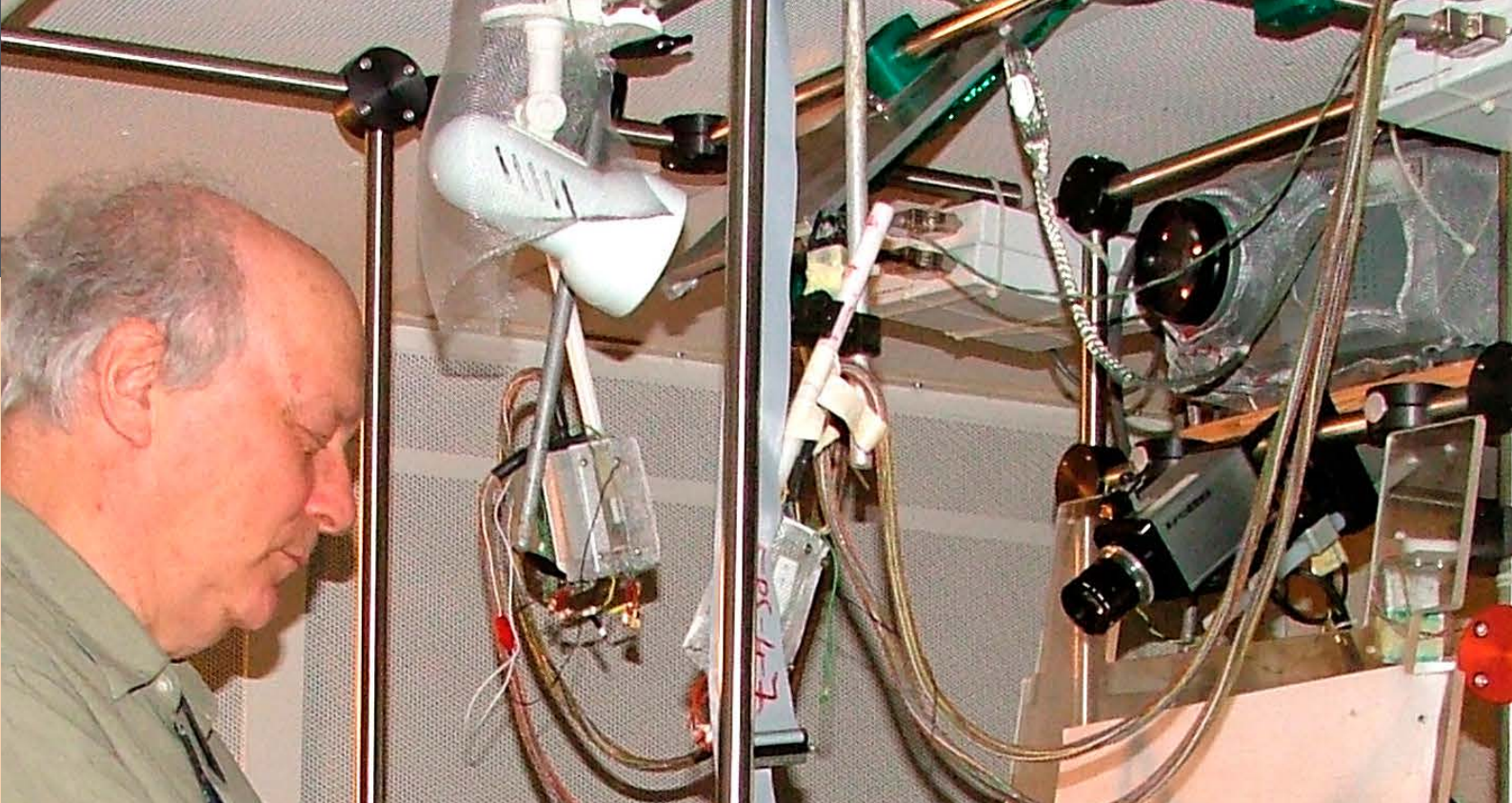
### **Prof. Gal Yadid**

E-mail: [yadidg@mail.biu.ac.il](mailto:yadidg@mail.biu.ac.il)

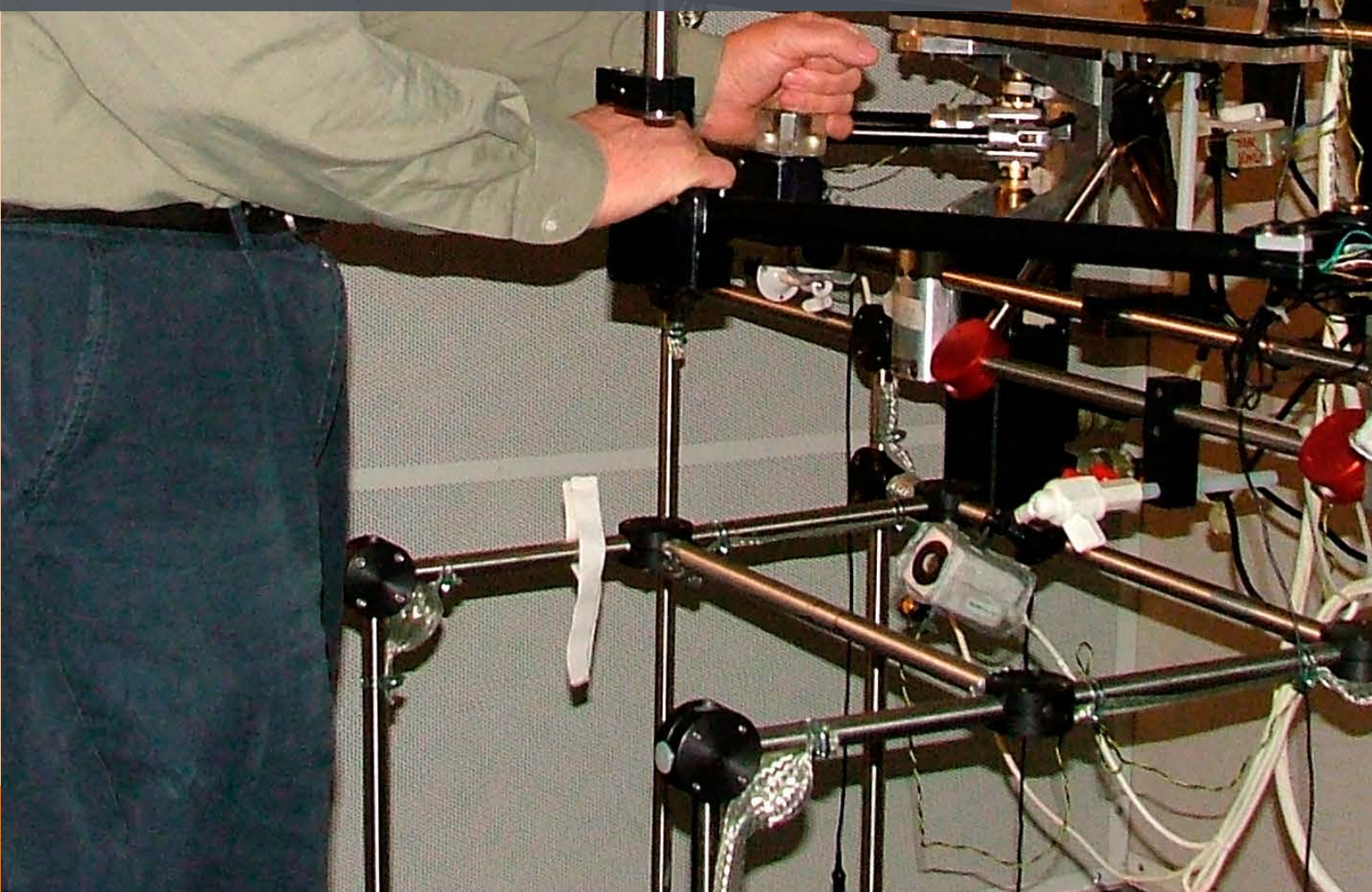
Biology of addiction and depression in mice and rats. Extending implications to humans and development of new anti-depressants.

**Equipment:** - behavior rooms, HPLC for brain micro dialysis, brain stimulation apparatus.

**Keywords:** Neuropsychopharmacology, Behavior, Drug addiction.



Faculty of Engineering





## Engineering

### **Dr. Itzhak (Itsik) Bergel**

E-mail: [Itsik.Bergel@biu.ac.il](mailto:Itsik.Bergel@biu.ac.il)

Wireless communication theory, Signal processing for communication, Wireless ad-hoc Networks and access protocols, Stochastic geometry modeling and cross layer optimization of wireless networks, Multi-user and cooperative cellular communication, Vector precoding for DSL systems.

### **Prof. Shraga Bross**

E-mail: [Shraga.Bross@biu.ac.il](mailto:Shraga.Bross@biu.ac.il)

Statistical communication and Information Theory. Cooperation and secrecy aspects in multiterminal systems.

### **Prof. Meir Danino**

E-mail: [Meir@danino.org](mailto:Meir@danino.org)

Solid State Physics, Electro-optics, Infra-Red Systems, Image Processing.

### **Dr. Amos Danieli**

E-mail: [Amos.Danielli@biu.ac.il](mailto:Amos.Danielli@biu.ac.il)

Magnetic modulation biosensing for rapid detection of proteins and specific DNA sequences at ultralow concentrations. Developing magnetic- and fluorescence-based biosensors, including DNA assays and immunoassays. Photoacoustic imaging, fluorescence microscopy, genomic scissors, optical imaging.

### **Prof. Alexander Fish**

E-mail: [alexander.fish@gmail.com](mailto:alexander.fish@gmail.com)

Energy efficient electronics and applications; low power CMOS image sensors, low voltage digital design, energy efficient SRAM, eDRAM and flash memory arrays, secured chips and low power design techniques for digital and analog VLSI chips.



## Engineering

### **Dr. Dror Fixler**

E-mail: [Dror.Fixler@biu.ac.il](mailto:Dror.Fixler@biu.ac.il)

Emission, transmission, detection and sensing of light for biomedical properties.

Developing new technologies for fluorescence lifetime imaging (FLIM), medical testing, and light tissue interaction. Use of gold nanoparticles (GNPs) in diffusion reflectance spectroscopy.

**Equipment:** - Time correlated single photon counting system for FLIM attached to fully motorized inverted research microscope; fluorescence attachment for FLIM.

### **Dr. Mordechai (Moti) Fridman**

E-mail: [mordechai.fridman@biu.ac.il](mailto:mordechai.fridman@biu.ac.il); [moti43@gmail.com](mailto:moti43@gmail.com)

Investigates cloaking of events in time and developing novel devices for optical processing using nonlinear optics in fibers and in silicon waveguides.

### **Prof. Sharon Gannot**

E-mail: [Sharon.Gannot@biu.ac.il](mailto:Sharon.Gannot@biu.ac.il)

Speech processing, especially speech enhancement, noise reduction, speaker separation, dereverberation, echo cancellation. Applications: teleconference systems, smart homes, voice over IP, cellular phones, ad hoc microphone networks, eavesdropping.

**Equipment:** - Acoustic lab with controlled reverberation time (the only one in Israel and one of very few worldwide). Equipped with state-of-the-art audio measurement and acquisition equipment. Allows for fast testing and verification of algorithms.

**Keywords:** Speech enhancement, Multi-microphone Speech separation, Dereverberation, Speaker localization.

### **Prof. Jacob Goldberger**

E-mail: [Jacob.Goldberger@biu.ac.il](mailto:Jacob.Goldberger@biu.ac.il)

Statistical machine learning, image processing, computer vision, data clustering and error correcting codes.



## Engineering

### **Dr. Carmit Hazay**

E-mail: [Carmit.Hazay@biu.ac.il](mailto:Carmit.Hazay@biu.ac.il)

Cryptography, designing secure and efficient protocols, outsourced secure computation (e.g., using cloud services), protocols that compute any distributed task while ensuring privacy and correctness. Security proofs in the presence of adversarial models that capture attackers that control a subset of the parties that participate in the computation.

### **Dr. Tomer Kalisky**

E-mail: [YTomer.Kalisky@gmail.com](mailto:YTomer.Kalisky@gmail.com)

Cancer genomics, single cell technologies, and next generation sequencing.

**Equipment:** - Biomark microfluidic single cell PCR, pipetting robot, fluorescence microscope for mRNA-FISH, C1 system for single cell RNA sequencing

### **Prof. Yosi Keller**

E-mail: [Yosi.Keller@gmail.com](mailto:Yosi.Keller@gmail.com)

Machine learning, high dimensional data analysis, signal processing, image processing and computer vision, two and three dimensional shape and face recognition, shape spaces, kernel methods, signal processing on graphs, computer vision.

### **Dr. Osnat Keren**

E-mail: [Osnat.Keren@biu.ac.il](mailto:Osnat.Keren@biu.ac.il)

Spectral methods and their application in logic design and testing, Concurrent error detection and fault tolerant design, Decision diagrams optimization, Robust codes for reliable and secure computation channels, Coding for computer systems.

### **Dr. Hillel Kugler**

E-mail: [Kugler.Hillel@biu.ac.il](mailto:Kugler.Hillel@biu.ac.il)

Reactive systems, formal verification and synthesis, visual languages, biological modeling, stem cells, developmental biology, biological computation.



## Engineering

### **Prof. Amir Leshem**

E-mail: [Amir.Leshem@biu.ac.il](mailto:Amir.Leshem@biu.ac.il); [leshema@eng.biu.ac.il](mailto:leshema@eng.biu.ac.il)

Signal processing for wireless and wireline communications. Signal processing for radio astronomy, statistical signal processing, cognitive radio networks, sensor networks.

### **Prof. (Em.) George S. Moschytz**

E-mail: [moschytz@isi.ee.ethz.ch](mailto:moschytz@isi.ee.ethz.ch)

Analog and digital signal processing, including filter theory and design (analog, digital, Switched-capacitor, and adaptive), neural networks for signal processing, and the application of signal processing techniques to biological signals and medical needs (e.g. EMG analysis, hearing aids for the profoundly deaf).

### **Dr. Doron Naveh**

E-mail: [Doron.Naveh@biu.ac.il](mailto:Doron.Naveh@biu.ac.il)

Modeling, fabricating and conducting measurements on electronic devices and fundamental properties of two dimensional materials including graphene, Mos2 and Bi2Se3.

### **Dr. Yair Noam**

E-mail: [Yair.Noam@biu.ac.il](mailto:Yair.Noam@biu.ac.il)

Interference Mitigation in wireless communications networks; Estimation theory, Bound on estimation error; Cooperative and Competitive Spectrum management in wireless networks; Signal processing for communications; Signal processing for biology.

### **Prof. Rachela Popovtzer**

E-mail: [Rachela.Popovtzer@biu.ac.il](mailto:Rachela.Popovtzer@biu.ac.il)

Development of 'smart' nanoprobes for theranostic-based applications. Specifically, we investigate the design principles of gold nanoparticles to be used as CT contrast agents for molecular imaging of cancer. We also develop nanoparticles that can pass the BBB and target Alzheimer's disease bio-markers for imaging and therapeutic applications.

**Equipment:** - Micro-CT (Skyscan).

**Keywords:** Metabolic based imaging and therapy, Alzheimer's disease, Parkinson's disease, Targeted drug delivery.



## Engineering

### **Dr. Dror Rawitz**

E-mail: [Dror.Rawitz@biu.ac.il](mailto:Dror.Rawitz@biu.ac.il); [rawitz@gmail.com](mailto:rawitz@gmail.com)

Algorithms, algorithmic aspects of computer networks, approximation and online algorithms, sensor networks, scheduling and resource allocation.

### **Prof. Adrian Segall**

E-mail: [Adrian.Segall@biu.ac.il](mailto:Adrian.Segall@biu.ac.il)

Computer Networking; Protocols for Reliable Network Communication, TCP/IP and ATM Protocols, Protocol Specification and Validation; Wireless Networks, Ad-Hoc and Sensor Networks; the Smart Grid Power Network; Transportation Networks

### **Prof. Orit Shefi**

E-mail: [orit.shefi@biu.ac.il](mailto:orit.shefi@biu.ac.il)

Manipulation of neuronal growth in regenerative biomedicine and bioengineering. 2D and 3D neuronal cultures and the nervous system of the medicinal leech to study neuronal tissue. Development of chemical and physical technologies, based on nanofeatures, to deliver therapeutics and to promote and control neuronal growth.

### **Prof. Joseph Shor**

E-mail: [Joseph.Shor@biu.ac.il](mailto:Joseph.Shor@biu.ac.il)

Analog circuits operating in harsh digital environments; Low voltage and low power analog circuits for processors; Methodologies and building blocks for analog circuits in pure digital processes; Area-scaling of analog circuits; Digital calibration and BIST (Built in self-test) of analog circuits; Circuits for Power management; Security Circuits Thermal Sensors; Micro sensors.

### **Dr. Anelia Somekh-Baruch**

E-mail: [Anelia.Somekh-Baruch@biu.ac.il](mailto:Anelia.Somekh-Baruch@biu.ac.il); [anelia.somekhbaruch@gmail.com](mailto:anelia.somekhbaruch@gmail.com)

Information theory and communication, channel coding, networks and multiuser communication, cognitive networks, cooperative communication, communication with side information, security in wireless networks, watermarking and information hiding, prediction and filtering.





## Engineering

### **Dr. Adam Teman**

E-mail: [Adam.Teman@biu.ac.il](mailto:Adam.Teman@biu.ac.il)

VLSI; Circuits and Systems; Energy-efficient Integrated Circuits; Low-Power Circuit Design; Embedded Memories; Process tolerant design; Hardware for approximate computing; Physical Implementation Methodologies.

**Equipment** – Chip design labs, including full EDA suites for transistor-level to system-level hardware design, simulation, verification, and validation. Measurement labs for post-silicon validation, characterization and reliability testing.

### **Dr. Ofir Weber**

E-mail: [ofir.weber@biu.ac.il](mailto:ofir.weber@biu.ac.il); [ofir.weber@gmail.com](mailto:ofir.weber@gmail.com);

Theoretical and computational methods in geometry and their applications to problems in computer graphics and digital geometry processing.

In particular, I am working on the following applications: interactive shape and image deformation, bounded distortion mappings, surface parameterization, development of generalized barycentric coordinates, shape interpolation, and computer animation. My research is focused mainly on better understanding and representing shape, and developing novel methods to preserve shape under large deformations.

**Keywords:** Theoretical and computational methods in geometry, Computational tools, Image deformation, Shape, Computer animation.

### **Prof. Aryeh Weiss**

E-mail: [Aryeh.Weiss@biu.ac.il](mailto:Aryeh.Weiss@biu.ac.il)

Live cell imaging using digital and confocal microscopy; Imaging of dynamic processes in cells; Translocation of large molecules and nanostructures into cells; Quantitative microscopy.

**Equipment:** - A fully automated live-cell microscope with on-scope incubator, a confocal time correlated single photon counting (TCSPC) fluorescence lifetime imaging (FLIM) system.

### **Prof. Shmuel Wimer**

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VLSI circuits and systems, Low-energy and low-power design, VLSI design optimization, Arithmetic circuits, Clocking systems, combinatorial optimization.



## Engineering

### **Dr. Gur Yaari**

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Computational systems biology, bioinformatics, B cell receptor (antibody) repertoire sequencing analysis, computational immunology, data science, stochastic modeling.

### **Prof. Avinoam (Avi) Zadok**

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Fiber-optics and photonic devices. Fibers for high-resolution distributed sensing of temperature and strain, and for the processing of microwave and radar waveforms. Integration of active photonic functionalities, such as the generation, amplification and modulation of light, alongside electronics on the silicon material platform. Hybrid material integration.

**Equipment:** - ultrafast Ti: Sapphire laser system for direct lithography, wafer bonder. High-rate oscilloscopes, waveform generators and spectrum analyzers

**Keywords:** Electro-optics, Photonic design.

### **Dr. Benjamin M. Zaidel**

E-mail: [Benjamin-m.zaidel@biu.ac.il](mailto:Benjamin-m.zaidel@biu.ac.il)

Information-theoretic aspects of multiuser detection techniques, multiple-input multiple-output channels, cooperative processing in wireless networks, and the application of random matrix theory and statistical physics tools to problems in communications and information theory.

**Keywords:** Multiple-input multiple-output channels, Random matrix theory, Replica method, Cooperative processing, Multiuser information theory.

### **Prof. Zeev Zalevsky**

E-mail: [Zeev.Zalevsky@biu.ac.il](mailto:Zeev.Zalevsky@biu.ac.il)

Nano photonics, silicon photonics and plasmonics- realization of Nano modulators, logic gates and photonic memory cells; microwave photonics and photonics modules such as A2D converters for optics communication networks; optical imaging - super resolution including depth of focus extension; biomedical remote sensing and monitoring.

**Equipment:** - Microscopes, Various types of CW and Q-switched lasers and cameras, various numerical software tools for solving Maxwell equation.

**Keywords:** Nanotechnology, Generation of manipulation of light, High speed information processing, Biological sensing.



## Engineering

**Prof. Ephraim (Ephi) Zehavi**

E-mail: [Ephraim.Zehavi@biu.ac.il](mailto:Ephraim.Zehavi@biu.ac.il); [ephiz@yahoo.com](mailto:ephiz@yahoo.com)

Wireless communications, Advance coding technology, MIMO channel tracking, Application of game theory to resource allocation, Coexistence of wireless network, Application of analog coding for interference channel, Wide band communication systems (CDMA, OFDM).



## Bar-Ilan Institute of Nanotechnology and Advanced Materials (BINA)

### Scientific Instrumentation

**The Electron Microscopy (EM) Facility**, equipped with a variety of scanning and transmission electron microscopes (SEMs and TEMs) is a sophisticated facility for morphology and structural information including crystallographic structure, phase identification, and analytical capabilities using energy dispersive X-ray spectrometry (EDS).

Both the scope and sophistication of its equipment make the EM facility an invaluable resource for researchers in semiconductors, ultra-fine grain materials or thin films, solar cells, and many other fields that are based on nanotechnology, nanodevices, and materials science.

**SEM** - Scanning electron microscope, FEI, Inspect

**ESEM** - Environmental scanning electron microscope, FEI, Quanta

**XHR-SEM** - High resolution scanning electron microscope, FEI, Magellan 400L

**TEM** - Transmission electron microscope, FEI, Tecnai G2 (Cryo TEM)

**TEM** - Transmission electron microscope, JEOL 1400, analytical TEM

**HR-TEM** - High resolution transmission electron microscope, JEOL, JEM-2100

**The BINA Nano Fabrication Facility** provides state-of-the-art tools for patterning and crafting devices on a nanometer scale. These include a focused ion beam (FIB), e-Beam lithography, photolithography, and a range of deposition capabilities and clean rooms (Class 100 and 1000) equipped for a variety of fabrication processes. Pattern writing, as well as several failure analysis (FA) processes such as cross-sectioning, TEM lamella preparation, circuit editing and nanoprobeing, are also offered. The Nano Fabrication Facility is equipped with tools for thin layer fabrication with atomic resolution, based on a wide variety of material compositions including atomic layer deposition (ALD), pulsed laser deposition (PLD), and advanced sputtering and evaporation systems. Our professional staff and the equipment they manage offer creative solutions for a wide range of fabrication processes.

**FIB** – Focused ion beam, FEI, Helios 600 NanoLab. A very useful tool for cross sections, TEM preparation, failure analysis and circuit editing.

**HIM-FIB** - He Ion Microscope, Nano Fab from Zeiss, a triple beam system of Ga, Ne and He, which can write in the nano scale resolution down to 4 nm gaps, giving images down to 0.35 nm resolution for conductive non-conductive and magnetic samples.



## Bar-Ilan Institute of Nanotechnology and Advanced Materials (BINA)

**E-Beam Lithography** - CRESTEC, CABL-9500C

Evaporation and sputtering, Bestec, GMBH

**ALD** – Atomic layer deposition, Cambridge, Fiji F200

**PLD** – Pulse laser deposition, Neocera, Pioneer 180 CCS

**ICP/RIE** – Reactive ion etcher, Plasma-Therm, VERSALINE

**Dicing Saw** – Disco up to 8"

**Probe Station with Device analyzer** – Suss / Agilent

**BINA's Surface Analysis Facility** has an established reputation for solving a variety of problems in materials science including analysis of polymers, metals, semiconductors, corrosion coatings, thin films, glass and ceramics. Our particular expertise is in the analysis of discoloration, contamination, and adhesion problems. The types of analysis most frequently performed in this facility include atomic force microscopy (AFM), ion beam analysis (IBA) and X-ray diffraction (XRD).

AFM is based on scanning probe microscopy and provides unique data about atomic scale surface topography, as well as electrical, magnetic, and mechanical surface properties. AFM offers sub-nano scale surface analysis and detection of adsorbed molecules, as well as manipulation of small structures for a wide range of lithography applications.

IBA is a cluster of analysis techniques that utilizes high energy (MeV) acceleration ion beams to probe elemental composition (including hydrogen and different isotopes) as a function of depth. The usual depth is of several microns with a typical depth resolution of 2-3 nanometers. These methods have certain advantages over conventional spectroscopies and offer unique capabilities as near-surface compositional probes. Such techniques are, in general, non-destructive and capable of yielding absolute concentrations, frequently at the sub-monolayer level. Particularly, IBA provides full information about material composition, matrix and impurity depth distributions and depth profiles for investigation of semiconductors and composite materials. This enables an estimation of their composition and damage for improvement or modification of their properties. Hydrogen and other light elements contained in different materials such as plastics, polymers, and bio-materials can be analyzed using this method. Quantitative information about film thickness, with high precision and without special pretreatment of the sample, including multilayers, is also possible.



## Bar-Ilan Institute of Nanotechnology and Advanced Materials (BINA)

### **AFM** - Atomic force microscope:

- Multimode Nanoscope V, Bruker AXS SAS, Santa-Barbara, CA
- Bio FastScan Bruker AXS SAS, Santa-Barbara, CA
- ICON, Bruker AXS SAS, Santa-Barbara, CA

**IBA** - 1.7MV tandem Pelletron ion accelerator (5SDH) equipped with charge exchange RF plasma source, National Electrostatics Corporation (NEC), USA. Analytical Endstation (RBS 400) and control software (HYPRA), Charles Evans, USA. Spectroscopic imaging ellipsometer, nanofilm, ER3SE  
Contact angle measuring and contour analysis instrument, DataPhysics, OCA 20

**XRD** - X ray diffractometer, Rigaku SmartLab XRD. A state-of-the-art powder and thin film diffractometer (can also be configured as a reflectometer) provides X-ray reflectivity measurements for thin film thickness, roughness and density determinations; full pole figures, and phi scans for crystallographic texture analysis; high-resolution rocking curves for film and crystal quality measurements; automated X-Y mapping of wafers; stress measurements; grazing incident angle diffraction for polycrystalline thin films.

**BINA's Fluorescence Facility** offers basic and advanced fluorescence measurements for a variety of applications in biomedical and biophysical research. The combined skills of our biologists, physicists and engineers enable precise visualization and quantitation, in keeping with the best measurements available today. The instrumentation in the Fluorescence Facility enables the performance of fluorescence excitation and absorption spectroscopy, time-resolved fluorescence, fluorescence correlation spectroscopy, fluorescence recovery after photo-bleaching, 3D-FRAP, FRET and single molecule FRET.

Imaging modules, stop flow time-resolved measurements and spectral imaging are also offered.

Fluorescence excitation and absorption spectroscopy, Cary 100

Time-resolved fluorescence, PicoQuant, MicroTime 200

**FCS** – Fluorescence correlation spectroscopy, PicoQuant, MicroTime 200

**3D-FRAP** – Fluorescence recovery after photobleaching, Micro-Imaging system

**FRET** – Förster resonance energy transfer, PicoQuant, MicroTime 200

PIE-FRET, Single molecule FRET, PicoQuant, MicroTime 200

**FLIM** – Fluorescence lifetime imaging, PicoQuant + confocal microscope, Olympus FV1000 Stopped flow time-resolved measurements, spectral imaging, Applied Spectral Imaging, SpectraCube.



Faculty of Medicine  
in the Galilee



## Faculty of Medicine in the Galilee

### **Dr. Orly Avni**

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Immunology, regulation of gene expression in the immune system in health and disease.

### **Dr. Miriam Bentwich**

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Medical ethics, bioethics.

### **Dr. Michael Blank**

E-mail: [Michael.Blank@biu.ac.il](mailto:Michael.Blank@biu.ac.il); [blankmic@gmail.com](mailto:blankmic@gmail.com)

Molecular and cellular cancer biology, E3 ubiquitin ligases and cancer.

### **Dr. Moshe Dessau**

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Structural biology of infectious diseases, virology, structural biology of infectious diseases. RNA viruses, entry and invasion of eukaryotic parasites.

### **Dr. Evan Elliot**

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Neurobiology, molecular neurobiology.

### **Dr. David Enshell-Seiffers**

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Developmental biology, the hair follicle as a developmental system to study epithelial-mesenchymal interactions and stem cell regulation, cell communication in brain function and mammalian behavior.

### **Dr. Meital Gal-Tanamy**

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Molecular virology, the processes by which pathogenic viruses evade immune surveillance.





## Faculty of Medicine in the Galilee

### **Dr. Hava Gil-Henn**

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Molecular biology, cytoskeleton machinery to understand migratory mechanisms.

### **Prof. Amnon Harel**

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Cellular biology, assembly and function of the nuclear pore complex, nuclear targeting of viruses, the connection between neurodegenerative disorders and nuclear transport.

### **Prof. Izhak Haviv**

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Cancer, personalized medicine, and diagnostic genomics.

### **Prof. David Karasik**

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Studies genetics of musculoskeletal disease; dissects the mechanisms underlying heritable disorders associated with aging such as osteoporosis, sarcopenia, and metabolic syndrome. Elucidates the molecular mechanisms regulating musculoskeletal and metabolic disorders and aging-related decline using zebrafish and cellular models.

### **Dr. Omry Koren**

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Microbiology, the gut microbiome in health and disease.

### **Dr. Milana Frenkel-Morgenstern**

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Drug targets in cancer cells, fusion transcripts, chimeric RNAs, next-generation sequencing methods, circulating cell-free DNA in blood plasma as early diagnostics in cancer, codon usage and cell-cycle regulation, non-optimal codon usage



## Faculty of Medicine in the Galilee

### **Dr. Itay Onn**

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Cohesin, condensin, SMC proteins, long-range chromatin interactions, cohesion, condensation, chromosome structure and organization, chromosome segregation, genomic instability, nuclear structure, cell cycle, yeast, Cornelia de Lange syndrome (CdLS), Robert's syndrome, cohesinopathy, genetic disorders, chromosomal instability in cancer.

### **Dr. Ron Piran**

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Diabetes and Regenerative medicine. Focus on regenerative mechanisms in the adult with a special focus on the regeneration of the insulin-producing pancreatic beta-cells.

### **Prof. Mary Rudolf**

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Public health, social accountability, parenting and health, childhood obesity.

### **Dr. Avraham Samson**

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Biochemistry pharmacology, bioinformatics, development of computational tools for drug design.

### **Dr. Meir Shamay**

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Viral oncology, studying the process of cancer development by tumor viruses, developing molecular tools for the detection of viral-associated malignancies.

### **Prof. Ran Tur-Kaspa**

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Hepatitis viruses and liver diseases.



## Faculty of Jewish Studies

The Zalman Shamir Bible Department

Department of Hebrew and Semitic Languages

The Israel and Golda Koschitzky Department of Jewish History and Contemporary Jewry

Department of Jewish Thought

The Martin (Szusz) Department of Land of Israel Studies and Archaeology

Joseph and Nahum Berman Department of Literature of the Jewish People

Department of Middle Eastern Studies

The Naftal-Yaffe Department of Talmud

Program of Jewish Art Studies in the Interdepartmental Division of Jewish Studies



## The Zalman Shamir Bible Department

### **Prof. Eliyahu (Elie) Assis**

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Biblical narrative, biblical poetry, prophecy.

### **Prof. Michael Avioz**

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Early biblical interpretation, mainly Josephus' Interpretation of the Hebrew Bible, Biblical historiography; Biblical Prophecy.

### **Dr. Joshua Berman**

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Pentateuch formation, Deuteronomy, political thought of the Hebrew Bible. Computer assisted analysis of Hebrew Scriptures.

### **Dr. David Elgavish**

E-mail: [David.Elavish@biu.ac.il](mailto:David.Elavish@biu.ac.il)

International relations and international law in the biblical period. The historical literature in the Bible and its parallels in the ancient Near East.

### **Prof. Esther Eshel**

E-mail: [Esther.Eshel@biu.ac.il](mailto:Esther.Eshel@biu.ac.il)

The late books of the Hebrew Bible, Jewish literature of the Second Temple period, including the early Jewish Exegesis. Epigraphy of the First and Second Temple periods.

### **Prof. (Em.) Joseph Fleishman**

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Biblical law, ancient Near Eastern law, comparative legal studies, the Book of Genesis and ancient Near Eastern Culture, the Return to Zion in 538-430 B.C.E. Family Laws in ancient Israel and in the ancient Near East, Parent and Child in ancient Israel and the ancient Near East.



## The Zalman Shamir Bible Department

### **Prof. Amos Frisch**

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Literary study of the Bible: biblical narrative, Jewish Bible exegesis from the 16th to 19th centuries, biblical kingship, the Book of Psalms.

### **Prof. (Em.) Moshe Garsiel**

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Literary theory of the Bible, art of biblical narrative history, historiography, historical geography of the Bible, the Bible in the light of archaeology, biblical theology, biblical names.

### **Dr. Leeor Gottlieb**

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Aramaic translations of the Bible, textual criticism of the Bible, the diachronic analysis of biblical Hebrew, the integration of computer applications in biblical research.

**Keywords:** Targum studies, Textual criticism.

### **Prof. Ed Greenstein**

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The Book of Job, the Book of Lamentations, literary theory and biblical literature, Canaanite (especially Ugaritic) literature, wisdom literature, northwest Semitic Languages, narrative in the ancient Near-East and in the Bible.

### **Dr. Jonathan Grossman**

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Literary theory, biblical narrative.

### **Dr. Lea Himmelfarb**

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Biblical accents (ta'amei hamikra) and The Masora, biblical exegesis, biblical historiography.



## The Zalman Shamir Bible Department

### **Dr. Jonathan Jacobs**

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Medieval biblical exegesis, the art of biblical narrative.

**Keywords:** Rashi, Rashbam, Ramban, Nahmanides, Bekhor Shor, Yosef Kara, Leqah-Tov.

### **Prof. (Em.) James Kaddurie (Kugel)**

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Modern biblical scholarship, the literature of the Second Temple Period, ancient biblical interpretation.

### **Prof.(Em.) Jacob Klein**

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Assyriology and biblical studies, Sumerian and Akkadian language and literature, Poetical books (Psalms, Proverbs, Job) and the Five Scrolls, relationship between ancient Mesopotamian culture and the Bible.

### **Prof. Eric Lawee**

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Jewish biblical scholarship in medieval and early modern times; Jewish thought and intellectual history.

**Keywords:** Bible, exegesis, Jewish thought, Medieval Spain.

### **Prof. Yosef Ofer**

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The Masora, accentuation of the Hebrew Bible, medieval biblical exegesis.

### **Dr. Nili Samet**

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Assyriology, Sumerology, Ancient Near Eastern Wisdom literature, Linguistic Dating of Biblical Materials, Late Biblical Hebrew, Book of Ecclesiastes.



## The Zalman Shamir Bible Department

**Dr. Yael Shemesh**

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Biblical narrative, prophetic stories, measure for measure in the Bible, ideological interpretation of the Bible (esp. feminist interpretation of the Bible, animal ethics), mourning in the Bible.

**Prof. (Em.) Uriel Simon**

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Biblical narrative, Jewish biblical exegesis in Spain.

**Prof. (Em.) Shmuel Vargon**

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Pre-exilic and ancient Near Eastern historiography, literary linguistics, historical aspects of the prophetic books, early 19th century Jewish exegesis (in particular Samuel David Luzzato).

**Dr. Yisca Zimran**

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Biblical prophetic literature, Biblical theology, Literary study of the biblical narrative.



## Department of Hebrew and Semitic Languages

### Dr. Noga Ayali-Darshan

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Interrelationships between Ancient Near Eastern civilizations (including Mesopotamian, Egyptian, Anatolian, Ugaritic, West-Semitic, and ancient Israelite, cultures); Ancient Near Eastern literature and religion; Assyriology.

### Dr. Dalia Cohen-Gross

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Modern Hebrew morphology and phonology, syllable structure, translation, stylistics, Hebrew as 2nd language, academic writing, e-learning.

### Dr. Rakefet Dilmon

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The subject of Dr. Dilmon's dissertation is: "Linguistic Differences Between Lie and Truth in Spoken Hebrew". Her research interests include Discourse analysis, Psycholinguistics, Criminological linguistics, and the language of fabrication. Dr. Dilmon also teaches linguistics and crime in The Hebrew University in Jerusalem.

**Keywords:** Discourse analysis, Psycholinguistics, Forensic linguistics, Language of fabrication.

### Dr. James Nathan Ford

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Aramaic incantation bowls and the dialects in which they are written (Jewish Babylonian, Aramaic, Mandaic and Syriac), Ugaritic philology.

**Keywords:** Aramaic incantation bowls, Aramaic magic bowls, Aramaic, Ugaritic.

### Dr. Noga Ilani

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Teaching Hebrew as a First and Second Language; Academic Writing; Stylistics; Hebrew Syntax; Discourse Analysis; E-learning and Computer-Mediated Instruction.





## Department of Hebrew and Semitic Languages

### **Prof. (Em.) Jacob Klein**

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Sumerology (including Sumerian language and literature, in particular Sumerian royal hymns), Assyriology (including Akkadian language and literature), Bible (including the books of Psalms, Proverbs, Job and the Five Scrolls).

### **Prof. Zohar Livnat**

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Syntax and semantics of Modern Hebrew, pragmatics, discourse analysis, rhetoric, language and law.

### **Dr. Adina Moshavi**

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Syntax, pragmatics and semantics of Biblical Hebrew, linguistic and rhetorical analysis of questions and answers in the Bible, biblical philology and interpretation, word order in Biblical Hebrew.

### **Prof. Malka Muchnik**

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Modern Hebrew, sociolinguistics, language and gender, bilingualism, language changes, word formation, foreign influences, psycholinguistics, translation, stylistics.

### **Prof. Michael Ryzhik**

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Medieval Hebrew, Rabbinical Hebrew, Hebrew in Italy, Judeo-Italian, The language of sermons, The Italian of the Church in the 16th century.



## Department of Hebrew and Semitic Languages

**Dr. Rivka Shemesh-Raiskin**

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Syntax, semantics, pragmatics, discourse analysis; verb classes; Mishnaic Hebrew.

**Dr. Tsvi Sadan (Tsuguya Sasaki)**

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Modern Hebrew, Yiddish, Esperanto, lexicography, onomastics, sociolinguistics

**Prof. (Em.) Ora (Rodrigue) Schwarzwald**

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Modern Hebrew morphology and phonology, linguistic comparison of Modern Hebrew to other language periods and other languages; linguistic study of Ladino (Judeo-Spanish) since the 16th century, especially in liturgical and Halakhic texts.



## The Israel and Golda Koschitzky Department of Jewish History and Contemporary Jewry

### **Dr. Dotan Arad**

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Judeo-Arabic studies, Cairo Genizah, late genizah documents, Mamluk studies, Ottoman studies, the Jews in Egypt, The Jews in Syria, The Jews of the eastern Mediterranean world in the Middle Ages, Jewish-Muslim relations, Karraite and Rabbanite relations.

### **Prof. Gershon Bacon**

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Political, social and intellectual history of Russian and Polish Jewry, 19th and 20th centuries, with special emphasis on the interwar period; History of Orthodox Jewry in Eastern Europe: history of the rabbinate; Jewish women's history in Poland; political and ideological movements in 19th and 20th century European Jewry.

### **Prof. Meir Bar-Ilan**

E-mail: [Meir.Bar-ilan@biu.ac.il](mailto:Meir.Bar-ilan@biu.ac.il)

Pseudepigrapha, Liturgy, Ancient Poetry, Hekhalot Literature, Literacy, Social History, Sectarianism, Medicine, Magic, Astrology, Numerology.

### **Prof. Judy Baumel-Schwartz**

E-mail: [Judy.Baumel@biu.ac.il](mailto:Judy.Baumel@biu.ac.il); [baumelj@gmail.com](mailto:baumelj@gmail.com)

Holocaust and State of Israel studies with emphasis on topics of gender, religion and commemoration; Orthodox Jewish women in the post-war era; Immigration and the 20th century Jewish world.

**Keywords:** Holocaust, State of Israel, Immigration, Commemoration, Memory, Gender, Religion.



## The Israel and Golda Koschitzky Department of Jewish History and Contemporary Jewry

### **Dr. Idan Breier**

E-mail: [Idan.Breier@biu.ac.il](mailto:Idan.Breier@biu.ac.il)

History of international relations in the ancient Near-East and the Bible in comparison with modern international relations; cultural studies of the Bible lands; philosophy of history.

**Keywords:** Biblical history, Ancient Near East history, Assyriology, International relations, Society and animals, Philosophy of history.

### **Prof. Kimmy Caplan**

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Jewish religious history in the 19th and 20th centuries; Topics of interest include religious trends, sermons and homiletic literature, and popular religion.

**Keywords:** Reform Judaism, Orthodox Judaism, Conservative Judaism, Haredi Society, Sermons, Homiletics.

### **Dr. Yitzhak Conforti**

E-mail: [Yitzhak.Conforti@biu.ac.il](mailto:Yitzhak.Conforti@biu.ac.il)

Zionism, Jewish Nationalism, Zionist History and Memory, Jewish and Zionist historiography, and the Jewish Yishuv in the Land of Israel 1882-1948.

### **Prof. Shmuel Feiner**

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Modern Jewish History in 18th-19th Century Europe; The Jewish Enlightenment Movement (The Haskalah); The Jews in Early Modern Europe; The Jews in Germany; Jewish Secularization; The Jewish Kulturkampf; Jewish women in modern Europe; Jewish Historiography.



## The Israel and Golda Koschitzky Department of Jewish History and Contemporary Jewry

### **Prof. Adam Ferziger**

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Intellectual and social history of Jewish religious movements and religious responses to secularization and assimilation in modern and contemporary North America, Europe, and Israel; The evolution of Orthodox Judaism, the interface of Jewish law and social contexts, and the history of the rabbinate.

**Keywords:** Rabbinate history, Social history, Secularization, Evolution of Orthodox Judaism.

### **Prof. Emanuel Friedheim**

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Ancient Jewish History in the Second Temple period and the Mishnah and Talmud era; Paganism in the Land of Israel; and in Talmudic Literature; Talmudic Realia; Ancient Jewish Music; Graeco-Roman Culture and the Jews; Ancient Medicine; Jewish Education in Ancient Era; Religious Dissidence; Jews and Judaism in Roman law.

### **Dr. Uriel Gellman**

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History and Culture of Polish Jewry. History of Hasidism. History of Orthodox Jewry in Eastern Europe. History of the rabbinate; History of Haskalah; Political and ideological movements in 19th and 20th century European Jewry; Magic and Modernity.

### **Prof. Aharon Gaimani**

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Study of Jewish Communities in Yemen.

### **Prof. Yaron Harel**

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Jewish History in the Middle East, Rabbinic literature, tradition and society, Zionism in the Middle East.



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Early modern Europe, Jewish-Christian relations, Jewish women's history, late medieval and early modern daily life social history, economic history, Protestant Reformation, history of print and autobiographical texts, charity.

### **Dr. Yigal Levin**

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The history of Israel during the Biblical and early Second Temple periods, especially as related to the archaeological and epigraphic records and how they are connected to the wider history of the ancient Near East; The society of biblical Israel; Biblical genealogies, and historical geography; The Bible as a source for the history of ancient Israel; The historiographical books of the Bible; The history of the Land of Israel during the Persian Period.

**Keywords:** Biblical history; Biblical archaeology; Biblical Israel, Persian period, Biblical genealogies.

### **Prof. David Malkiel**

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Jewish culture in Europe during the middle Ages and early modern era, focusing on Italy.

### **Prof. (Em.) Dan Michman**

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The Holocaust: historiography, ghettos, Jewish councils, final solution, religious Jewry, refugees and rescue, special features and dimensions as compared with other genocides, the impact of the Holocaust on world Jewry and on Israel; Western European Jewry in modern times, post-Zionism.



## The Israel and Golda Koschitzky Department of Jewish History and Contemporary Jewry

### **Prof. Moisés Orfali**

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History of the Jews and Crypto-Jews in Spain, Portugal, and the New World, History of the Jewish-Christian Debate in the Middle Ages, Social and Cultural History of the former Marrano Diaspora in Western Europe, The Sephardic Communities in the Orient and in the Ottoman Empire.

### **Prof. Ben-Zion Rosenfeld**

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Jewish History during the Second Temple, Mishna and Talmud period, and Graeco-Roman Culture, and the History and Culture of the Christian World.

### **Prof. Moshe Rosman**

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Polish-Jewish history, early Hasidism, women's history and historiography. Specialization in combining Polish archival sources with Jewish sources. Analyzing the applicability of postmodern postulates when writing Jewish history.

### **Prof. Adiel Schremer**

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Jews and Judaism in Late Antiquity, Marriage and Family, Heresy in Jewish History, Early Christianity, Rabbinic Literature, History of Halakha and Jewish Law, Legal Theory.

### **Prof. Zvi Zohar**

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The sociology, anthropology, and history of Jewish law and halakha, the culture and creativity of Sephardic-oriental rabbis in modern times, the history of the Jews of the Middle East in modern times.



## Department of Jewish Thought

### **Prof. Daniel Abrams**

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Jewish Mysticism and Kabbalah, with particular interest in textual theory, editorial practice, hermeneutics and gender.

### **Dr. Hanoch Ben- Pazi**

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Contemporary Philosophy and Modern Jewish Thought. Religious Studies, Critical Theology, Ethical Monotheism, Secular Judaism and Zionist Thinkers.

### **Dr. Avraham (Avi) Elqayam**

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Medieval Jewish philosophy, Jewish mysticism, Jewish messianism across the ages with particular emphasis on varieties of Sabbatean messianism, Sufi mysticism in Islam.

### **Dr. Yehuda Halper**

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Medieval and renaissance Jewish philosophy and the dynamic confluence of Arabic, Greek, Latin, and Hebrew intellectual traditions; Socrates, Plato, and Aristotle in Hebrew and Arabic; Jewish Averroism, science in medieval Jewish culture, and scientific interpretation of canonical religious texts.

**Keywords:** Medieval and Renaissance Jewish Philosophy, Intellectual traditions, Scientific interpretation of religious texts.

### **Prof. Steven Harvey**

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Medieval Jewish Philosophy.





## Department of Jewish Thought

### **Dr. Isaac Hershkowitz**

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Religious Responses to the Holocaust (with special attention to Kabbalistic and Hassidic responses), Religious Zionism (ideology, relations with the Israeli State), Philosophy of Halakha (with focus on modern rabbinic halakhic literature), Modern Rabbinic Thought.

### **Dr. George Y. Kohler**

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Modern Jewish philosophy and theology in Germany (1770-1918), especially the school of the Haskalah and early Reform movements of Judaism. Relations of Jewish and general philosophy. The philosophical thought of the "Wissenschaft des Judentums". Theological background of Jewish-Christian relations.

### **Prof. (Em.) Hanna Kasher**

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Medieval Jewish Philosophy.

### **Dr. Tsippi Kauffman**

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Foundational issues in Hasidism (worship through corporeality, ritual immersion, immanentism, Hasidic story, etc.), religion and gender.

### **Prof. Ephraim Meir**

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Modern Jewish philosophy and contemporary Jewish philosophy. Rosenzweig's philosophy, Levinas's ethical metaphysics and Jewish writings, Buber's and Heschel's Jewish thought, Jewish existentialism and Jewish dialogical philosophy, Jewish thought on the Shoah, interreligious theology.



## Department of Jewish Thought

### **Dr. Michael Schneider**

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Early Jewish mysticism and magic, pseudepigrapha, Philo as a mystic, hekhalot literature, Jewish roots of early Christology, angelology, messianism, traces of Jewish mysticism in diverse religious traditions – Gnostic, Zoroastrian, Mandaean, Manichaeism, Syriac. Judeo-Slavic cultural interaction in the middle Ages, Maimonides and mysticism, approaches to myth, magic, and mysticism, Gershom Scholem as a philosopher of myth.

### **Prof. Shlomo Sela**

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The reception of Greco-Arabic science by medieval Jewish society; Jewish attitudes toward the sciences in the Middle Ages; Jewish astrology and astronomy in the Middle Ages; Abraham Ibn Ezra's scientific corpus, with special reference to his astrological and astronomical oeuvre; scientific ideas in Abraham Ibn Ezra's and Gersonides' biblical exegesis.

### **Prof. Dov Schwartz**

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Medieval Jewish and Islamic philosophy; Astrology and Astral magic in Medieval Jewish Thought; Philosophical Circles in medieval Jewish thought; History of Ideas; Hasidic thought; Orthodox and Religious Zionist thought.



## Martin (Szusz) Department of Land of Israel Studies and Archaeology

### **Prof. David Adan-Bayewitz**

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*Dr. Simon Krauthammer Chair in Archaeology*

Guest Senior Scientist, Lawrence Berkeley National Laboratory 1997-2013

Archaeology and history of Hellenistic, Roman and Byzantine Judaea/Palestine; use of experimental approaches and new research methods to address archaeological and historical problems; the relationship between archaeological, analytical, and literary evidence; archaeological ceramics; Talmudic realia.

**Keywords:** Roman and Byzantine Judaea/Palestine, Archaeology, Archaeometry, Archaeological ceramics, Talmudic realia.

### **Dr. Nira Alperson-Afil**

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Prehistoric archaeology; lower and middle Palaeolithic periods, technology and typology of stone tools, early use of fire, and the evolution of human behavior; use of GIS software for spatial analyses of archaeological material at the Acheulian site of Gesher Benot Ya'aqov.

### **Prof. Zohar Amar**

E-mail: [Zohar.Amar@biu.ac.il](mailto:Zohar.Amar@biu.ac.il)

Natural History (particularly in Jewish sources), agriculture, material culture, and everyday life in the Middle Ages; the history of medicine and ethno pharmacology.

### **Dr. Shawn- Zelig Aster**

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Biblical History, Biblical Geography, historical background to biblical prophetic literature, Isaiah's Reactions to Assyria, connections between the Neo-Assyrian empire and biblical Israel, Neo-Assyrian Rule in Samaria.



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### **Dr. Kobi Cohen-Hattab**

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Pilgrimage and tourism to the Holy Land in the modern era, holy sites, tourism in historical cities, Zionism and the sea.

### **Prof. (Em.) Shimon Dar**

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Landscape archaeology and rural archaeology of the Classical Periods. Large scale excavations and surveys on Mount Hermon, Western Samaria, and Mount Carmel.

### **Prof. Avraham Faust**

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Archaeology and history of the ancient Near East and ancient Israel in the Bronze and Iron Ages (biblical archaeology), especially from an anthropological perspective (with a stress on Israelite society). Study of ethnicity and identity, the rural sector, social stratification, social and political organization, state formation processes, urbanization, cognitive archaeology, the relations between history (including the Bible) and archaeology, human-environment relations, site formation processes and survey. Methodology. Currently excavating at Tel 'Eton.

**Keywords:** Bronze and Iron Age Biblical archeology, Anthropology, Cognitive archaeology.

### **Prof. Yvonne Friedman**

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Peace processes between Christians and Muslims during the Crusades, conciliatory gestures, diplomacy, and non-verbal communications; Pilgrimage and tourism—medieval and modern. Medieval anti-Semitism- the Christian-Jewish polemic; Women in a fighting society; "Limmud"- the implementation of the concept of Jewish learning in different Jewish communities.



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### **Dr. Tamir Goren**

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The Jewish-Arab Conflict, Mixed cities and local government in Eretz Israel during the British Mandate, Historical Geography of Eretz Israel during the British period and in the first years of the state of Israel.

### **Prof. (Em.) Amos Kloner**

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Archaeology of Hellenistic, Roman and Byzantine Palestine and southern Levant; Archaeology of Jerusalem, Maresha, Bet Guvrin, Bar Kokhba War; Recent focus on publishing the archeological excavations findings at Horvat Rimmon, Maresha, Bet Guvrin, and sites in Idumaea.

### **Prof. Aren Maeir**

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Bronze and Iron Age (late 4th thru 1st millennia BCE) archaeology of the ancient Near East; biblical archaeology; applications of science in archaeology; the material culture of Philistia; the archaeology of the Sea Peoples and Philistines; ancient Aramean culture; weapons and warfare of the ancient Near East; interdisciplinary research in archaeology; the archaeology of collective memory; inter-connections between ancient cultures; environmental archaeology.

Director of the Minerva Center for the Relations between Israel and Aram in Biblical Times (RIAB).

**Keywords:** Biblical archaeology, Philistines, Arameans.

### **Dr. Avi Picard**

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The relationships between ethnic groups in Israel, immigration to Israel during the first decade, settlement and absorption processes. Religious Zionism.



## Martin (Szusz) Department of Land of Israel Studies and Archaeology

### **Prof. Eyal Regev**

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Social and religious history and social archaeology of the Second Temple period. Qumran and the Dead Sea Scrolls, early Christianity, the Hasmoneans and Herod, Pharisees, Sadducees, and other religious groups; social scientific study of Second Temple Jewish society.

### **Dr. Lilach Rosenberg**

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Specialization in the history of Israel in the modern period: Social history of Mandatory Palestine and Israel; Zionism and Religious Zionism; Women and gender in Mandatory Palestine and Israel: feminine identity, feminine leadership, the Hebrew family, marriage and motherhood and biographies of women in the era of national renaissance.

### **Dr. Jonathan Rubin**

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Crusader History, History of the Kingdom of Jerusalem, Medieval Intellectual History, Intercultural Exchanges in the Medieval Levant, Christian-Muslim-Jewish Relations in the Medieval Period, Medieval Pilgrimage, Medieval Medicine, Medieval Legal History, Medieval Geographical Knowledge, Latin Philology.

### **Prof. Ze'ev Safrai**

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Classical periods (Hellenistic, Roman and Byzantine periods), mainly from the Rabbinic point of view. Jewish community, economy of Roman Judea demographic process. A Sociological and historical commentary of the Mishna. Rural studies.



## Martin (Szusz) Department of Land of Israel Studies and Archaeology

### **Prof. Joshua Schwartz**

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Historical geography, settlement history, material culture of the Land of Israel during the Persian, Hellenistic, and Roman-Byzantine periods. Jerusalem and the Temple in the Second Temple period. Geography of early Christianity in the Land of Israel.

### **Prof. Ehud Weiss**

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Archaeobotany (Palaeoethnobotany): The study of past human activities via studies of the remains of plants in archaeological contexts- reconstruction of past humans' food and environments, past climate, agricultural practices, commerce and economic relationships, social stratification, habitat, food technology; plant domestication and the origin and spread of agriculture: the "founder crops" - the cereals, the pulses, oil and fiber plants - their wild progenitors, first domestication and spread from the core area outbound.

**Keywords:** Archaeobotany, Palaeoethnobotany, Botany, Archaeology, Archaeological science, Agriculture, Plant domestication, Origin of agriculture, Founder crops, Diet, Prehistoric archaeology, Bioarchaeology, Vegetation history, Anthropology of food, Environmental archaeology, Near-Eastern archaeology, Ancient DNA.

### **Prof. Boaz Zissu**

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The archaeology of Israel during the Hellenistic, Roman and Byzantine periods; Historical geography of Jerusalem and Judea; settlement patterns, private and public architecture and planning in the Hellenistic, Roman, and Byzantine Near East; Classical and Byzantine material culture, with an emphasis on the research of the coins, pottery and glass finds; archaeological recording and surveys methods; architecture, art, archaeology and stratigraphy of man-made caves; ancient agricultural technology in the Near East.

**Keywords:** Historical geography of Jerusalem and Judea, Hellenistic period, Roman Period, Byzantine Period.



## Joseph and Nahum Berman Department of Literature of the Jewish People

### **Dr. Rachel Albeck- Gidron**

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Modern Hebrew literature from the late nineteenth and early twentieth centuries in Europe and Israel. The works of Uri Nissan Gnessin and Yoel Hoffman. An interdisciplinary study of the interrelations among continental philosophy, modern and postmodern literature and Western visual art. The pronunciation of Hebrew prosody in the early twentieth century and the transition from Ashkenazi to Sephardic and Eretz Israel pronunciation.

**Keywords:** Hebrew literature, Comparative Literature, Interrelationship between philosophy, literature and art.

### **Prof. (Em.) Benjamin Bar-Tikva**

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History of liturgical poetry (piyyut), oriental piyyutim of the last centuries, piyyut and halakha, medieval Provençal and Catalan piyyutim.

### **Prof. Nathan Cohen**

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Cultural history of eastern European Jews in the nineteenth century and in the first half of the twentieth century with special interest in modern Yiddish literature.

### **Dr. Dov Cohen**

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The history of the Ladino (Judeo-Spanish) book; the Ladino press throughout the ages; the history of Sephardic Jewry and the exiles in the Diaspora; Ladino literature: written genres; Halakhic literature in Ladino; Sephardic genealogy; Sephardic paleography.





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Modern Hebrew literature and historiography; Prose of Hayim Hazaz; Thematology of the Jewish story: from the Bible to modern literature; The pious Jewish story in the nineteenth century in Baghdad and in Islamic countries.

### **Dr. Moshe Goultshin**

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Modern Hebrew literature and poetry; Culture and literary criticism: primarily focused on modern Hebrew and Israeli culture's interconnections with Jewish and Christian theology (especially Protestant: between Schleiermacher and Tillich); Political theology, ethics and ideology issues; hermeneutics, phenomenology and criticism of culture.

### **Prof. Roman Katsman**

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A history of aesthetics, history and myth: the work of Agnon, rhetoric and sincerity in Agnon, languages of the modern literature, body, myth, city: from Yaakov Steinberg to Etgar Keret, gestures in the modern literature, poetics, a theory of poetry, Shmuel Yosef Agnon and Chaim Hazaz.

### **Prof. Dov- Ber Kotlerman**

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Yiddish language and culture, old Yiddish, history of the Jews in Eastern Europe and the USSR, Jews in the Far East, Jewish onomastics, Jewish journalism and press, Sh.Y. Agnon's works, Yiddish literature and theater, Jewish early cinema.



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### **Prof. Rella Kushelevsky**

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The Hebrew story in the Middle Ages; The Hebrew story in medieval Ashkenaz; Multi-version stories in Hebrew story collections (thematology and folklore); the poetics and thematic of Rabbinic aggadic narratives in the Talmud and midrash - application of reader-oriented hermeneutics.

**Keywords:** Hebrew tales, folklore, Thematology, Medieval tales, Popular stories, Story collections, Ashkenaz, Hermeneutics, Reader-oriented hermeneutics, Iser, Ricoeur, Talmud, Midrash, Poetics, Middle Ages.

### **Prof. Avidov Lipsker**

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Modern Hebrew Literature : In his monographic studies, Lipsker intentionally dealt with "marginal" authors, out of a new historiographic perspective, according to which the "average taste" and, at times even the graphomaniac writings, represent the style-bar and literary taste from which the contemporary poetic styles can be evaluated and measured. Ecological discourse on literature: Lipsker has developed a new historiographic model which he named Ecology of Literature. This model refers to literary texts as items within a widespread cultural system not necessarily textual, but also plastic-visual and cultural climate. Thematology of the literature of the Jewish people: Together with Prof. Yoav Elstein - founder of the methodology 'Thematology of Jewish Narrative' they both established the Encyclopedia of the Jewish Story.

**Keywords:** Hebrew Literature of the third and fourth aliyot, Hebrew Modernism, Poets in social context.

### **Prof. Zvi Mark**

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Hasidic literature.



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Modern Hebrew and Yiddish literature.

### **Prof. Shmuel Refael**

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Judeo-Spanish (Ladino). Sephardic folklore and literature, Sephardim and the holocaust: literary aspects.

### **Dr. Revital Refael-Vivante**

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Medieval Hebrew literature, secular Hebrew literature in Spain, poetry - maqama and rhymed prose, fables, Hebrew literature in the Balkans.

### **Dr. Claudia Rosenzweig**

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Old Yiddish Literature, Early Modern Yiddish Culture, Hebrew Medieval Literature, Judaeo-Italian, Italian Literature in the Middle Ages and the Renaissance, Philology.

### **Dr. Avi Shmidman**

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Literary and linguistic aspects of early Palestinian poetry, literary and linguistic aspects of medieval Spanish Hebrew poetry, the development of the Jewish liturgy, especially the grace after meals.

### **Dr. Vered Tohar**

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Hebrew literature, Jewish literature, narratology of the Jewish story, reception of the Jewish story, the Hebrew book in the 16th-17th century, Hebrew children's literature, personal narrative analysis.



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Modern Jewish literature.

**Prof. Tamar Wolf-Monzon**

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Poetics of Uri Zvi Grinberg; Poetry of the Third Aliyah: Linguistic, stylistic and socio-literary aspects; Poetry and politics, Literary work of Ya'acov Orland, Hebrew poetry in the 20th century.



## Department of Middle Eastern Studies

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Modern Turkey, Ottoman/Turkish Jewry, Anti-Semitism in Turkey, Turkish-Israeli relations, Turkish religious movements with emphasis on the Islamic-spiritual Gülen Movement.

**Keywords:** Turkey, Turkish Islamic Movements, Fethullah Gülen, Anti-Semitism in Turkey, Turkish-Israel relations.

### **Dr. Yehuda Balanga**

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Military and political involvement of the superpowers, the United States and the Soviet Union, in the Middle East (including in the Arab-Israeli conflict). Egyptian and Syrian policies (regime, military, and society) that make a decisive contribution to the shape of the region, against the background of the superpowers' involvement in the Middle East.

**Keywords:** Military and political involvement of the superpowers, The United States and the Soviet Union in the Middle East, Egyptian and Syrian policies.

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The Arab-Israeli conflict; UN involvement in the Arab-Israeli conflict; the Palestinian refugee problem; terrorist organizations in the Middle East.

**Keywords:** Arab-Israeli conflict.

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Urbanization in the Mediterranean area during the medieval period, Islamization and Arabization, medieval Mediterranean military history - battlefield reconstruction.

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Palestinian politics, the evolution of Middle East states, nationalism and religion in the Middle East, security studies related to the Middle East, Israel's Arab citizens.



## Department of Middle Eastern Studies

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Academic Head, on behalf of Bar-Ilan University, of the Academic College on the  
Sea of Galilee.*

*Head of Project on the Jews of Egypt across Time: From Hellenism to the End of  
the 20th Century – under the auspices the Aladin Porject and the Patronage of  
UNESCO in Paris and the Elysée Palace*

Israel and the Arab world; 19th and 20th century Maghreb; modern Jewish history  
in the Middle East, Maghreb and France; French politics, the Maghreb and Islam;  
Israeli Society since 1948; Islam in Europe; Inter-Arab Politics; Jewish Muslim  
Relations; the Effects of Globalization on the Arab World.

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Social, economic, and military history of the Middle East in the high middle Ages –  
Egypt and Syria from the 9th to the 12th centuries; Islamization, administration of  
justice in medieval Egypt, 7th-12th centuries, charity and charitable institutions.  
Publications: *Medieval Encounters*, (2015).

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Modern Iran, medieval Sunni jurisprudence, classical Muslim attitudes toward Jews  
and Judaism.

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The oil industry and energy markets and policy, Saudi Arabia and the Arab Gulf  
States.



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The Ottoman Empire, minorities in the Ottoman Empire, Kurds, the former Soviet Central Asian Republics.

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History of Islam. The History of the Middle East, from Late Antiquity until the Middle Ages, especially the relationships between the Abrahamic Religions.

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Modern history of the Middle East; Arab nationalist movements; formation of the modern Arab states; the Middle East in World War I; Syria and Iraq; intelligence in the Middle East; Arab-Israeli conflict, Canada and the Middle East; 1948 war; Deir Yassin.

### **Prof. Joshua Teitelbaum**

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Democratization and liberalization in the Middle East; Saudi Arabia tribes in the Middle East; state and society in the Middle East; Palestinian nationalism; the military and society in the Middle East; the Arabian Peninsula.



## Naftal-Yaffe Department of Talmud

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Liturgy and festivals in Jewish law and literature; customs; critical edition of Rashi's commentary on the Talmud.

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The Babylonian Talmud; stories in rabbinic literature; rabbinic lexicography.

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Aggadah and Midrash.

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Rabbinic magic and mysticism; history of prayer; the minor tractates; medicine in rabbinic literature; astrology and numerology in rabbinic sources.

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Babylonian Talmud (terminology and chronology); Saboraic literature.

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Babylonian Talmud, modes of legal interpretation and decision-making; the Babylonian rabbinic academies, especially history and chronology.





## Naftal-Yaffe Department of Talmud

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Medieval Rabbinic Literature; Medieval Jewish Law; Medieval Jewish History; History of the Hebrew Book; Charity in the Medieval Jewish communities.

### **Prof. David Henshke**

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Tannaitic Halakhah and its history; Maimonides.

### **Dr. Binyamin Katzoff**

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Tannaitic literature; geonic literature; history of Halakhah.

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Midrashic literature; exegetical methodology from Second Temple times to the end of rabbinic literature; Intellectual history of Judaism in the Hellenistic-Roman Period; textual criticism of rabbinic literature.

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Palestinian Talmud (text, language, redaction, interpretation); Modes of rabbinic thought; History of talmudic Halakhah; the modern analytic school of rabbinics.

### **Prof. (Em.) Joseph Rivlin**

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Jewish family law; legal documents from the Cairo Geniza; Wills and inheritance in Jewish law; Bills and contracts in Jewish law; the Vilna Gaon and his disciples.



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History of Halakhah; medieval rabbinic literature; Jews in medieval Provence; Jews in medieval England.

**Dr. Mordechai Sabato**

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The Babylonian Talmud; Tannaitic Midrash.

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Qumranic literature; History of Halakhah.

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Medieval rabbinic literature.



## Program of Jewish Art Studies in the Interdepartmental Division of Jewish Studies

### **Dr. Sara Offenberg**

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Jewish-Christian relations in art and literature; the image of the Jew in art and literature; early Kabbalah and German Pietists; Piyyut Commentary; Hebrew illuminated prayer books.

**Keywords:** Art History, Medieval Studies, Jewish Thought, Illuminated Manuscripts, Anti-Semitism.

### **Dr. Mirjam Rajner**

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Modern Jewish art and visual culture; Marc Chagall, Russian Jewish Avant-garde art; 19th century East European Jewish artists; Holocaust art; Jewish artists in interwar Yugoslavia; Jewish Orientalism in modern art; Jewish identities in modern art.

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Jewish art, Jewish visual culture in Europe, synagogue art and architecture, depictions and descriptions of synagogues, iconography of Jewish art, symbols in Jewish art, symbols of divine presence in Jewish art, aspiration for knowledge as reflected in Jewish art, utopias in art, Biblical imagery, Jewish rituals and ceremonies, medieval synagogues, early printed Jewish books, Hebrew printed books, Hebrew script in Christian – Jewish relations in art.



## Faculty of Humanities

Department of Arabic

Department of Classical Studies

Department of Comparative Literature

Department of English Literature and Linguistics

Department of French Culture

Department of General History

Department of General Philosophy

Department of Information Science

Department of Music

Department of Translation and Translation Research



## Department of Arabic

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Islamic theology; Islamic mysticism, and Qur'anic studies; Mu'tazilite and Zaydite thought; al-Ghazali and Ibn al-Arabi; Traditionalism and rationalism In Islam.

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Modern Arabic poetry; the ideological text; influence of the popular press on the development of modern Arabic literature; the formation and development of genres in 19th and 20th century Arabic; Western-Eastern - Arab encounter and its influence on the modern Arabic literary text.

### **Prof. David Doron**

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Medieval and Neo-Judeo-Arabic – mainly North African Bible translations.

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Modern Arabic literature; Palestinian literature; Palestinian women writers; Culture and literature in the West Bank and Gaza Strip.

### **Dr. Livnat Holtzman**

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Islamic theology, Islamic jurisprudence, and classical poetry: the writings of Ibn Qayyim al-Jawziyya; Anthropomorphism in traditionalist Islam; Theological didactic poetry.

### **Dr. Almog Kasher**

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Medieval Arabic grammatical tradition; theories, concepts, and terminology of the Arab Grammarians; early history of this tradition.



## Department of Arabic

### **Dr. Mordechai Kedar**

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Rhetoric in Arab journalism, gender, and society, and Islamic movements; Tribalism in the Arab world.

### **Prof. Tzvi Langermann**

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Islamic and Jewish science and philosophy in the Middle Ages; Ibn Kammūna's *Kalimāt wajīza*; Averroes' *On the Theriac*; Galen in the Hebrew and Arabic traditions; The thoughts of Moses Maimonides.

### **Prof. Eliezer Schlossberg**

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Biblical exegesis of Rav Saadia Gaon; Karaite Biblical exegesis; Yemenite "Midreshei–Agada": an Anonymous Yemenite Midrash-Torah (dated 1525) and the Commentaries of R. Avraham ben Shlomo on the Prophets. Middle-Ages and modern polemics between Jews and Moslems.

### **Dr. Yakov (Koby) Yosef**

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Ethnic groups, social relationships and dynasty in the Mamluk Sultanate (1250-1517); Political and social history of the Mamluk Sultanate, Islamic political thought and Islamic law.



## Department of Classical Studies

### **Dr. Gabriel Danzig**

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Ancient moral and political philosophy, Socrates, the writings of Xenophon, Plato, and Aristotle, Jewish philosophy and thought, historiography, literature.

### **Prof. Daniela Dueck**

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Studies ancient Greek and Roman geography, both its texts and its scope. Specifically expertise in the study of the Hellenistic geographer and historian Strabo of Amasia. Interested also in fragments of lost geographical works. As part of these research directions studies also popular notions of space and geographical knowledge as they are reflected in both written and material sources. This interest pertains also to ideas of literacy and illiteracy in Classical antiquity.

**Keywords:** Cultural history of Ancient Greece and Rome, Ancient geographic narrative, Geographic conceptions in Ancient Greece and Rome.

### **Prof. (Em.) Ranon Katzoff**

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Papyrology; Roman law; Rabbinics.

### **Dr. Lisa Maurice**

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Roman comedy, ancient drama, ancient education, the reception of the ancient world in modern popular culture, in popular fiction and in children's literature, Greek and Latin literature.

### **Prof. (Em.) David M. Schaps**

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Ancient Greek economic and social history, Greek and Latin literature, linguistics, Ancient law.



## Department of Comparative Literature

### **Prof. Thierry J. Alcoloumbre**

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Interactions between Judaism and ancient Greek culture (philosophy, religion and literature), including: Greek mythology compared with Talmud and Midrash Aggadah; the Aristotelian legacy in the works of Maimonides and the Maharal of Prague; Myth and midrash in modern and postmodern times. French modern Jewish thinkers. Levinas, Neher, Askenazi-Manitou, Claude Vigée.

**Keywords:** Comparative literature, Judaism, Ancient Greek culture, Mythology, Midrash, French modern Jewish thinkers.

### **Dr. Sharon Aronson-Lehavi**

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Theatre and performance studies: medieval theatre; modern theatre; Israeli theatre and performance; performance theory.

### **Dr. Anat Koplowitz-Breier**

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The interaction between poetry, the Bible and the myth; The epic: from antiquity to the German Middle Ages; 20th century poetry: focusing on German-Jewish and Anglo-American Jewish poets; The intertextual relations between Western and Hebrew poetry; Detective fiction.

### **Prof. Rina Lapidus**

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Russian influences on Modern Hebrew literature. Jewish women writers in the former Soviet Union.

**Keywords:** Rabbinic literature of the Talmudic period, Hebrew and Yiddish literature of the 19th and the 20th centuries, Russian and German folklore, Russian literature, Literature of the Second World War, Poetry concerning death, Theories in the field of literary research: Russian formalism and structuralism.





## Department of Comparative Literature

### **Dr. Yaakov Mascetti**

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Pre-scientific discourses and literature; alchemy and poetry; early-modern women writers; Protestant theological discourses and women poets; Miltonic theology and poetry; metaphysical poetry.

### **Dr. Shlomy Mualem**

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The interrelations between philosophy and literature; aesthetics; literary theory; Jorge Luis Borges; Plato's philosophy; Wittgenstein's Philosophy; comparative philosophy: east and west; Zen Buddhism; Literature and Kabbalah; comparative mysticism.



## Department of English Literature and Linguistics

### Literature

**Dr. Ilana Blumberg**

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Victorian literature; ethics and economics; nineteenth-century Christian culture; secularisation and postsecularisation. Life writing; creative nonfiction; boundaries between fiction and nonfiction.

**Prof. Evan Fallenberg**

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Creative writing – novels, stories, plays; literary translations of fiction and drama; the compilation of resource materials and teaching strategies for literary training; Translators and creative writers.

**Dr. Daniel Feldman**

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Holocaust literature, children's literature, play studies, literary theory, memory and amnesia, disaster writing in Polish, German, and Jewish cultures and literatures, subjectivity and epistemology in modern verse, Jewish humanities.

**Prof. Susan Handelman**

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The relation of Jewish thought and literary criticism; the graphic novel; visual rhetoric--the relation of text and image; literary theory and teaching literature; literary approaches to Midrash; food and literature studies



## Department of English Literature and Linguistics

### Literature

#### **Prof. William Kolbrener**

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John Milton and early modern poetry, history, politics and theology, as well as early Modern proto-feminism, particularly the work of Mary Astell and her contemporaries. Seventeenth and eighteenth-century conceptions of modernity – from the Cambridge Platonists to Isaac Newton to the Earl of Shaftesbury. The work of Joseph Soloveitchik; the relationship between rabbinics and literary theory, the relation between Talmudic hermeneutics and psychoanalysis.

**Keywords:** Creative nonfiction, 17th Century Literature History, Theology, Talmudic hermeneutics, Psychoanalysis.

#### **Prof. Michael Kramer**

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American literature (Jewish American literature in particular), Jewish literature, religion and literature, and creative writing; Jewish and Jewish American literary historiography and the conceptualization of assimilation in Jewish American thought and writing. Promotion of Jewish creative writing in Israel and in America through Kisufim: The Jerusalem Conference of Jewish Writers and the Sami Rohr Institute for Jewish Literature, annotated translation of S.Y. Agnon's "And the Crooked Shall be Made Straight," a critical history of Jewish American literary criticism.

**Keywords:** Jewish American literature, Religion and Literature, Creative Writing, Jewish American thought and writing.

#### **Prof. Kinereth Meyer**

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Literary modernism; modern drama; modern poetry; literature and ethics.



## Department of English Literature and Linguistics

### Literature

#### **Prof. Jeffrey Perl**

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Modernism and postmodernism in Anglophone and French literatures; T.S. Eliot, Joyce, Pound, Yeats, Beckett, and Mallarme; the history of criticism, taste, and philosophical aesthetics; applications of the concept of charity (caritas) in historiography, philosophy, and scholarship.

#### **Dr. Yael Shapira**

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Eighteenth-century British literature and culture, the dead body in the eighteenth century novel; questions of gender, the relationship between popular and canonical literature.

#### **Dr. Marcela Sulak**

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Twentieth century American literature, modernism, poetry and poetics, prosody, hybrid literary forms and literature, feminism, and translation theory.



## Department of English Literature and Linguistics

### Linguistics

#### **Prof. Sharon Armon-Lotem**

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Language acquisition by bilingual children who have been diagnosed for Specific Language Impairment (SLI), monolingual and bilingual typical acquisition in children with SLI; child heritage language; linguistic and cognitive phenomena which characterize language impairment and bilingualism in children; the gap between the linguistic abilities of children and those of adults, all this against the background assumption that there is an innate language capacity which children make use of in the acquisition of language; the identification of SLI indicators in English-Hebrew and Russian-Hebrew bilingual children as well as children from an Amharic speaking background; language of bilingual children from high and low SES.

**Keywords:** Bilingual specific language impairment (BISLI), Early bilingualism, Child second language acquisition.

#### **Dr. Michal Ben-Shachar**

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Neurobiological infrastructure underlying human language systems; application of neuroimaging techniques such as functional MRI and diffusion tensor imaging to understand the structural and functional properties of these brain systems, and relate them to specific linguistic functions in healthy and clinical populations; ongoing studies include (a) the neural basis of stuttering, (b) reading pathways in adults and children, (c) language systems in patients with tumors, multiple sclerosis, or stroke, (d) white matter and cognitive development in children born prematurely and (e) white matter pathways underlying sensorimotor synchronization and speech processing.

**Keywords:** Cognitive Neuroscience, Language, Reading, diffusion MRI, DTI, fMRI.



## Department of English Literature and Linguistics

### Linguistics

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Morphosyntactic features and their formal representation; syntactic agreement and its relation to semantics; The internal syntax of noun phrases; the syntax of quantifiers, numerals and other determiners; grammatical number and syntactic plurality; The syntactic encoding of definiteness; Case and differential object marking; Features and under specification; Feature-based grammar formalisms; Experimental syntax and quantitative research methods in theoretical linguistics; Variation and gradability in syntax.

**Keywords:** Syntax, Grammatical features, Experimental methods for identifying empirical data.

#### **Dr. Yael Greenberg**

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Formal semantics, The syntax-semantics interface and the semantics-pragmatics interface, with emphasis on the following types of constructions and phenomena: Generic sentences, modal constructions, vagueness and approximation across domains, measurement, gradability and additivity in the nominal and verbal domain, focus and alternative sensitivity, scalar operators in the propositional and discourse domains, meta-linguistic constructions.

**Keywords:** Hebrew linguistics, Formal semantics, Semantics-pragmatics interface, Syntax-semantics interface.

#### **Dr. Lior Laks**

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Morphology and its interface with other components of the grammar: phonology, the lexicon and the syntax; Word formation processes; Semitic languages, language contact; Productivity and gaps in word formation; Language variation and change; Diglossia in Arabic and the grammatical differences between Modern Standard Arabic and colloquial Arabic (Jordanian and Palestinian); the effects of diglossia on language development and change.

**Keywords:** Morphology, Phonology, Semitic languages, Standard and colloquial Arabic.



## Department of English Literature and Linguistics

### Linguistics

#### **Prof. Susan Rothstein**

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The relation between syntactic structures and semantic interpretation; cross linguistic variation in the syntax/semantics interface. Cross linguistic expressions of counting and measuring; the semantics of aspect, the semantic basis of aspectual distinctions, and the cross linguistic variation in the expression of these distinctions.

**Keywords:** Theoretical syntax, Theoretical semantics, Cross linguistic variation.

#### **Prof. Elinor Saiegh-Haddad**

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Diglossia and language and reading acquisition in Arabic; Reading development and difficulties in bi-dialectal and bilingual contexts; Phonological and morphological processing skills in reading; Reading in a second language; L1-L2 relationships in reading development; Language acquisition and SLI in Arabic.

#### **Prof. Joel Walters**

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Bilingualism/code switching; narrative development in bilingual children and adults; Language impairment in bilingual preschool children and adults with aphasia; Sociopragmatics: social identity and language acquisition in language minorities.

#### **Dr. Galit Weidman Sassoon**

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Language and cognition. Conceptual differences between adjectives and nouns affect their acceptability in linguistic constructions, their usage (as revealed in large corpora), their processing, and their neural correlates (as revealed in ERP research); Additional experiments investigate the ways children and adults classify entities under adjectives and nouns.

**Keywords:** Language Cognition, Psycholinguistics of semantics and pragmatics.



## Department of French Culture

### **Prof. Silvia Adler**

E-mail: [Silvia.Adler@biu.ac.il](mailto:Silvia.Adler@biu.ac.il)

French Linguistics, Ellipsis, strategies of linguistic economy, simple and compound prepositions, scalarity, intensification, prepositional quantifiers, argumentation in comics, general nouns, tautology, litotes.

### **Dr. Tovi Bibring**

E-mail: [Tovi.Bibring@biu.ac.il](mailto:Tovi.Bibring@biu.ac.il)

Didactic and exemplary literature, fable-lore, cultural migrations in Medieval France, medieval courtly and popular culture, medieval misogyny, masculinity studies in medieval literature, critical manuscript editing, Intersections of the sacred and the profane in 12th -15th French literature.

**Keywords:** Medieval, Courtly, Fable, Fabliaux, Troubadours, Trouvères, Berechiah ha-naqdan, Marie de France, Arthuriana.

### **Dr. Isabelle Dotan**

E-mail: [Isabelle.Dotan@biu.ac.il](mailto:Isabelle.Dotan@biu.ac.il); [isadotan@gmail.com](mailto:isadotan@gmail.com)

French Language Didactics & Applied Linguistics – including ICT, prosody, difficulties in French tenses, French Civilization – including visual arts, gastronomy, myths, and stereotypes in historical contemporary France. Contemporary Francophone literature – including Sylvie Germain, Jean-Claude Pirotte, Andrei Makine and themes of pain, happiness, loss, and exile.

### **Dr. Simone Grossman**

E-mail: [Simone.Grossman@biu.ac.il](mailto:Simone.Grossman@biu.ac.il)

French and Quebecois modern and contemporary literature. Interaction between modern and postmodern art and literature in France and Canada (Quebec, Franco-Ontarian and English), the short story and ecology in literature.





## Department of French Culture

### **Prof. (Em.) Roselyne Koren**

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Rhetoric and ethics : conceptualization of an ethics of discourse, axiological rationality in argumentation, the theory of argumentation of the Perelmanian new rhetoric, enunciative responsibility, accountability for judgment of facts and value judgments, rhetoric of analogy, comparison and axiological metaphors. Rhetoric of the French traditional written press, rhetoric of the French “pure players” on the web, rhetoric of political discourses and of the act of naming the terrorist and terrorism. The ethical commitment of the discourse and argumentation analyst: controversy about objectivity and the act of taking a stance.

**Keywords:** French media rhetoric, Discourse analysis.

### **Prof. Gary D. Mole**

E-mail: [Gary-David.Mole@biu.ac.il](mailto:Gary-David.Mole@biu.ac.il)

French and Francophone literature, culture, and thought of the 20th and 21st centuries, with particular emphasis on the relations between literature, violence, and modern warfare. French combat poetry of the First World War, Francophone Jewish poetry of the Shoah, the narrative strategies involved in the representation of violence, war, and genocide in postcolonial Francophone Sub-Saharan African fiction, and the writings of Maurice Blanchot, Edmond Jabès, and Emmanuel Levinas.

**Keywords:** Modern and Contemporary French and Francophone Literature Poetry, Violence, Warfare, First World War, Shoah.

### **Dr. Galia Yanoshevsky**

E-mail: [Galia.Yanoshevsky@biu.ac.il](mailto:Galia.Yanoshevsky@biu.ac.il)

Contemporary French literature and discourse analysis; sociology of literature; media and literature; argumentation and rhetoric. The narrative interview, life stories, the literary interview, performance and authorship, literature and media (authors and internet), decision-making, and trust.



## Department of General History

### **Dr. Doron Avraham**

E-mail: [Doron.Avraham@biu.ac.il](mailto:Doron.Avraham@biu.ac.il)

Modern German history: political philosophy, nationalism, race, and minorities in 19th and 20th century Germany, National Socialism and Fascism.

**Keywords:** Nationalism, Germany, Jews, Nazism, Fascism, Ideologies, Politics, Racism, Anti-Semitism.

### **Prof. (Em.) Ella Belfer**

E-mail: [Ella.Belfer@biu.ac.il](mailto:Ella.Belfer@biu.ac.il)

Jewish political tradition, history and literature, Russian radical thought, cultural and religious Jewish history, national identity.

### **Prof. Daniela Dueck**

E-mail: [Daniela.Dueck@biu.ac.il](mailto:Daniela.Dueck@biu.ac.il)

Studies ancient Greek and Roman geography, both its texts and its scope. Specifically expertise in the study of the Hellenistic geographer and historian Strabo of Amasia. Interested also in fragments of lost geographical works. As part of these research directions studies also popular notions of space and geographical knowledge as they are reflected in both written and material sources. This interest pertains also to ideas of literacy and illiteracy in Classical antiquity.

**Keywords:** Cultural history of Ancient Greece and Rome, Ancient geographic narrative, Geographic conceptions in Ancient Greece and Rome.

### **Dr. Yaniv Fox**

E-mail: [Yaniv.Fox@biu.ac.il](mailto:Yaniv.Fox@biu.ac.il)

Cultural history of late antiquity and the early middle ages in the West; Development of Western monasticism and patronage of monastic foundations; Relationships between religious communities; Royal religious policy as a tool of statecraft, especially in the Merovingian kingdoms; Textual transmission of early medieval historiography.



## Department of General History

### **Prof. (Em.) Moshe Gat**

E-mail: [Moshe.Gat@biu.ac.il](mailto:Moshe.Gat@biu.ac.il)

British foreign policy in the 20th century, European history in the 20th century with emphasis on Britain and Italy, the great powers in the Middle East, Iraqi Jewry in the 19th and 20th centuries.

### **Prof. (Em.) Haim Genizi**

E-mail: [Haim.Genizi@biu.ac.il](mailto:Haim.Genizi@biu.ac.il)

Radicalism in the 1930s in the United States; the attitude of Churches in the United States towards Jewish Holocaust survivors and displaced persons; Protestant churches in Canada and their attitude towards the Holocaust and the State of Israel; the Jewish religious national movement in Hungary during the Holocaust and its aftermath.

**Keywords:** Churches and the Holocaust, Refugees in America, Bnei Akiva in Hungary.

### **Prof. Myriam Greilsammer**

E-mail: [Myriam.Greilsammer@biu.ac.il](mailto:Myriam.Greilsammer@biu.ac.il)

Social and anthropological history; Art history and history of the mentalities in the Low Countries during the Middle Ages and early modern times (12th-17th centuries); women's history, gender history, history of maternity, gynecology and marriage; Low Countries history (13th-17th century), particularly the Lombards, Protestantism, and Calvinism; law, and witchcraft.

### **Dr. Yosef Liebersohn**

E-mail: [Yosef.Liebersohn@biu.ac.il](mailto:Yosef.Liebersohn@biu.ac.il)

History of ideas, intellectual history, classical philology, ancient and Hellenistic philosophy.



## Department of General History

### **Dr. Hilda Nissimi**

E-mail: [Hilda.Nissimi@biu.ac.il](mailto:Hilda.Nissimi@biu.ac.il)

Jewish political tradition during the British mandate period, especially the paramilitary and underground groups of Haganah, Etzel, and Lehi, and their attitude towards the Jewish tradition. Decolonization in Kenya. The main research interest has been the Mashhadi community, which is an ex-crypto-faith community from north Iran. The memory practices and social mechanisms they have developed for their survival as “New Moslems” while staying loyal to their Jewish identity, have proved similar to that of other crypto-faith communities, such as the Spanish and Portuguese Judaizing “New Christians”, and the Huguenots. Currently working on the visualization of Jewish identities in museums, in Israel and abroad.

**Keywords:** Memory practices, Museums, Underground groups, Jewish political tradition, Decolonization, Kenya, Haganah, Etzel, Lehi, Mashhad.

### **Dr. Zohar Maor**

E-mail: [Zohar.Maor@biu.ac.il](mailto:Zohar.Maor@biu.ac.il)

Cultural and intellectual history of modern central Europe; nationalism; secularization and neo-religiosity; anti-rationalistic culture.

### **Prof. Claude Stuczynski**

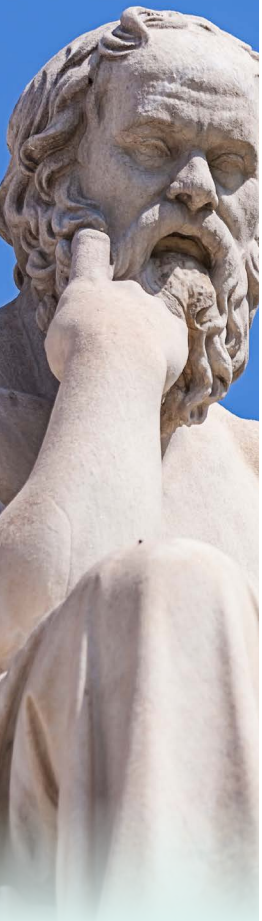
E-mail: [Claude.Stuczynski@biu.ac.il](mailto:Claude.Stuczynski@biu.ac.il)

Iberian inquisition, converso phenomenon, medieval and early modern Spain and Portugal, early modern first encounters between Europeans and non-Europeans.

### **Dr. Tal Tovy**

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US military history; Vietnam War; Cold War; Counterinsurgency; Western Military art and Science; History of Air Power; Geostrategic Studies.



## Department of Philosophy

### **Dr. Alon Chasid**

E-mail: [alon.chasid@gmail.com](mailto:alon.chasid@gmail.com)

Philosophy of mind and perception, especially the debate between disjunctivism and intentionalism; Pictorial experience; imagination; epistemology, especially the question of self-knowledge; cognitive 'top-down' influences in perceptual experience (cognitive penetrability); analytic aesthetics.

**Keywords:** Pictorial experience, Imagining, Philosophy of mind, Philosophy of perception, Disjunctivism, Intentionalism, Epistemology, Self-knowledge, Cognitive penetrability, Aesthetics.

### **Prof. Yuval Dolev**

E-mail: [Yuval.Dolev@biu.ac.il](mailto:Yuval.Dolev@biu.ac.il); [dolevyuval@gmail.com](mailto:dolevyuval@gmail.com)

Philosophy of Time, the A/B theories debate and a phenomenological alternative. Time in the context of the realism/antirealism debate, relativity theory, temporal directionality. Philosophy of perception.

### **Dr. Lyat Friedman**

E-mail: [lyatfriedman@gmail.com](mailto:lyatfriedman@gmail.com)

Continental philosophy, phenomenology, postmodern philosophy, feminist philosophy, philosophy of art, with an emphasis on Gilles Deleuze's work. Cultural studies, critical thinking, gender studies, psychoanalytic theory, film theory, queer studies and postcolonial thinking, focusing on the question of "What is the work of criticism?"

### **Prof. Dov Hercenberg**

E-mail: [Bernard-Dov.Hercenberg@biu.ac.il](mailto:Bernard-Dov.Hercenberg@biu.ac.il); [dovberg1@gmail.com](mailto:dovberg1@gmail.com)

Aesthetics, separation and the creative process; Heidegger and his philosophy of Zusammenhang; Zerrissenheit as a parameter for the understanding of situations, art objects, and nature; The relationship between nature and culture.



## Department of Philosophy

### **Dr. Pini Ifergan**

E-mail: [Pini.Ifergan@biu.ac.il](mailto:Pini.Ifergan@biu.ac.il)

Classical German philosophy with emphasis on German idealism, especially on Hegel's Social and political philosophy. Philosophical-Anthropology, with strong emphasis on the works and thoughts of Hans Blumenberg. The question concerning Secularization process and the Philosophical discourse on modernity.

**Keywords:** Hegel, German Idealism, Hans Blumenberg, Secularization, Modernity.

### **Dr. Tamar Levanon**

E-mail: [Tamar.Levanon@biu.ac.il](mailto:Tamar.Levanon@biu.ac.il)

The metaphysical problem of change and its implications, the ontological and phenomenological analyses of such concepts as transition, passage and continuity. Early modern philosophy and particularly Leibniz's metaphysics and dynamics, early twentieth-century philosophy and the development of process metaphysics in William James and Alfred North Whitehead.

**Keywords:** Early Modern philosophy, Leibniz, Process philosophy, Metaphysics, Awareness of time.

### **Prof. Ohad Nachtomy**

E-mail: [Ohad.Nachtomy@biu.ac.il](mailto:Ohad.Nachtomy@biu.ac.il); [ohadnachtomy@mac.com](mailto:ohadnachtomy@mac.com)

Early Modern Philosophy; Philosophy and History of Biology; Wittgenstein's Philosophy; Multicultural Theory (especially in the Israeli context).

### **Dr. Efrat Ram-Tiktin**

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Moral Philosophy; Bioethics; Healthcare policy; Resource allocation; Political Philosophy: theories of justice during the 20th century.



## Department of Philosophy

### **Prof. Avi Sagi**

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Continental philosophy; Phenomenology and existentialism; Hermeneutics; The relationship between religion and morality; Political thought; Identity; Toleration; Pluralism and Multiculturalism; Contemporary Jewish philosophy; Philosophy of Halakhah; Critical and cultural theory; Philosophy and Literature.

### **Prof. (Em.) David Widerker**

E-mail: [widerd@mail.biu.ac.il](mailto:widerd@mail.biu.ac.il)

Free will, moral responsibility, action theory, philosophy of mind, metaphysics.

### **Prof. Noam Zohar**

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Moral and political philosophy: applied ethics, mainly bioethics and the ethics of Warfare; Rabbinics: methods for exploring the relation between texts, norms, and values; philosophy of Halakhah; Jewish bioethics, Jewish political thought.



## Department of Information Science

### **Prof. Noa Aharony**

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Information literacy, information technology, acceptance among information professionals, information science education, social media.

### **Prof. Judit Bar-Ilan**

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Informetrics, including bibliometrics; altmetrics and research evaluation; Information retrieval; information behavior and Internet research.

### **Prof. Shifra Baruchson- Arbib**

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History and sociology of communication channels, reference literature and the information interview; social information science; info-ethics; history of the Hebrew printed book; information behavior.

### **Dr. Ofer Bergman**

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Personal information management, information behavior, human-computer interaction, Information retrieval.

### **Dr. Jenny Bronstein**

E-mail: [Jenny.Bronstein@biu.ac.il](mailto:Jenny.Bronstein@biu.ac.il)

Information seeking behavior, academic libraries, Web 2.0 and Library 2.0, information retrieval, immigration, information poverty, virtual communities, blogs, information disclosure.

### **Dr. Gila Prebor**

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History of the Hebrew book, Organization of information, Metadata, Bibliographic technique, Digital humanities.





## Department of Information Science

### **Prof. Snunith Shoham**

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Organizational behavior, knowledge management, knowledge organization, information needs, public libraries.

### **Dr. Maayan Zhitomirsky-Geffet**

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Semantic web and ontology research; social web and crowdsourcing-based data modeling and management; information retrieval; digital humanities and natural language processing.



## Department of Music

### **Prof. Eytan Agmon**

E-mail: [Eytan.Agmon@biu.ac.il](mailto:Eytan.Agmon@biu.ac.il); [agmonz@012.net.il](mailto:agmonz@012.net.il)

Theory and analysis of tonal music, including the study of tonality mathematically from a communicative perspective; Schenkerian analysis, rhythm, and the music of Chopin.

### **Prof. Dorit Amir**

E-mail: [Dorit.Amir@biu.ac.il](mailto:Dorit.Amir@biu.ac.il)

Music therapy.

### **Prof. Ehud Bodner**

E-mail: [Ehud.Bodner@biu.ac.il](mailto:Ehud.Bodner@biu.ac.il)

Psychology of Music, Gerontology, Psychopathology. In the psychology of music I work on: (a) mood regulation through (e.g., “problem music”, music in aging); (b) motivation (e.g., music in sport) and (c) the impact of music on inter-group relations (e.g., to reduce stigmas, prejudice, and intergroup bias). In gerontology I study: (a) perceptions of aging and dying, (b) personality development, (c) positive psychology, (d) emotional complexity and emotion regulation. In psychopathology: (a) psychotherapy with borderline personality patients, (b) psychopathologies and positive psychology.

**Keywords:** Cognitive perspective of psychopathology, Music and emotions, Psychology of Music, Medical psychology, Ageism and social perceptions of the elderly.

### **Prof. Judit Frigyesi**

E-mail: [Judit.Frigyesi@biu.ac.il](mailto:Judit.Frigyesi@biu.ac.il); [FrigyesiJudit@gmail.com](mailto:FrigyesiJudit@gmail.com)

Twentieth century music and literature: avant-garde, experimental forms; the music of Béla Bartók: structure, hermeneutics, socio-cultural context; East-Ashkenazi liturgical chant and para-liturgical music: structure (rhythm, modality and typology), aesthetics, history and history of research; the expression of Jewish existence in 19th and 20th century European music and literature.



## Department of Music

### **Dr. Avi Gilboa**

E-mail: [Avi.Gilboa@biu.ac.il](mailto:Avi.Gilboa@biu.ac.il)

Music therapy and psychology of music with an emphasis on social and emotional aspects of music.

### **Dr. Yoel Greenberg**

E-mail: [Yoel.Greenberg@biu.ac.il](mailto:Yoel.Greenberg@biu.ac.il)

The rise of the sonata form as a self-organizing system - an evolutionary model. Music of Jewish composers post WWI (Schoenberg, Schulhoff and Ben Haim).

### **Prof. Ethan Haimo**

E-mail: [Ethan.Haimo@biu.ac.il](mailto:Ethan.Haimo@biu.ac.il); [ethan.haimo@gmail.com](mailto:ethan.haimo@gmail.com)

Music theory (theories of tonal form, atonality, and 12-tone theory); Music of the late eighteenth century (in particular, Haydn and Cimarosa); music of the early twentieth century (in particular, Schoenberg and Stravinsky); Composition (works for solo instruments, chamber groups, choir, orchestra).

### **Dr. Atara Isaacson**

E-mail: [Atara.Isaacson@biu.ac.il](mailto:Atara.Isaacson@biu.ac.il)

Nineteenth-century music, aesthetics of the Romantic Era, vocal genres and piano music, music education, Israeli song, alternative teaching methods, navigation in the classroom, discipline problems, teacher-student relationships, and methodology of education.

### **Prof. Gideon Lewensohn**

E-mail: [Gideon.Lewensohn@biu.ac.il](mailto:Gideon.Lewensohn@biu.ac.il); [odradek11@gmail.com](mailto:odradek11@gmail.com)

Composition -pieces for orchestra and chamber music as well as theatre music and electro-acoustic works.



## Department of Music

### **Prof. Betty Olivero**

E-mail: [Betty.Olivero@biu.ac.il](mailto:Betty.Olivero@biu.ac.il)

Composition. Jewish musical traditions, Betty Olivero's compositional style shows the influence of early Penderecki, as well as Berio. Compositions have drawn upon traditional Jewish folksongs, and Sephardi and Middle Eastern Jewish folklore.

### **Dr. Elena (Temin) Reikher**

E-mail: [reikhee@mail.biu.ac.il](mailto:reikhee@mail.biu.ac.il); [elena.reikher@gmail.com](mailto:elena.reikher@gmail.com)

Theory of music, the traditional and art music of Central Asia, the musical culture of the Bukharan Jews.

### **Dr. Laya Silber**

E-mail: [Laya.Silber@biu.ac.il](mailto:Laya.Silber@biu.ac.il)

Yiddish art song, American Yiddish theater music and the music of George Gershwin, choral music performance practice, and choral singing and well-being.

### **Dr. Sara Zamir**

E-mail: [concerts@mail.biu.ac.il](mailto:concerts@mail.biu.ac.il)

Interdisciplinary studies of Music and Literature aesthetics.



## Department of Translation and Interpreting Studies

### Dr. Galia Hirsh

E-mail: [Galia.Hirsch@biu.ac.il](mailto:Galia.Hirsch@biu.ac.il); [galiahirsch@gmail.com](mailto:galiahirsch@gmail.com)

Comparative pragmatic analysis in Hebrew, Spanish, English, and implications for translation; primarily relating to differences in the use of explicitation strategies. Indirectness: irony, humor. Pragmatic analysis of literary texts and implications for translation.

### Dr. Hilla Karas

E-mail: [Hilla.Karas@biu.ac.il](mailto:Hilla.Karas@biu.ac.il); [tirgum\\_itonut@yahoo.fr](mailto:tirgum_itonut@yahoo.fr)

Theory of translation; translation of medieval texts; intralingual translation, especially inter-temporal; heterolingual texts; translation and national identity, continuity and history.

### Prof. Elda Weizman

E-mail: [Elda.Weizman@biu.ac.il](mailto:Elda.Weizman@biu.ac.il)

Cross-cultural pragmatics (French-English-Hebrew); translation; indirectness; on-line written media (editorials and readers' comments), electronic media (news interviews) and spoken discourse (face to face interaction); irony, speech acts; challenge; positioning corpus-based discourse analysis.

### Prof. Rachel Weissbrod

E-mail: [Rachel.Weissbrod@biu.ac.il](mailto:Rachel.Weissbrod@biu.ac.il)

Theory of translation; history of translation into Hebrew; literary translation; translation for the electronic media (film, television); inter-semiotic translation/transfer/adaptation; translation and anti-Semitism.

**Keywords:** Translation, Hebrew, Literature, Media, Film, Television, Inter-semiotic translation, Adaptation, Anti-Semitism.

A photograph of a man with a grey beard and glasses, wearing a blue shirt, holding a globe. The globe is tilted and shows various geographical features and labels. The background is white.

# Faculty of Social Sciences

Department of Criminology  
Department of Economics  
Department of Geography and Environment  
Department of Management  
Department of Political Studies  
Department of Psychology  
Department of Sociology and Anthropology  
Interdisciplinary Department of Social Sciences  
School of Communication  
School of Education  
The Graduate School of Business Administration  
The Louis and Gabi Weisfeld School of Social Work



## Department of Criminology

### **Dr. Moshe Bensimon**

E-mail: [Moshe.Bensimon@biu.ac.il](mailto:Moshe.Bensimon@biu.ac.il)

Victimology: Post-traumatic stress disorder and post-traumatic growth among terror victims; Combat stress reaction; Music therapy with terror victims. Aggression, crime and music: Music in prison; Music and crime; Dangerous music; Music and aggression; Collective singing and violence.

**Keywords:** Trauma, PTSD, Combat stress reaction, Terror victims, Music, Music therapy, Music and aggression, Prison.

### **Dr. Lior Cohen-Raz**

E-mail: [lior.cohenraz@gmail.com](mailto:lior.cohenraz@gmail.com)

Perceptual, cognitive and emotional aspects of criminality; Victimology and deviance; Psychophysical methods as applied to criminology; Violence and effect; Developmental and personality aspects of psychopathology and deviance.

### **Dr. Tomer Einat**

E-mail: [Tomer.Einat@biu.ac.il](mailto:Tomer.Einat@biu.ac.il)

Penology; Criminal Justice; Intermediate Sanctions and Alternatives to Imprisonment; The Psychosocial effects of imprisonment on male and female prisoners; Intellectual Disabilities and Criminal Behavior; Sexual Relations and Sexuality among Men and Women Prisoners; Human Rights and Health Rights of Prisoners.

### **Prof. Joseph Glicksohn**

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Criminological and brain research, such as the study of sensation seeking, the relationship between impulsivity and time perception, and electrophysiological and neuropsychological correlates of personality traits.

**Keywords:** Cognition, Consciousness, EEG, Impulsivity; Metaphor, Personality, Sensation seeking, Time perception.



## Department of Criminology

### **Dr. Keren Gueta**

E-mail: [Keren.Gueta@biu.ac.il](mailto:Keren.Gueta@biu.ac.il); [keren@gueta.com](mailto:keren@gueta.com)

Coping with addiction: Long-term recovery, identity construction process, self-forgiveness, gender sensitive therapy, natural recovery, web-based interventions. Gender differences in inter-generational transmission of crime and substance abuse.

### **Dr. Yael Idisis**

E-mail: [idisisy@biu.013.net.il](mailto:idisisy@biu.013.net.il)

Sex crimes and sexual perversions: Treatment and Prevention; Implications of treating forensic patients for the psychotherapist and for the patient; Moral judgment: attribution of blame and severity; Fear of crime.

**Keywords:** Sex crime, Moral judgment, Fear of crime.

### **Dr. Rotem Leshem**

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Impulsivity and decision-making processes in adolescence; the neural basis and physiological processes of attention, language and emotions in relation to risky behaviors; Executive functions and emotional and behavioral problems; Hemispheric specialization for linguistic and emotional processes in risky behaviors.

### **Dr. Galit Nahari**

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Legal and investigative decision-making; Detection of deception and witness credibility assessments; Applied memory; Criminal psychology (e.g., strategies of liars in the interrogation room); Verbal behavior of liars and truth-tellers; Developing of interrogation and lie-detection methods, examining their validity and suitability in different contexts, and their vulnerability to judgmental biases; Detection of concealed knowledge.

**Keywords:** Cognitive processes, Behavior, Lying, Credibility, Criminal psychology, Veracity assessments.





## Department of Criminology

### **Prof. Natti Ronel**

E-mail: [Natti.Ronel@biu.ac.il](mailto:Natti.Ronel@biu.ac.il)

The initiator of the new “Positive Criminology” perspective in criminology, and the recent “Positive Victimology” perspective in victimology. Focuses on the recovery process of offenders and addicted individuals, with emphasis on spiritual recovery.

**Keywords:** Crime Desistance, Offender Rehabilitation, Positive Criminology, Positive Victimology; Recovery; Spirituality.

### **Dr. Sophie Walsh**

E-mail: [walshs@biu.ac.il](mailto:walshs@biu.ac.il); [sophiewalsh@gmail.com](mailto:sophiewalsh@gmail.com);

Immigration and its impact on adolescents and their families; adolescent health and risk behaviors (involvement in peer violence, substance use, delinquency) with an emphasis on causes, risk and protective (resiliency) factors.

**Keywords:** Immigration, Family relationships, Adolescent development processes.

### **Dr. Ada Yurman**

E-mail: [Ada.Yurman@biu.ac.il](mailto:Ada.Yurman@biu.ac.il); [yurman.ada@gmail.com](mailto:yurman.ada@gmail.com)

Sociology of deviance, political violence, victimology, social reaction to victims, the victimization of the holocaust as a guiding principle of Israeli discourse, culture and law.

**Keywords:** Mass victimology, Political deviance, Sociology of deviance, Social change.



## Department of Economics

### **Dr. Shiri Alon-Eron**

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Decision Theory, social choice, axiomatic foundations for data-based decision making, individual decision making in a group context.

**Keywords:** Decision theory, Uncertainty, Preference relation, Social choice.

### **Prof. Eyal Baharad**

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History of economic thought, energy economics.

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*Winner of Israel Prize, 2016 [An award handed out by the State of Israel and is generally regarded as the state's highest honor], for his contribution in Geography, Israel Studies and Archeology research.*

Historical Geography; study of the historical and settlement geography of the Land of Israel in the modern era; history of the land laws in the Land of Israel and the State of Israel; ethnic groups in central and western Canada; cultural processes in the design of space: military and general cemeteries and houses of worship.

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A spatial ecologist, mostly interested in any aspects of ecological patterns, processes and mechanisms that are directly affected by their spatio-temporal component, such as interactions between species, environmental effects on community assembly and the influence of disturbance on ecological phenomena. I have experience in working in various ecosystems, such as coral-reefs, tropical forests and Mediterranean and arid environments.

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Desert geomorphology and hydrology with emphasis on fluvial processes: channel modification, scour and fill processes and sediment transport by flash floods. Most of the research is conducted in the Nahal Yael Watershed that serves as a field laboratory for understanding desert geomorphology since 1965. Lately some research was conducted on urban hydrology.

**Keywords:** Desert geomorphology, Geomorphology of Israel, Floods, Field work, Urban hydrology.

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Geographical information systems and remote sensing. Time series analysis of satellite data for meteorological, epidemiological, forest, and agricultural studies and applications. The tools provided by GIS and RS will be crucial for studying and understanding the spatial distribution and temporal trends of land changes and development as well as for monitoring the sea surface.

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Soil - water – vegetation relationships; spatial and temporal patterns of soil properties; land degradation and desertification; Eco geomorphic systems of arid and semi-arid zones; rainfall characteristics, effects on runoff generation and soil erosion under natural and agricultural land use; urban soils; technosoil (artificial soils); archeology and environment, geomorphological and pedological processes in various climate conditions.

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Economic geography with interest in local and regional development in developed and developing countries, transformation processes in the rural space, entrepreneurship in rural settlements, changing pattern of Arab settlements in Israel, and in environmental issues within the built up areas. This experience evolved in work in Fiji, Tanzania, Romania, and Israel.

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Public health service for children and adolescents; preventive medicine in children: vaccinations and injury prevention; children's environmental health; prevention and treatment of poisoning in children; lead poisoning, scorpion envenomation, chemical safety and marine environment toxicology, pediatric pharmacology; overdose, kinetics and drug interactions.

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Psychotherapy Research Lab: the study of dyadic intrapersonal processes that take place in both clients and therapists, and of the interpersonal processes that occur between them, to better understand change mechanisms in psychotherapy; Studies that systematically explore fundamental aspects of Psychodynamic theory (e.g. transference, countertransference, rigidity/flexibility in self/object representations, progression in treatment from dissociation to dialectics); Tracing the process of psychotherapy via advanced machine learning techniques.

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Investigation of the unique mechanisms and processes that underlie the perception of various visual categories such as faces, objects, scenes, and words. Issues are examined by combining electrophysiological (ERP) and behavioral techniques, and by examining healthy individuals as well as individuals with specific neuropsychological deficits affecting various aspects of visual perception, such as agnosia, and prosopagnosia.

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Leadership in organizations, implications of individual differences in leader and follower personality and values for employee and organizational outcomes. Association of leadership with strategic processes, such as organizational learning and change. Interactions between the role of principals and teachers' leadership in predicting school renewal processes and student achievement outcomes.



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**Keywords:** Social groups, Behavioral economics, Morality, Culture.

### **Prof. Miriam Faust**

E-mail: [faustm@biu.ac.il](mailto:faustm@biu.ac.il); [Miriam.Faust@biu.ac.il](mailto:Miriam.Faust@biu.ac.il)

Investigating the neurobiological basis of language using a variety of research techniques. Examining the neurolinguistic mechanisms underlying the comprehension of creative language, emphasizing hemispheric involvement in processing novel metaphors. Researching phonological and semantic processing in native versus foreign language.

### **Prof. Ruth Feldman**

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Relationships and their contribution to children's social, emotional, and neurological development. Integration of genetic, brain, and neuroendocrine measures with fine-grain behavioral analysis in longitudinal developmental research from infancy to adolescence in health and psychopathology and in formulating novel interventions.

**Keywords:** Developmental relationships, Neurobiology in health and pathology.

### **Prof. Ronny Geva**

E-mail: [Ronny.Geva@biu.ac.il](mailto:Ronny.Geva@biu.ac.il)

Developmental Neuropsychology Lab: Long-term longitudinal prospective study of infants at risk for neurodevelopmental disorders. Prenatal and perinatal origins of attention, self-regulation and interactive skills. Integration of behavioral, electrophysiological, and gaze tracking analysis for improved diagnosis and individually tailored interventions.

**Keywords:** Developmental neuropsychology, Behavior, Self regulation, Attention disabilities, Prmaturity and development at risk, Improved diagnosis, Individual interventions.



## Department of Psychology

### **Prof. Eva Gilboa-Schechtman**

E-mail: [gilboae@mail.biu.ac.il](mailto:gilboae@mail.biu.ac.il); [evagilboa@gmail.com](mailto:evagilboa@gmail.com)

Understanding and treatment of anxiety and depression. The ways non-verbal cues and ordinary social rebufs combine to maintain social anxiety, depression, and low self-esteem. Multi-method approach by measuring phenomenological, cognitive, behavioral, and biological indices of emotional responses. Developing and testing effective treatments and understanding the mechanisms behind their effectiveness.

**Keywords:** Behavioral measurements, Anxiety, Depression, Emotional responses, Mechanism of action of anti-depressant therapy.

### **Prof. Ofer Golan**

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Developmental psychopathology; Autism Spectrum Disorder: diagnosis, cognition and emotion, development, intervention; Social and emotional development: Empathy, Theory of Mind, Emotion Recognition, Expression and Regulation; Intervention effectiveness; Face processing and Gaze behavior.

### **Prof. Avi Goldstein**

E-mail: [Avi.Goldstein@biu.ac.il](mailto:Avi.Goldstein@biu.ac.il)

Electromagnetic correlates (MEG/EEG) of cognitive and emotional mechanisms in normal and clinical populations.

### **Dr. Ilanit Gordon**

E-mail: [Ilanit.Gordon@biu.ac.il](mailto:Ilanit.Gordon@biu.ac.il); [ilush.gordon@gmail.com](mailto:ilush.gordon@gmail.com)

Biomarkers of behavioral social interactions in humans. Biomarkers include functional brain imaging, autonomic nervous system function, hormonal activity, and genetic variation. Dr. Gordon examines the involvement of the neuro-hormone oxytocin in human interactions and investigates how manipulation of oxytocin impacts brain function and behavior in typically and atypically developing individuals, most specifically individuals with autism spectrum disorders.

**Keywords:** Oxytocin, fMRI, Autism spectrum disorders, Group interactions, Behavioral microanalysis.



## Department of Psychology

### **Dr. Eliran Halali**

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Judgment and decision-making processes. Behavioral economics, altruism, fairness, trust, reciprocity, cooperation, conflict resolution and unethical behavior. Investigating the effects of dual processes, such as intuition and reasoning, emotions and emotion-regulation, and automaticity and self-control, and their interplay, on the way people form their judgments and decisions in individual and in social contexts.

**Keywords:** Judgment and decision-making, Pro-social behavior, Social preferences, Conflict and negotiation, Unethical behavior, Dual-processes.

### **Prof. Ilanit Hasson- Ohayon**

E-mail: [hasoni@mail.biu.ac.il](mailto:hasoni@mail.biu.ac.il); [Ilanit.Hasson-Ohayon@biu.ac.il](mailto:Ilanit.Hasson-Ohayon@biu.ac.il)

Coping with mental illness - insight, self-stigma, metacognition and psychotherapeutic interventions. Psycho-oncology- the psychological and social aspects of coping with cancer.

### **Dr. Danny Horesh**

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The long-term course of post-traumatic stress disorder (PTSD) and its co-morbidities; Risk and resilience factors in the face of traumatic stress; Psychopathology following combat; Psychotherapy research in the field of PTSD.

### **Dr. Netta Horesh-Reinman**

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Life events and well-being. Stressful life events and psychopathology. Suicide. Tourette Syndrome.



## Department of Psychology

### **Prof. Ronit Kark**

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Organizational psychology. Leadership in organizations. The role of identity, self and identification in leaders-follower influence processes. The development of leadership and leadership identity. Positive relationship and thriving in organizations. Processes that enhance creativity and the role of play. Gender dynamics and women's leadership. Leadership distance and closeness as effecting relationships and organizational outcomes.

**Keywords:** Organizational psychology, Emotions, Leadership in organizations, Gender, Gender dynamics, Women's leadership, Relationships in organizations.

### **Prof. (Em.) Meni Koslowsky**

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Works together on several research projects with the Feuerstein Institute in Jerusalem and with several researchers at Florida International University.

Personnel selection, organizational behavior, especially lateness and organizational withdrawal, the stress-strain relationship, methods of persuasion and their effectiveness, and research methodology.

**Keywords:** Social behavior in organizations, Turnover, Lateness, Absences, Methods of persuasion.

### **Prof. Michal Lavidor**

E-mail: [lavidom@mail.biu.ac.il](mailto:lavidom@mail.biu.ac.il)

Cognitive enhancement via non-invasive brain stimulation and cognitive training.

### **Prof. (Em.) Rachel Levy-Shiff**

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Children, families, illness, marriage, divorce, eating disorders, coping with stressful situations.



## Department of Psychology

### **Prof. Tuvia Peri**

E-mail: [Tuvia.Peri@biu.ac.il](mailto:Tuvia.Peri@biu.ac.il); [tperi@yahoo.com](mailto:tperi@yahoo.com)

The study of a novel intervention of integrative psychotherapy for patients suffering from Post-traumatic Stress Disorder – Narrative Reconstruction.

MEG (magnetoencephalography) study of impairments of brain functioning in PTSD patients. Mechanisms of change in different methods of psychotherapy. Psychoanalysis and Midrash.

**Keywords:** Narrative therapy, Post traumatic stress disorder, Grief, Loss, Therapy outcomes, Magnetoencephalography, Psychoanalysis and Midrash, Psychoanalytical reading in the Tanakh and Rabbinical literature.

### **Prof. Eshkol Rafaeli**

E-mail: [eshkol@biu.ac.il](mailto:eshkol@biu.ac.il); [eshkol.rafaeli@gmail.com](mailto:eshkol.rafaeli@gmail.com)

Experience sampling and observational methods used for the study of personality disorders, dyadic processes, and psychotherapeutic change.

### **Dr. Yuri Rassovsky**

E-mail: [yurir@biu.ac.il](mailto:yurir@biu.ac.il); [Yuri.Rassovsky@biu.ac.il](mailto:Yuri.Rassovsky@biu.ac.il)

Innovative methods for cognitive enhancement and rehabilitation of neurocognitive deficits in severe mental illness and neurological disorders; the effects of sports activities on the brain and on cognitive and emotional functions; the relationships among brain, cognitive, and emotional reserves and their impact on treatment and rehabilitation; visual information processing and social cognition in schizophrenia.

**Keywords:** Neurocognitive enhancement, Effect of sports on cognition and emotion, Mental illness, Visual processing in schizophrenia.

### **Prof. (Em.) Joseph Schwarzwald**

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Posttraumatic stress disorder, intergroup relations, social power and influence. Social power and Influence.





## Department of Psychology

### **Prof. Shmuel Shulman**

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In recent years young people have increasing difficulties in completing the transition to adulthood; establishing a career and a committed relationship. Within the conceptual framework of developmental psychopathology, we were able to identify normative and pathological trajectories. In addition, based on our longitudinal data we are able to point to personality and support systems that predict the distinctive outcomes.

**Keywords:** Maturation process, Adolescent relationships, Developmental psychology.

### **Dr. Elena Stephan**

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Mental representation of the Self in the past and in the future and its motivational and behavioral implications; The role of the partner representation in close relationships; The effects of using one's native versus a foreign language on decision making, creativity and art appreciation.

**Keywords:** Social Cognition, Self, Interpersonal relationships, Social communication.

### **Prof. Rivka Tuval-Mashiach**

E-mail: [tuvalmr@mail.biu.ac.il](mailto:tuvalmr@mail.biu.ac.il); [tuvalmr@gmail.com](mailto:tuvalmr@gmail.com)

Understanding responses to stress and trauma at the individual, family, and community levels. Trauma and gender. Interventions with soldiers and veterans. Resilience and post traumatic growth. Identity construction processes following illness and stressful events. A life span perspective of women's psychology, including the transition to motherhood, and exploring the maternal experience. The development of narrative approaches to research.

**Keywords:** Qualitative methodology, Resilience, Trauma and stress, Family coping with trauma, Family burden, Gender development, Motherhood, Narrative research.

### **Dr. Liad Uziel**

E-mail: [Liad.Uziel@biu.ac.il](mailto:Liad.Uziel@biu.ac.il)

Individual differences in social behavior. How personality traits (mainly impression management, neuroticism, self-control) affect responses and adjustment in interpersonal contexts.



## Department of Psychology

### **Prof. Eli Vakil**

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Memory and memory disorders in various populations. I have access to patient populations of various etiologies, including traumatic brain injury, CVA, and Parkinson's disease, as well as groups of healthy elderly individuals and school-aged children with ADHD or mental retardation. Eye tracker in our laboratory is now integrated in context as well as in skill learning studies. This tool provides us with information regarding the attention directed to stimuli presented. Sophisticated analytic programs allow us to analyze cognitive performance without utilizing verbal reports.

**Keywords:** Neuropsychology, Memory, Memory disorders, Traumatic brain injury (TBI).

### **Dr. Noa Vilchinsky**

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Psycho-cardiology: Coping with cardio-vascular illnesses; Dyadic coping in times of illness; Caregiving in times of illness; Personality, health and illness, Cultural diversity, health and illness; Attitudes toward people with disabilities; Dignity and respect in medical settings

### **Prof. Aron Weller**

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Investigating emotion regulation, using animal models of depression and anxiety, and separately, studying eating and body-weight regulation, using animal models of obesity, binge-eating and snacking. Primary research theme: searching for neurochemical mechanisms at sensitive developmental periods that may "program" and underlie the risk for unhealthy development. Major themes include: sex-differences, early interventions that can affect the pattern of development via epigenetic mechanisms, and inhibitory control of behavior.

**Keywords:** Depression, Anxiety, Anhedonia, Obesity, Epigenetics, Binge-eating, Animal models, Biological psychiatry, Developmental psychobiology.



## Department of Sociology and Anthropology

### **Dr. Galit Ailon**

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Dr. Ailon is an economic and organizational sociologist. She uses ethnographic fieldworks as well as textual and discourse analyses to study culture and power in global organizations and in financial markets. Her research projects have included the study of the social construction of national identity in global work contexts; the analysis of power and conflict in cross-cultural organizational realities as well as in theoretical accounts of these realities; and the study of the cultural representations of corporate financial scandals in the popular business media. In the past years she has been engaged in the study of popular financial culture in Israel.

**Keywords:** Financial culture, Organizational Theory, Economic sociology, Economic and Managerial Discourse, Organizational Globalization.

### **Prof. Orly Benjamin**

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Close relationships, poverty of employed women and job insecurity including its relations to marriage, precarious employment and gender, gender, sexuality and ambivalent belonging.

### **Dr. Limor Gabay-Egozi**

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Social stratification, disparity in education and labor market, focusing on class, ethnicity, gender, and family structure, and sociology of education

### **Prof. Tova Gamliel**

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Cultural performances (traditional and daily ceremonies), anthropology of theater, anthropology of emotions, intergenerational relations, internet and inter-personal relations, death and mourning ceremonies, gerontology and social identity, social and cultural anthropology.



## Department of Sociology and Anthropology

### **Dr. Danny Kaplan**

E-mail: [Danny.Kaplan@biu.ac.il](mailto:Danny.Kaplan@biu.ac.il)

Sociology and anthropology of emotions. Interested in the study of nationalism through the prism of friendship. Israeli masculinity, militarism, civic associations, commemoration, media, and popular culture.

### **Dr. Nissim Leon**

E-mail: [Nissim.Leon@biu.ac.il](mailto:Nissim.Leon@biu.ac.il); [nissimnu@bezeqint.net](mailto:nissimnu@bezeqint.net)

Modern Judaism, ultra-Orthodox communities, religious fundamentalism, nationalism, the emergence of collective memory, and the politics of the middle classes.

### **Dr. Shira Offer**

E-mail: [Shira.Offer@biu.ac.il](mailto:Shira.Offer@biu.ac.il)

Work and family, parenting, dual-earner couples, time-use research, gender, personal networks, social support, low-income mothers, poverty and social inequality.

### **Dr. Michal Pagis**

E-mail: [Michal.Pagis@biu.ac.il](mailto:Michal.Pagis@biu.ac.il); [michalpagis@gmail.com](mailto:michalpagis@gmail.com)

Combining social psychology (from a sociological perspective) with sociology of religion and culture; qualitative methods to investigate the social dynamics that are at the base of identities, ideologies and religious practice, searching for the micro foundations of contemporary cultural structures. Uncovering the different roles of social relations, interactions and practices in the production of post-industrial selves in a variety of arenas, from meditation centers to life coaching in organizations.

**Keywords:** Sociology of religion and spirituality, Sociology of self and emotions, Micro-sociology, Sociology of culture, Social theory, Sociology of work and organizations.

### **Prof. Larissa Remennick**

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Sociology of immigration and migrant integration in Israel and in the West; Russian-Soviet Jewry, emigration and global diaspora, women's health and new reproductive Technologies.



## Department of Sociology and Anthropology

### **Dr. David Rier**

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Sociology of medicine and sociology of science and knowledge; communication, memories, and experiences of patients in intensive care units (ICUs); the use and meaning of “evidence” in formation of Israeli tobacco-control policy; development of a “panoramic” approach to the patient’s illness narrative; allocation of scarce medical resources (i.e., triage) in organ transplantation, ICUs, and combat medicine in Israel; blame and responsibility, as understood by patients and by medical sociologists.

**Keywords:** Communication, Medical sociology, Illness Narratives, ICU, Combat medicine, Tobacco control policy.

### **Prof. Orna Sasson-Levy**

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Military and gender: constructing gender identities in the military; women in military service; citizenship, military and gender; gendered implications of the decline of the Israeli citizen’s army; the meaning of military service in Israeli women’s life stories: an intersectional perspective. Israeli ethnicities: Ashkenaziyut, inter-generational differences in ethnic perceptions, hishtaknezut (passing as non-ethnic); new social movements: gender and protest movements; feminist theory: gender segregation vs. women’s exclusion, social responsibility for gender equality in Israel.

**Keywords:** Gender and Militarism, Ethnicity, Social movements, Feminist theory, Changes in ethnic perception.

### **Dr. Ori Schwarz**

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Cultural sociology; sociology of the internet and digital culture, ethnic and class identities; sociology of value and evaluation; sociology of the senses (esp. sounds and society) and attention, sociological theory.



## Department of Sociology and Anthropology

### **Dr. Baruch Shimoni**

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Organizational Development, Cross-Cultural Management, Mizrahiut, Philanthropy.

**Keywords:** Organizational consulting, Global corporations, Organization cultures, Organization change, Mizrahim and Ashkenazim, Mizrahi-Sabra, Mega donors, Philanthropy of business people.

### **Prof. Ilana F. Silber**

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Sociological theory, sociology of gift-relationships, sociology of philanthropy and nonprofit organizations, cultural sociology, sociology of morality, sociology of religion, comparative historical sociology

### **Prof. Ephraim Tabory**

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A sociologist and social psychologist specializing in religious conflict and identity. Prof. Tabory's research deals with intergroup relations between religious and nonreligious Jews, religious denominations, and conflict emanating from religious change.

**Keywords:** Religious identity, Religious conflict, Intergroup relations, Relations between religious and nonreligious Jews, Jewish denominations.



## Interdisciplinary Department of Social Sciences

### **Prof. Ehud Bodner**

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Gerontology and psychology of music. Impact of ageism on social perceptions of elders. The effect of music on inter-group relations and on behavioral and emotional reactions. Cognitive aspects of psychopathology and suicide, well-being, and perceptions of aging and death.

### **Prof. Bryna (Rina) Bogoch**

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The media coverage of law (projects on the coverage of the Supreme Court, criticism of the supreme court, the coverage of judicial nominations, public relations and the courts, reporting trials of politicians). Textual analysis of legal decisions (project on formalism in legal decisions and changes over time). Gender and the law, and interpersonal communication.

**Keywords:** Media coverage of the trials of politician's law and technology.

### **Dr. Yaakov Hoffman**

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Emotions and skillsets.

### **Dr. Zev Kalifon**

E-mail: [kalifz@biu.ac.il](mailto:kalifz@biu.ac.il); [kalifz@gmail.com](mailto:kalifz@gmail.com)

Medical anthropology, families of mental patients, public attitudes toward organ transplants in Israel and deafness; Measurement of attitudinal change using consensus analysis.

### **Dr. Chaim Lavie**

E-mail: [lavych@biu.ac.il](mailto:lavych@biu.ac.il)

How the contact between Jews and Arabs in different situations affects the positions of both parties.



## Interdisciplinary Department of Social Sciences

### **Dr. Orly C. Meron**

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Economic Sociology of migrants, minorities and ethnic groups; gender, work and ethnicity; Entrepreneurship and business history of minorities, migrants and ethnic groups; Demography: Population analysis; Demographic and economic history of the Jews during the Middle Ages and Modern Era.

### **Prof. Yacov Rofe**

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My main research area in the recent years concerns with the understanding the development of mental disorders. I demonstrate that all traditional theories failed to uncover the underlying cause of these disorders mainly because of the common axiomatic assumption that mental disorders' including schizophrenia, are caused by irrational psychological processes or adverse neurological disorders. The only way to resolve the bitter theoretical controversy in this field is to abandon this common belief and adopt the anti-thesis of this assumption' namely that mental disorders are intuitively chosen and that these behaviors serve the individual's best interest according to his best judgment. The topic of interests are repression, unawareness, neuroses, schizophrenia and phobia

**Keywords:** Mental disorders.

### **Dr. Amit Shrira**

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Aging, trauma, and mental health. More specifically, I study the effects of subjective aging (perceptions of one's age and nearness to death) on coping with the aging process and the aftereffects of traumatic and adverse events. I also examine the effects of cumulative adversity, and of massive trauma and its intergenerational transmission to adult children and grandchildren of traumatized people.

**Keywords:** Aging, Subjective age, Subjective nearness to death, Trauma, Intergenerational transmission.

### **Dr. Devorah Sredni- Kenigsbuch**

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The involvement of various growth factors in various diseases  
School of Communication





## School of Communication

### **Dr. Yaeli Bloch-Elkon**

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Public opinion, political communication. Political Communications: Media Framing, Media and Terrorism; Media and International Crisis/Foreign Policy; Public Opinion; Political Polarization; Quantitative Methods.

### **Prof. Bryna (Rina) Bogoch**

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The media coverage of law (projects on the coverage of the Supreme Court, criticism of the supreme court, the coverage of judicial nominations, public relations and the courts, reporting trials of politicians). Textual analysis of legal decisions (project on formalism in legal decisions and changes over time). Gender and the law, and interpersonal communication.

**Keywords:** Media coverage of the trials of politician's law and technology.

### **Prof. (Em.) Eytan Gilboa**

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US: Politics, foreign policy and relations with Israel; international communication, public diplomacy; Israel: politics, public opinion.

### **Dr. Jonathan Ilan**

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I am interested in all forms of cultural production and visual culture, particularly in the fields of international news media; news production; media institutions; and media ethnography. I completed an extensive ethnographic journey that covered the entire production processes of news pictures at Thomson Reuters international multimedia news agency along its 'local' and 'international' key moments and sites. I currently focus on global mechanisms and international news production.

**Keywords:** Cultural production, Visual culture, International news media, News production, Media institutions, International news agencies; Media ethnography.



## School of Communication

**Dr. Aliza Laserson**

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Language and communication, communication literacy.

**Dr. Aliza Lavie**

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Media and gender, media and religion, radio.

**Prof. Sam Lehman-Wilzig**

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New media, political communications, extra-parliamentary behavior.

**Dr. Clila Magen - Elek**

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Public relations, media and intelligence, communication in Israel.

**Prof. Shlomo Shpiro**

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Media and terrorism, communication in Europe.



## School of Education

### **Dr. Esther Adi-Japha**

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The formation of long-term procedural memory in typically developing individuals and in developmental disorders (e. g., Language Impairment, Attention Deficit Hyperactivity Disorder); Procedural flexibility in typical development and in bilingualism.

### **Dr. Miriam Alfassi**

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Dr Alfassi's research focuses on the development of intervention programs aimed at enhancing the thinking and learning strategies of junior high and high school students. The intervention programs are based on current sociocognitive theories that are at the cutting edge of educational research. These programs are designed to foster critical thinking through the acquisition of reading comprehension and academic writing. Dr Alfassi's research has significant theoretical and practical implications. Her studies are applied within the naturalistic learning environment of schools and classrooms, bridging between the communities of research and practice.

**Keywords:** Learning communities, Literacy and thinking, Design of learning environments.

### **Dr. Shirly Avargil**

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Science teachers' knowledge, views and challenges in reforms in science education, prompting students' higher order thinking and metacognitive skills in physical science education reform learning environments, models, visualization and technology based teaching in chemistry education.

**Keywords:** Teachers' assessment knowledge, Pedagogical content knowledge, Student's thinking skills, Metacognition in science education.



## School of Education

### **Prof. Nirit Bauminger**

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Social-emotional development of children with autism spectrum disorders (social relationships; friendship and attachment; peer interaction; emotional understanding and expressiveness; social cognition; early markers of social capacities). Social –emotional intervention to facilitate socio-communicative skills for children with autism spectrum disorders.

**Keywords:** Special education, Emotions, Autism spectrum disorders, Social development.

### **Dr. Pascale Benoliel**

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Leadership and Policy in Educational systems. Participative Leadership, Boundary Leadership. Individual differences (Big Five). Team leadership and teamwork in Senior Management Teams. Comparative Education and Cross-cultural analysis.

### **Dr. Maya Cohen-Malayev**

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Identity development theories; identity development and educational processes; religious identity development; professional identity development (mainly in the educational setting); motivational processes (Self Determination Theory); adolescence and emerging adulthood.

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Book of Ecclesiastes, the book of Psalms, Medieval biblical exegesis.

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The study of school and classroom culture, religious education, challenges, methods and ethical issues in qualitative research.



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The study of complex emotions in autism spectrum disorders (ASD). The neural substrates of fortune of others emotions. Co morbidity of psychiatric disorders in ASDs. Empathy and intergroup relations.

### **Dr. Sigal Eden**

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Advanced technologies to enhance abilities of children with special needs. Advancement of cognitive and lingual abilities of children with special needs.

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My main areas of interest are religious education in Israel and teachers' attitudes and beliefs. I also study the Haredi educational system and I am involved in a pioneering project to evaluate a new approach for teaching Talmud to boys in ultra-orthodox schools.

**Keywords:** Religious education, Haredi education methods, Teachers' behavior.

### **Dr. Zvia Fund**

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Cognitive and meta-cognitive aspects of problem-solving in computerized learning environments; communities of reflecting peers - effects and processes.

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Educational policy (structures processes and outputs). School-based management. School effectiveness. Managerial behaviors in educational organizations.

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Applying cognitive psychology to education. Memory, Learning, Metacognition, Motivation. Effective learning and instruction techniques. Learning throughout the lifespan. Desirable difficulties in learning.

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Adolescent risk behavior and injury prevention; "Youth Resilience" - the development of a conceptual model and an intervention strategy to enhance childhood and adolescent well-being, based on principals of positive psychology and the salutogenesis framework; Methodological development and implementation of international childhood and adolescent survey systems ; Develop new scientific models to investigate the coherency and effectiveness of national policies and intervention strategies to cope with challenges such as drugs, alcohol, violence, road safety, and health.

### **Prof. Elie Holzer**

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Elie Holzer is a practice-oriented philosopher of Jewish education. His research integrates text-based Jewish studies, philosophical hermeneutics, pedagogy, and ethical-spiritual traditions.

**Keywords:** Jewish education, Jewish learning, Havruta text study, Spiritual pedagogy and Hasidic texts, Teacher education, Philosophical hermeneutics, Contemporary Jewish thought.



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Cognitive modifiability in children with special needs; Emotional factors and mother-child mediated learning experience interactions; Inclusive education.

**Keywords:** Cognitive modifiability, Mediated learning experience, Inclusion.

### **Dr. Atara Isaacson**

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Nineteenth-century music, aesthetics of the Romantic Era, vocal genres and piano music, music education, Israeli song, alternative teaching methods, navigation in the classroom, discipline problems, teacher-student relationships, and methodology of education.

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Children's early literacy development and enhancement. Technology as a support for early literacy development in diverse communities, especially with children from low SES groups.

**Keywords:** Emergent literacy, Early literacy, e-book, Young children, Early language and literacy interventions.

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Mathematical education; Meta-cognition and self-regulation in learning and teaching; Technology in learning and teaching; Teachers professional education; Video and simulations for enhancing teachers expertise.



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Language and communication, communication literacy.

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Aging in a population of developmental disability. Cognitive modifiability of individuals with intellectual disability (ID) throughout life span. Information processing, memory and meta memory in an ID population. Emotional intelligence and social cognition of individuals with ID. Attitudes towards disability in various sectors of the Israeli society.

**Keywords:** Special Education, Cognition changes, Aging of individuals with intellectual disability, Social attitudes to disability.

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The role of motivational processes in engagement and performance within various educational contexts, including formal and informal education. Interested in contextual factors (such as classroom goal structure, teacher gender and expectations) and personal attributes (such as personal epistemological beliefs and perfectionism), which affect students' motivation, self-regulated learning strategies and performance in school. Current research is focusing on identifying contextual factors promoting adaptive school transitions from elementary to middle-school. Studies are based primarily on the theoretical frameworks of Achievement Goal Orientations and Expectancy-Value Theory.

**Keywords:** Personal academic motivation, Social motivation, Learning.

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Neural bases of non-literal language comprehension. Semantic processing at the word, sentence, and text level. Using transcranial direct current stimulation (tDCS) to enhance language and cognitive performances in aphasia and schizophrenia. Neural intervention programs to enhance figurative language comprehension in special populations including children with autism, schizophrenia, and intellectual disability. Language processing and brain asymmetry in the aging brain. Cognition and emotion: brain processing of positive and negative linguistic stimuli. Verbal creativity in special populations.

**Keywords:** Cognitive science, Behavioral measurements, Language processing, Special education.





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Meta-cognition, mathematics education.

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Meta-cognition and self-regulation in learning and teaching; Technology in learning and teaching; Teachers professional education; Video analysis and professional vision (PV) for enhancing teachers' expertise.

**Keywords:** SRL, SRL Teaching, Developing TPCK (Technological Pedagogical Content Knowledge), Teachers' PV.

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Virtual Reality and Education. Brain Computer Interface and Education. Future Technologies and their impact on Educational Systems. Future Cognitive Skills.

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Jewish/educational thought; media images of education.

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School effects on adolescent identity development; Jewish religious education. Work and family in the plans of adolescents and emerging adults.

**Keywords:** Adolescence, Identity development, Jewish education, Adolescent future planning.



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Non-formal education, qualification of workers and residential schools; youth in distress, training workers and therapeutic interventions; classroom management, educational psychology, psychological assessment, custody cases and psychological characteristics of dropout and delinquent adolescents.

### **Dr. Elli Schachter**

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Theories of identity development; identity development and education; teachers and parents as agents of students' and children's identity formation, students' significant teachers and educational experiences.

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Learning from success, Organizational learning, professional learning community, system thinking, leadership, and qualitative research.

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Cognitive and linguistic aspects among readers with dyslexia, and Specific Language Impairment. Investigates implicit cognitive and language processes such as: Artificial Grammar, Procedural Memory, Mental lexicon (phonological, morphological, semantic and orthographic priming), as well as explicit processes such as: phonological, morphological and syntactical awareness and executive function abilities. The interrelationship of cognitive and linguistic aspects and socioeconomic status.

**Keywords:** Special Education, Cognition, Linguistics, Dyslexia, Cognitive and language processes, Mental lexicon, Socioeconomic status.



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Prof. Shafran's areas of expertise are: general medical ethics and medical ethics in light of Jewish Halacha. This area includes: ethical dilemmas related to the human genome, neuroscience, transplantation, and determination of death, bedside manner, terminally ill patients, and more. In addition, he specializes in education and training of teachers in Judaism, halachic issues and modern science.

**Keywords:** Medical ethics, Jewish Halacha, Education, Teacher training, Modern Science.

### **Prof. Adina Shamir**

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Cognitive and metacognitive development with new technologies using an Interdisciplinary approach that combines technology, special education and early childhood education.

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Leadership and management in educational systems. Organizational ethics; Ethical dilemmas in educational systems, Authentic leadership. Mentoring in educational systems, Simulation-based workshops. Teachers' withdrawal behaviors (lateness, absenteeism, intent to leave and turnover). Organizational Citizenship Behaviors (OCB) in educational systems, Ethical aspects and parental involvement in international assessment tests (TIMSS).

**Keywords:** Leadership, Organizational ethics, Education systems, Teachers' behavior, Parental involvement.



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Development of scientific literacy and scientific curiosity among young children; Development of engineering thinking among young children; Science education in Pre-school: Professional development programs for preschool teachers; Professional development and teaching strategies of middle school science teachers; Science teaching in the inclusive classroom - Scaffolding students with learning disabilities in science lessons; The impact of Information and Communication Technologies (ICT) in science classes; Teaching and learning science in 1 to 1 classes, (Ubiquitous Computing).

**Keywords:** Scientific education, Scientific curiosity, Preschool science, Emergent engineering, Science in the inclusive classroom, ICT in science classes, Professional development of science teachers.

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The understanding of causality by young children; The understanding of causality by young children with special needs; Reading comprehension of children with a hearing impairment.

**Keywords:** Pediatric comprehension, Special needs, Causality, Hearing impaired children.

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Dynamic Assessment of Learning Potential. Emotional understanding of children with specific learning disabilities. Psychological resilience and mediated learning. Cognitive Education Programs: Instrumental Enrichment, Bright Start, Peer-Mediation with Young Children (PMYC), Cognitive Modifiability Battery, Analogical Reasoning Program. Mother-Child Mediated Learning Experience Interactions. Cognitive modifiability. Peer and Sibling mediation as related to cognitive modifiability. Ego Identity Processes in Adolescence. Spatial Abilities: Development, Eye tracking correlates, Gender Differences. Working memory training.

**Keywords:** Dynamic assessment of learning potential, Cognitive modification, Learning disabilities, Special education, Child development.



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My main research interest is in cognitive load in learning and instruction and in decision making in education and the managerial field. I work on creating psychological availability and mindfulness in order to reduce load. I am also engaged in topics related to learning and instructional skills.

**Keywords:** Cognitive load, Decision making, Education, Mindfulness, Instructional skills.

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Youth at risk, school violence, effective education. Simulation in education.

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Cognitive and meta-cognitive processes of reading comprehension (e.g., inferences, working memory, motivation), specific reading comprehension deficit, eye-tracking during reading, computational modeling of reading.

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Analytical Modeling in Dynamic and Competitive Marketing Strategies (Pricing, Advertising, Promotion, Product, Place). Specific Topics: Closed-Loop Advertising (Promotional) Strategies (new methodology); Advertising (Promotional) Budget Allocation (with respect to: Media, Time); Managing Threat of Entry; Customer Retention and Acquisition; Service Marketing; Network Service; Online and Offline Distribution; Customer Relationship Marketing; New Product Design; Brand, Country and Price Image; Pharmaceutical Marketing.

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Domestic violence, implications of treating trauma victims for therapists: secondary traumatization, burnout, and growth, evaluation of shelters for women victims of violence.

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Developmental transitions in family life, parenthood and parent-child relationships adolescence, adolescents, media coverage of issues relating to treatment of children and youth. Fertility treatments.



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Personal, family, and social aspects relating to children and adults with physical or developmental disabilities, intergenerational family relationships from the perspective of grandparents / second generation / grandchildren, personal and family growth in the face of stress and crisis, rights of persons with disabilities – a cross-cultural perspective.

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Quality of life and community integration among persons with disabilities, services and intervention programs for persons with disabilities, coping with disability throughout the life cycle, disabled IDF veterans as a unique group.

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Social work in health care; social determinants of health; socio-economic inequality in physical and mental health; health behavior; adaptation to illness and to stress situations; personal resources, social support, and coping strategies; family caregivers, elderly patients.

**Keywords:** Social work in health care, Social determinants of health, Health inequalities, Coping with stress, Family caregiving.



## The Louis & Gabi Weisfeld School of Social Work

### **Prof. Moshe Halevi Spero**

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Theoretical and clinical psychoanalysis, the religious process in psychoanalysis, methods of measurement and the use of quality in object relations, interpretive inference.

### **Dr. Shiri Shinan-Altman**

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Illness representations, Formal and informal caregiving, Psychosocial adjustment of patients after unique interventions, End of life care, Professional burnout.

### **Prof. Orit Taubman Ben-Ari**

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The psychology of risk taking and reckless driving, with emphasis on adolescents and young adults, positive psychology – particularly personal growth in the wake of life transitions, terror management theory: the effects of awareness of death on various areas of life, e.g., risk taking, meaning in life, interpersonal relationships, and decision making, the intergenerational relationship and transmission of coping abilities, reckless behavior, transition to parenthood.

**Keywords:** Psychology of risk taking, Adolescents, Terror management theory, Life transitions, Coping abilities.

### **Dr. Tova Yedidia**

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Group therapy, development of creative tools in therapy, supervision, teaching and research, the use of drawing as a research tool, couples, family and adolescent therapy.

### **Dr. Miriam Zivony**

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Intergenerational relationships and the elderly, residential facilities for the elderly, multigenerational families, cultural diversity and social work practice.



Faculty of Law



## Faculty of Law

### **Prof. Michal Alberstein**

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Theories of law and mediation, law and film, jurisprudence, legal, medical, and cultural perspective of trauma, restorative justice, judicial conflict resolution, legal formalism, empirical study of law.

### **Dr. Ori Aronson**

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Courts and civil procedure, constitutional law and theory, pluralism, institutional design

### **Dr. Adi Ayal**

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*Former head of the Public Commission on Television Productions (appointed by the Minister of Communications), and Founder of the Legal Excellence Program, which organizes multiple volunteer activities within and outside of the university.*

Antitrust (competition) policy, corporate law, law and economics, telecommunications. Unique research technique: economic modeling of legal institutions, philosophical assessment of assumptions implicit to legal policy.

### **Prof. Avi Bell**

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Property law, intellectual property law, public international law, public law, and economic analysis of law. Government takings of property and territorial sovereignty.



## Faculty of Law

### **Dr. Ittai Bar-Siman-Tov**

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Constitutional law; constitutional theory; legislation; legisprudence (legislation theory); the legislative process; judicial review (and models of judicial review); the impact of judicial review on legislative behavior; content-analysis of legislative debate; quantitative, qualitative and computer-based content-analysis methods; constitutional remedies; the interaction of law and time (temporal effects of judicial decisions; temporary legislation).

**Keywords:** Legislative process, Constitutional law, Legisprudence, Theory and practice of legislation, Temporary legislation.

### **Prof. Ariel L. Bendor**

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Constitutional law, administrative law, the interface between constitutional and administrative law and other fields of law, comparative law.

### **Dr. Ziv Bohrer**

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International Criminal Law, Public International Law, International Humanitarian Law (Law of War). Conducting ongoing research on the forgotten, centuries-long, pre-WWII history of international criminal law.

### **Prof. Yitzhak Brand**

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Law and religion – Halakha as a religious legal system; Contracts law in the Talmudic research; Property law in the Talmudic research; Philosophy of Halakha. The research method is a combination between the philological-historical method (Talmudic research), with the dogmatic-analytical method (law studies).





## Faculty of Law

### **Prof. Tsilly Dagan**

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Tax policy, international tax policy, international tax, globalization and tax competition.

### **Dr. Hadar Dancig-Rosenberg**

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Criminal law theory and moral philosophy, criminal justice, restorative justice, victims' rights and therapeutic jurisprudence, constitutionalization of criminal law, empirical criminal law, criminal law and gender theories.

### **Prof. Yuval Feldman**

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Law and behavioral economics, law and psychology, ethical decision-making, employment law. Empirical and experimental legal studies; traditional and non-traditional enforcement mechanisms.

### **Dr. Ya'akov Habba**

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Jewish criminal law, Jewish evidence law, Jewish torts law.

### **Prof. David Hahn**

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Bankruptcy law, corporate liquidation and reorganization, individual bankruptcy theory and policy considerations, corporate law.

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Family law, feminist jurisprudence, bioethics.



## Faculty of Law

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Legal history, comparative law, history of legal theory, Israeli history.

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Commercial law (banking, commercial paper, financial transactions, secured transactions, assignment of debts) and property.

### **Prof. Shahar Lifshitz**

*Dean of law school*

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Contract law, family law, multicultural society and law, cohabitation, marital property, Jewish and democratic state, interpretation, Human capital divorce settlements, human rights and Judaism.

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Tax Policy, Corporate Law, Law and Economics and Philosophy of Law.

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Jewish law, Jewish thought, political philosophy, philosophy of law.

### **Dr. Miriam Marcowitz-Bitton**

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Intellectual property law, law and technology, law and economics of intellectual property, property.



## Faculty of Law

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Taxation, fiscal policy, welfare policy, law and economics, regulation.

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Property and intellectual property theory, tort law, contract law, internet law, corporate law and securities regulation.

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Environmental law, international trade and globalization, torts, legal theory and E-democracy.

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Talmudic law, history of Jewish law research, Israeli legal history, rabbinical courts, Jewish family law.

### **Dr. Shiri Regev-Messalem**

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Welfare law, sociology of law, law and Society, law and social change, clinical legal education, empirical legal research, gender and law, law and poverty, law and older persons.

**Keywords:** Welfare Law, Law and Society, Empirical study of law.

### **Prof. Arie Reich**

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International economic law, international trade law, European Union law, arbitration law, in particular international commercial arbitration, public procurement law, competition law. Legal, soft economic and political and institutional analysis.



## Faculty of Law

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Constitutional law, with a focus on religion-state issues and constitutional theory.

### **Dr. Haim Shapira**

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Jewish law, Jewish history, jurisprudence.

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Ethics, including the normative factors and their foundations. Philosophy of law and legal theory, including general jurisprudence, the philosophical foundations of the common law, and constitutional theory. Social and political philosophy.

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Public International Law, International Economics Law, International Trade Law, International Courts and Dispute Settlements, Global Governance, Empirical Legal Studies.

### **Dr. Benjamin Shmueli**

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Tort law, domestic violence, parent-child relations, comparative law, the intersection between tort law and family law, tender law \ procurement law, and Jewish law.

### **Dr. Shai Stern**

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Property law and theory, Zoning law, Urban planning and the law, Private law, Law and Society, Human rights and collective rights, Communities and the law.



## Faculty of Law

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Corporate law, corporate acquisition, corporate finance, corporate governance, religion and state, Jewish law.

### **Prof. Yaffa Zilbershats**

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International law, constitutional law, freedom of movement, citizenship, immigration law.

### **Prof. Zvi Zohar**

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The sociology, anthropology, and history of Jewish law and halakha, the culture and creativity of Sephardic-oriental rabbis in modern times, the history of the Jews of the Middle East in modern times.



## Interdisciplinary Programs

Brain Sciences  
Science, Technology & Society  
Conflict Management, Resolution and Negotiation  
Hermeneutics & Cultural Studies  
Gender Studies



## Brain Sciences

### **Prof. (Em.) Moshe Abeles**

E-mail: [Moshe.Abeles@mail.biu.ac.il](mailto:Moshe.Abeles@mail.biu.ac.il)

Development of novel methods of analysis for MEG recordings. Use of these methods for real-time analysis of inter-cortical coordination during execution of higher brain functions. Specific application of the methods for studying musical perception.

**Keyword:** Brain research.

### **Prof. Moshe Bar**

E-mail: [Moshe.Bar@biu.ac.il](mailto:Moshe.Bar@biu.ac.il)

Predictions in the brain, the flow of information in the cortex during visual recognition and conscious perception, contextual associative processing of scene information, the cortical mechanisms mediating the formation of first impressions, and the visual elements that determine human preference. Prof. Bar's interests encompass a wide range of domains from episodic memory and spatial cognition, to the cognitive neuroscience of major depression.

**Keywords:** Visual cognition, Memory, Mood disorders.

### **Prof. Izhar Bar-Gad**

E-mail: [Izhar.Bar-Gad@biu.ac.il](mailto:Izhar.Bar-Gad@biu.ac.il)

System neurophysiology of the basal ganglia in health and disease.

**Keywords:** Parkinson's disease, Tourette syndrome, tic disorders, Attention deficit hyperactivity disorder (ADHD), Oscillations, Computational neuroscience, Basal ganglia, Electrophysiology, Extracellular recording, Rodents, Deep brain stimulation (DBS), Statistical analysis of neural data.

### **Prof. Gal Chechik**

E-mail: [Gal.Chechik@biu.ac.il](mailto:Gal.Chechik@biu.ac.il)

Learning in brains and machines. Developing the theory and analyzing experimental data to learn how brains develop, perceive and learn from experience. We aim to understand the algorithms that the neural substrate implements to learn from experience, and apply learning algorithms to solve perception problems. We use a range of techniques, from analyzing gene expression in the brain, to large-scale machine learning algorithms including deep neural networks.

**Keywords:** Computational neurobiology, Data-driven models, Complex adaptive systems, Biological systems.



## Brain Sciences

### **Dr. Dana Cohen**

E-mail: [Dana.Cohen@biu.ac.il](mailto:Dana.Cohen@biu.ac.il)

Neuronal mechanisms of learning and behavior in healthy animals and in animal models of neurodegenerative diseases.

Methods: electrophysiological recordings from multiple single neurons in several brain regions in the relevant network.

**Keywords:** Brain research, Neural cognition, Behavioral plasticity.

### **Dr. Rafi Haddad**

E-mail: [rafi.haddad@biu.ac.il](mailto:rafi.haddad@biu.ac.il); [rafihaddad@gmail.com](mailto:rafihaddad@gmail.com)

Neural Coding, Odor processing. Electronic noses.

### **Prof. Hamutal Slovin**

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Neural mechanisms underlying visual processing and visual perception in behaving animals. Stimulus reconstruction and image decoding from neuronal population signals in the visual cortex. Stimulating the visual cortex for artificial vision and neuroprosthetics. Investigation of the neuronal population response mediating higher cognitive functions: visual attention, recognition, perceptual learning. Long-term optical imaging using voltage-sensitive dyes and intrinsic signals in behaving animals combined with electrophysiological recordings.

**Keywords:** Neural imaging, Visual system.

### **Dr. Edward Z. Stern**

E-mail: [Ed-Zeev.Stern@biu.ac.il](mailto:Ed-Zeev.Stern@biu.ac.il)

Neuronal circuitry and neurodegenerative disease. Studies of the effect of neurodegenerative disease pathology on the structure and function of nerve cells. By measuring the pathophysiology of the cells during the progression of the disease process, it is possible to design therapeutic approaches to ameliorate the effects of the pathology on the neuronal network, and to restore function to that seen in the healthy brain.





## Brain Sciences

### **Dr. Adam Zaidel**

E-mail: [Adam.Zaidel@biu.ac.il](mailto:Adam.Zaidel@biu.ac.il)

The neural bases of multisensory perception: Dr Zaidel's research is directed towards understanding how the brain simultaneously processes, filters and combines information from multiple sources, to achieve perception, decision making and behavior. Specifically, the brain's ability to integrate external stimuli (input via our various senses) together with internal variables (e.g., expectations, prior knowledge about the world, and personal goals). Beyond its importance in understanding the healthy brain, Dr Zaidel is interested in study how the important functions break down in disorders such as autism and Parkinson's disease.

**Keywords:** Multisensory, Perception, Bayesian, Systems neuroscience, Electrophysiology, Vestibular, Autism, Parkinson's disease, Psychophysics.

### **Dr. Elana Zion – Golumbic**

E-mail: [Elana.Zion-Golumbic@biu.ac.il](mailto:Elana.Zion-Golumbic@biu.ac.il)

The Human Cognition and Neural Dynamics. Research in the Human Brain Dynamics Lab focuses on the neural mechanisms underlying the encoding and processing of natural continuous stimuli, such as natural speech and music, as a means for understanding how the brain deals with the inherent dynamics and complexity of real life environments. One main research focus is the way different levels of information in complex stimuli are encoded, and how the temporal dynamics of stimuli shape their neural representation. In addition, we are interested in how top-down processes, such as attention, shape and change the neural representation of sensory input. Our research utilizes a range of techniques for recording electric and magnetic signals from the human brain (EEG, MEG and ECoG), which provide excellent means for investigating the complex neural dynamics involved in encoding and processing speech and other naturalistic stimuli.

**Keywords:** Human cognitive neuroscience, Brain dynamics, EEG, MEG, Attention, Auditory, Speech, Virtual reality.



## Science, Technology & Society

### **Dr. Raz Chen-Morris**

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Renaissance and Baroque science, with a particular interest in Kepler's optics and scientific perspective.

### **Dr. Noah Efron**

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History of Jews in science and in the constitutive role of biotechnology in modern culture.

### **Prof. Oren Harman**

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History and philosophy of modern life sciences, with a focus on evolutionary theory, genetics, and brain science.



## Conflict Management, Resolution and Negotiation

### **Prof. Michal Alberstein**

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Theories of law and mediation, law and film, jurisprudence, legal, medical, and cultural perspective of trauma, restorative justice, judicial conflict resolution, legal formalism, empirical study of law.

### **Prof. Jay Rothman**

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Conflict resolution; identity-based conflict and cooperation; multi-party mediation and facilitation; conflict coaching; action research and evaluation.

### **Dr. Amira Schiff**

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Conflict resolution and conflict management, ethno-national conflicts, peace processes.

### **Prof. Ephraim Tabory**

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Sociologist and social psychologist specializing in religious conflict and identity. Prof. Tabory's research deals with intergroup relations between religious and nonreligious Jews, religious denominations and conflict emanating from religious change.

**Keywords:** Religious identity, Religious conflict, intergroup relations, Relations between religious and nonreligious Jews, Jewish denominations.



## Hermeneutics & Cultural Studies

### **Dr. Aner Govrin**

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Psychoanalysis and philosophy: In particular the influence of postmodernism and hermeneutics on the practice of psychotherapists and how psychoanalytic communities build their knowledge. Moral psychology: the building blocks of right/wrong judgments and how they evolve through the infant-caregiver dyad.

### **Prof. Bernard D. Hercenberg**

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Aesthetics, separation and the creative process. Heidegger and his philosophy of Zusammenhang and Zerrissenheit as a parameter for the understanding of situations, art objects, and nature. The relationship between nature and culture.

### **Dr. Dorit Lemberger**

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Philosophy of language: American pragmatism and linguistic self-constitution. Literary criticism: Modern Hebrew literature, literature and psychoanalysis.

### **Prof. Ronny Miron**

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Continental Philosophy, in particular, German post-Kantian thinking until the first half of the 20th century. This entails the philosophical traditions of idealism, existentialism, phenomenology, hermeneutics, psychoanalysis, and modern psychiatry.

### **Dr. Liran Razinsky**

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French literature (mainly 20th century literature), comparative literature, French thought, psychoanalysis.



## Hermeneutics & Cultural Studies

### **Prof. Avi Sagi**

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Continental philosophy, phenomenology and existentialism, hermeneutics, the relationship between religion and morality, political thought, Identity, toleration, Pluralism and Multiculturalism, Contemporary Jewish philosophy, philosophy of Halakhah, critical and cultural theory. Philosophy and Literature.

### **Dr. Hizky Shoham**

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Cultural history of Zionism and Israel and cultural theories.



## Gender Studies

### **Prof. Rachel Ben-Ari**

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Enhancing education in heterogeneous schools, intergroup relations, psych-social aspects of conflict management, negotiation and mediation.

### **Dr. Lyat Friedman**

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Continental philosophy, phenomenology, postmodern philosophy, feminist philosophy, philosophy of art, with an emphasis on Gilles Deleuze's work. In addition, cultural studies, critical thinking, gender studies, psychoanalytic theory, film theory, queer studies and postcolonial thinking, focusing on the question of "What is the work of criticism?"

### **Dr. Anat Herbst**

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Welfare policies; Public policy; Gender aspects of the welfare state; Gender aspects of the social security system.

### **Dr. Ronit Ir-Shai**

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Feminist critique and Jewish law (Halakhah); Jewish bioethics from a gender perspective; rape crimes in Jewish law; religious feminism and its theological challenges; gender essentialism in modern responsa literature.

**Keywords:** Religious feminism, Gender, Halakhah, Jewish bioethics, Jewish law. Jewish feminist theology.



## Gender Studies

### **Dr. Danny Kaplan**

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Masculinity Studies; The sociology and anthropology of emotions; National solidarity through the prism of friendship and intimacy; Israeli masculinity, militarism, civic associations, media and popular culture.

### **Prof. Orna Sasson-Levy**

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Gender and militarism: construction of military gender identities, masculinities, gender integration in the military, military service and citizenship. Ethnicity: Ashkenaziyut, intersectionality of gender and ethnicities in the military. Social movements: gender and new social movements. Feminist theory: gender separation, women's exclusion, social responsibility for gender equality in Israel.



## List of Researchers





## Faculty of Exact Sciences

### Department of Chemistry

Prof. Amnon Albeck  
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Prof. (Em.) Shmaryahu Hoz  
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## Department of Computer Science

Dr. Noa Agmon  
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Prof. Tali Kaufman  
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Prof. Moshe Lewenstein  
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## Department of Mathematics

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Prof. Andrei Lerner  
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Dr. Assaf Rinot  
Prof. Yuval Roichman  
Prof. Louis Rowen  
Prof. Malka (Mary) Schaps  
Dr. Michael Schein  
Prof. Jeremy Schiff  
Prof. (Em.) Steven Shnider  
Prof. Leonid Shuster  
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