

CURRICULUM VITAE

Stephen T.C. Wong, Ph.D.

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A. GENERAL INFORMATION

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URL:

<https://www.houstonmethodist.org/our-research/cancer/systems-medicine-bioengineering-smab/>

<https://www.houstonmethodist.org/for-health-professionals/department-programs/ting-tsung-wei-fong-chao-center-for-brain/>

https://www.houstonmethodist.org/faculty/stephen_wong/

<https://scholar.google.com/citations?user=C2gJxXYAAAAJ&hl=en>

Citizenship: USA

B. EDUCATIONAL BACKGROUND

Education

<i>Degree</i>	<i>Institution name, city and state</i>	<i>Dates Attended</i>	<i>Year Awarded</i>
B. Engineering in Electrical Engineering, Department of Electrical and Electronic Engineering (Hons.)	University of Western Australia, Perth, Australia	1980-1983	1984
M.Sc. Computer Science Dept of Electrical Engineering and Computer Science (EECS)	Lehigh University, Bethlehem, PA	1987-1989	1989
Ph.D. Computer Science (AI) Dept. of EECS	Lehigh University, Bethlehem, PA	1989-1991	1991

Senior Executive Education:

Certificate, Senior Executive Program: Managing Technical Professionals & Organization	MIT Sloan School of Management, Cambridge, MA		1999
Certificate, Senior Executive Program: Product Design, Development & Management	MIT Sloan School of Management, Cambridge, MA		1999
Certificate, Senior Executive Program: Negotiation & Influence Strategies	Stanford Graduate School of Business, Stanford University Palo Alto, CA		1999
Certificate, Senior Executive Program: Emerging Leader Development	Columbia Business School, Columbia University New York, NY		1999
Certificate, Senior Executive Program: Program, Financial & Accounting, Executive	Columbia Business School, Columbia University New York, NY		2000
Certificate, Senior Executive Program: Advanced Negotiation Executive Program	Stanford Graduate School of Business, Stanford University Stanford, CA		2001
Certificate, Senior Executive Program: Growing Companies (EPGC)	Stanford Graduate School of Business, Stanford University Stanford, CA		2002
Certificate, Senior Executive Program: Advanced Leadership Program for Asian-American Executives	Stanford Graduate School of Business, Stanford University Stanford, CA		2014

C. PROFESSIONAL POSITIONS AND EMPLOYMENT

Post-doctoral training including residency/fellowship

<i>Title</i>	<i>Institution Name, city and state</i>	<i>Dates</i>
Japan Program Fellow	National Science Foundation (NSF), USA	1992
STA Research Fellow in Artificial Intelligence (AI)	Science and Technology Agency (STA), Japan	1992

Academic positions (Research and Teaching)

Current

<i>Title</i>	<i>Institution Name, city and state</i>	<i>Dates</i>
Adjunct Professor of Health Information Sciences	University of Texas Health Sciences Center at Houston	2007-date
Full Member	Houston Methodist Research Institute, Houston, TX	
Professor of Radiology	Weill Cornell Medicine, Cornell University New York, NY	2008-date
Founding Director	TT and WF Chao Center of Bioinformatics Research and Imaging in Neurosciences (BRAIN) Houston Methodist Research Institute	2009-date
Adjunct Professor	Cellular and Molecular Biology Graduate Program, Baylor College of Medicine, TX	2009-date
Adjunct Professor	NCI Comprehensive Dan L Duncan Cancer Center, Baylor College of Medicine, TX	2009-date
Professor of Neuroscience	Weill Cornell Medicine, Cornell University, New York, NY	2009-date
Professor of Pathology and Laboratory Medicine	Weill Cornell Medicine, Cornell University, New York, NY	2010-date
Chief Research Information Officer	Houston Methodist Hospital, Houston, TX	2009-date
Adjunct Professor of Health Informatics	Tecnológico de Monterrey, Monterrey, Mexico	2009-date
Adjunct Professor	Cellular and Molecular Biology Department, Baylor College of Medicine (BCM)	2011-date
Adjunct Professor	Department of Interventional Radiology, University of Texas MD Anderson Cancer Center	2011-date
Faculty member	Computational and Integrative Biomedical Research Center, Baylor College of Medicine, Houston, TX	2011-date
John S Dunn Presidential Distinguished Chair in Biomedical Engineering	Houston Methodist Hospital, Houston, TX	2011-date

Professor of Systems Medicine & Bioengineering	Institute of Academic Medicine, Houston Methodist Hospital Houston, TX	2014-date
Adj Professor of Biomedical Informatics, Neuroscience & Experimental Therapeutics	Texas A&M Health Sciences Center, TX	2015-date
Visiting Professor	Department of Neurology, Guangzhou Medical University, Guangzhou, PR China	2017-2020
Adj Professor	Department of Biomedical Engineering, Texas A&M University, TX	2021-date

Previous

Assistant Professor of Radiology, Neurology, Biomedical Informatics, and Bioengineering	The University of California, San Francisco (UCSF) School of Medicine, SF, CA	1993-1996
Assistant Professor	UCSF/UC Berkeley Bioengineering Graduate Program	1994-2002
Assistant Adjunct Professor (Part-time)	UCSF School of Medicine, SF, CA	1996-2002
Associate Professor of Radiology	Brigham & Women's Hospital, Harvard Medical School, Boston, MA	2002-2007
Vice Chair of Radiology	Houston Methodist Hospital	2007-2012
ZiQiang Visiting Professor	Shanghai University, Shanghai, P. R. China	2007-2011
Adjunct Professor of Mechanical Engineering	University of Houston Houston, TX	2008-2015
Adjunct Professor of Bioengineering	Rice University Houston, TX	2008-2014
Faculty member	Structural and Computational Biology and Molecular Biophysics Program, Baylor College of Medicine	2008-2017
Visiting Professor	Department of Radiology, Southeast University School of Medicine, Nanjing, P. R. China	2008-2012
Director of Translational Research	Houston Methodist Cancer Center, Houston, TX	2009-2017
Adjunct Professor of Electrical and Computer Engineering	Rice University, Houston, TX	2009-2017
Visiting Professor	Vocational Training Council, Hong Kong, SAR, China	2011-2013

Visiting Professor	School of Information Science and Technology, University of Science and Technology of China Hefei, PR China	2013-2016
Visiting Professor	Chinese Academy of Sciences, Hefei, PR China	2015-2018

Hospital positions (attending physician, if applicable)

<i>Title</i>	<i>Institution Name, city and state</i>	<i>Dates</i>
Director, Informatics Development	Houston Methodist Hospital, Houston, Texas	2015-2019
Chief Research Information Officer	Houston Methodist Hospital	2010-date
Chief of Medical Physics	Houston Methodist Hospital	2007-date

Employment (other than positions listed above)

<i>Title</i>	<i>Institution Name, city and state</i>	<i>Dates</i>
Research Associate	Telecommunication Research Lab, The University of Western Australia, Perth, Australia. Designed world's first fully digital optical time domain reflectometers (OTDR) prototype for long distance fiber network attenuation measurement and break points detection across Australia.	1982-83
Technical Staff Member	Hewlett Packard Palo Alto, CA and Singapore. Member for the core engineering team for production automation of printjet (first inkjet) and optoelectronics semiconductor chips	1983-85
Technical Manager & Senior Technical Staff Member	AT&T Bell Labs, USA & AT&T Microelectronics (now Alcatel-Lucent) Member for the Bell Lab research team that developed the world's first VLSI 1 MB DRAM production automation. Headed AT&T factory automation department at AT&T Asia in Singapore	1985-87
NSF Research Fellow	National Science Foundation, NSF Engineering Research Center: Advanced Technology for Large Structural Systems, Lehigh University, PA, USA	1988-91
AI Researcher	ICOT, The Laboratory of the Japanese decade long Fifth Generation Computer Systems Project (ICOT), Ministry of International Trade and Industry (MITI), Tokyo, Japan	1992-93

Research and development of the world's first massive parallel deductive database management system and artificial intelligence algorithms for genomics analysis, natural language processing, and legal reasoning.

Systems Architect	Hospital-Integrated PACS (Picture Archiving and Communication System) Project, the University of California San Francisco Medical Center, SF, CA.	1993-96
	The systems architect for the first hospital-integrated, home-built PACS in the academic medical centers in the United States, connecting the imaging scanners and operations of the four hospitals of UCSF in the San Francisco Bay Area via broadband communication and big image data archives and image diagnostic stations. Published the first book in the field of medical image databases and the most quote scientific paper in medical image compression. PACS transforms the practice of radiology and realizes the digital radiology departments.	
Project Leader & Senior Research Member	Philips Research Palo Alto Center Royal Philips Electronics, Palo Alto, CA, USA	1996-97
	Conducted multimedia research and disruptive applications for Philips Consumer and Healthcare business divisions	
Life Science Tech Advisor	Museum of Innovation, San Jose, CA Representing Hewlett Package in advising the Museum in the topics of healthcare technology, medical engineering, and AI in medicine.	1996-98
Chief Architect; Department Head, Clinical Product Development; & Sr. Director of Engineering	Integrated Clinical Solutions Phillip Medical Systems, Royal Philips Electronics, NV, Best	1996-2000
	Directed the product development of clinical solution departments of Philips Medical Systems/Philips Healthcare of Royal Philips Electronics worldwide (Best, Netherlands). Developed several product lines in medical imaging, electronic medical record, and clinical trial management. Managed about 100 developers, engineers, product managers, clinical specialists and IT staff globally. Implemented the enterprise-wide radiology information management system at APHP (Assistance Publique-Hôpitaux de Paris), a group of 65 hospitals of French government across the metropolitan Paris, one of the largest HMOs of Europe.	
Corporate Vice President	Electronic Brokerage Technology, Charles Schwab & Co., SF, CA, USA	2001-02
	Developed and architected one of the world's first and largest web trading platform, Schwab.com, supporting over 9 million customers worldwide for online trading using more than 3,000 middleware Unix servers, 600 Oracle DBMS servers, and 16 IBM mainframe computers. Directed the electronic brokerage development division for Charles Schwab & Co	

with over 400 developers, product specialists, and project managers.

Founding Director	Center for Bioinformatics, Harvard Center for Neurodegeneration and Repair (HCNR), Harvard Medical School, Boston, MA	2002-07
	Created the first Harvard-wide bioinformatics and multi-omics research program to facilitate neuroscience and neurodegeneration research across Harvard University, Harvard Medical School and 24 affiliated teaching hospitals, including Massachusetts General Hospital, Brigham & Women's (BWH), Boston Children Hospital, Beth Israel Deaconess Medical Center, Dana Farber Cancer Center, etc. Pioneered imaging systems biology for high content drug screening.	
Founding Director	Functional and Molecular Imaging Center, Department of Radiology, Brigham and Women's Hospital, Partners Healthcare, Boston, MA	2004-07
	Strategized and created the Functional and Molecular Imaging Center at BWH and negotiated research collaboration and equipment resource with the vendors. Established the first cyclotron and hot lab facilities, MRI and PET/CT human research imaging facilities, and preclinical optical imaging core at Brigham & Women's Hospital.	
Advisory board	The University of Texas School of Biomedical Informatics Houston, TX	2014-date
Co-founder	Parnassus Medical Systems, Inc., Houston, TX A startup that applies systems biology and artificial intelligence to disrupt as well as to reduce overdiagnosis and overtreatment of cancer.	2016-date
Advisory Board	Health2047 Inc., San Francisco, CA A venture fund company in Silicon Valley seeded by American Medical Association (AMA) to develop, guide, and commercialize disruptive ideas that enhance at the system level the practice of health care.	2016-date
Advisory Board	Akiri Inc., Palo Alto, CA A startup in the Silicon Valley seeded by Celgene to develop Interoperability solutions for sharing healthcare information.	2017-date
Advisory Board	LiLie Lab, Entrepreneurship Initiative, Rice University, Texas A non-profit organization based in Houston, Texas. It focuses on new initiative at the Innovation and Entrepreneurship Program based in Rice University.	2017-2020
Advisory Board	Cure Alzheimer's Fund, Boston, MA, USA A non-profit organization based in Wellesley, Massachusetts. It supports and funds research focusing on understanding and potentially curing Alzheimer's disease.	2017-date

D. LICENSURE, BOARD CERTIFICATION, MALPRACTICE (if applicable)

Licensure

<i>State</i>	<i>Number</i>	<i>Date of Issue</i>	<i>Date of last registration</i>
PA. Registered Professional Engineer Electrical Engineering	PE 041987 E	Sept 1991	Sept 2023

E. PROFESSIONAL MEMBERSHIPS (medical and scientific societies)

<i>Member/officer</i>	<i>Name of Organization</i>	<i>Dates held</i>
Fellow	American Institute for Medical and Biological Engineering (AIMBE)	2021-date
Fellow	Asia-Pacific Artificial Intelligence Association	
Fellow	American Medical Informatics Association (AMIA)	2020-date
Senior Member	Optical Society of America	2020
Fellow	Institute of Electrical and Electronics Engineers (IEEE)	2018-date
Founding Chair	IEEE Biomedical and Health Informatics Technical Committee	2013-2014
Member	Healthcare Information and Management Systems Society (HIMSS)	2011-date
Officer	IEEE Circuit & Systems Society (Governor Board)	2007-2010
Member	American Association for Cancer Research (AACR)	2007-date
Officer	American College of Medical Physicists (ACMP)	2006-2009
Member	American Association of Physicists in Medicine (AAPM)	1995-2017
Member	National Society of Professional Engineering	1991-date

F. HONORS AND AWARDS

	<i>Date awarded</i>
Vacational Scholarship Award, Australian National University, Canberra, Australia	1982
Gleddon Tour Scholarship Award, University of Western Australia, Perth, Australia	1983
NSF-ERC Research Fellowship Award, Lehigh University, PA	1987-1991
NSF Japan Program Award, National Science Foundation	1991-1992
Science and Technology Agency Research Award, Japan	1991-1993
IBM Research Foundation Award	1994-1996
NIH FIRST R29 Award	1995-2000
Whitaker Foundation Bioengineering Research Award	1996-1999
Hewlett Packard Foundation Research Infrastructure Award	1997

Cum Laude Paper/Poster Awards, SPIE Medical Imaging Conferences	1998-2001
Member, NIH/NLM Biomedical Library and Informatics Review Committee (BLIRC)	2002-2006
Member, NIBIB/NLM Biomedical Imaging/Bioengineering Working Group (BIBWG)	2003-2004
Distinguished Master Lecturer, University Systems of Taiwan, Taiwan, ROC	2005-2006
Member, Planning panel on NIH/NLM support for Genomic Science of 21 st Century	2005-2007
Editor, Book series in "Bioinformatics and Biomedical Imaging," Artech House Publishers	
Member, Advisory Board, Institutes of Systems Biology, Shanghai University, Shanghai, PROC	2005-2010
Member, NIH BDMA Study Section and NIH CSR College of Reviewers	2008-2014
John Halter Award for Professional Achievement in Bioinform & Computational Biology, Houston Society of Biomedical Engineering, Texas	2009
John S. Dunn Sr. Presidential Distinguished Endowed Chair in Biomedical Engineering	2009
Editor-in-Chief, Computerized Medical Imaging and Graphics, Elsevier	2010-date
Member, Scientific Advisory Board, ACM/IEEE Trans on Computational Biology and Bioinformatics	2011-2016
University Review Committee, Tempere University of Technology, Finland	2012
Member, Scientific Advisory Board, Center for Medical Imaging, the University of Science and Technology in China, Hefei, China	2012-15
Presidential Award, Houston Methodist Research Institute, Weill Cornell Medical College	2013
Co-Editor-in-Chief, Geometry, Imaging, and Computing, International Press of Boston	2013-date
Member, Scientific Advisory Board and Steering Committee, IEEE Journal of Biological and Health Informatics	2013-date
John S. Dunn Sr. Presidential Distinguished Chair in Biomedical Engineering, Houston Methodist Hospital	2014-date
Member, Institution Review Committee, Institutes of Physical Sciences, Chinese Academy of Sciences, Hefei, China	2014
British Medical Association Medical Book Award, Oncology for <i>Cancer Theranostics</i>	2015
2 nd place prize award, 6 th Silicon Valley Innovations & Entrepreneurship Forum, CA	2016
Member, Advisory Board, School of Biomedical Informatics, University of Texas, TX USA	2016-date
Member, Advisory Board, Health 2047 Inc., an American Medical Association partner partner	2016-date
Member, AACR Breast Cancer Research Grants Scientific Review Committee	2017-date
Member, Advisory Board, Cure Alzheimer's Fund, Boston, MA, USA	2017-date
Member, Advisory Board, Liu Idea Lab for Innovation & Entrepreneurship, Jones Graduate School of Business, Rice University, Houston, TX, USA	2017-2020
Best poster award/travel award, 6 th Annual Houston Methodist Cancer Symposium, TX	2018
Fellow, IEEE (Institute of Electrical and Electronics Engineers)	2018

Fellow, AMIA (American Medical Informatics Association)	2020
Fellow, AAIA (The Asia-Pacific Artificial Intelligence Association)	2021
Fellow, AIMBE (American Institute of Medical and Biological Engineering)	2021
Member, AACR Outstanding Investigator Award for Breast Cancer Research Committee	2021-2023

G. INSTITUTIONAL/HOSPITAL AFFILIATION

Primary Hospital Affiliation: Houston Methodist Hospital

Other Institutional Affiliations:

Weill Cornell Medicine, NYC, NY
Texas A&M University, TX
The University of Texas MD Anderson Cancer Center
The University of Texas Health Sciences Center at Houston
Baylor College of Medicine
The University of Houston

H. EMPLOYMENT STATUS

Name of Employer(s): Houston Methodist Hospital

Employment Status: Full-time salaried at Houston Methodist and Cornell-affiliated hospital

I. CURRENT AND PAST INSTITUTIONAL RESPONSIBILITIES AND PERCENT EFFORT

<i>Teaching (list courses and your role)</i>	<i>Dates</i>
Bioengineering 230C: Medical Physics, UCSF/UC Berkeley Bioengineering Graduate Program, Lecturer	1994-99
Undergraduate Summer Research Experience Course, University of California, San Francisco School of Graduate Studies, Lecturer.	1996-97
Biomedical Informatics 210: Medical Image Informatics, University of California, San Francisco, Lecturer and Chair	1996-98
Biomedical Imaging Course, International Summer School of Medical Informatics, Stanford University.	1996-99
Faculty Member, International Summer School of Medical Information Sciences, Stanford University	1996-99
Special Research Topics, Radiologic Informatics, University of California, San Francisco, Lecturer	1996-2003
Special Research Topics, Bioengineering Program, University of California, San Francisco, Lecturer	1998-2001
Biological & Medical Informatics Seminar Series, University of California,	2000-03

San Francisco, Chair

Biotechnology Entrepreneur Program, Harvard Business School, Boston, MA Guest lecturing MBA students in biotech and healthcare imaging business	2005-06
Molecular Imaging Curriculum, Resident Program Department of Radiology, Brigham and Women's Hospital, Course Chair and teaching Radiology residents in molecular imaging subject	2005-07
Faculty Member, Dana Farber Cancer Institute, Harvard University, Boston, MA Mentoring fellows and residents	2006-07
Seminars, Faculty member, Department of Bioengineering, Rice University, Houston, TX, Lecturer and supervising graduate students	2007-date
Seminars, Faculty member, Department of Mechanical, University of Houston, Houston, TX, Lecturer and supervising graduate students	2008-date
Seminars, Faculty member, School of Biomedical Informatics, University of Texas Health Science Center at Houston, Houston, TX, Lecturer and supervising graduate students	
Seminars and computational biology lectures, Faculty member, Structural and Computational Biology and Molecular Biophysics Program, Baylor College of Medicine, Houston, TX, Lecturer and supervising graduate students	
Seminars, Faculty member, Department of Electrical and Computer Engineering, Rice University, Lecturer and supervising graduate students	2009-date
Seminars, Faculty member, Cellular and Molecular Biology Program, Baylor College of Medicine, Houston, TX, Lecturer and supervising graduate students	
Seminars, Faculty member, Computational and Integrative Biomedical Research Center, Baylor College of Medicine, Houston, TX, Lecturer	2011-date
Lectures, Faculty member, Computational Biology, Baylor College of Medicine, Houston, TX	2012-date
Lectures, Faculty member, Bioethnics, Baylor College of Medicine, Houston, TX	2013-2019
Lectures, Faculty member, Experimental Design Block VI 'Biomedical Informatics', Texas A&M Health Science Center Academy of Physician Scientist Course	2021-date

Graduate Students Mentored/Supervised:

1. Mabel Chew, B.Sc. '93 (UC Santa Barbara), M.Sc. '95, Electrical Engineering (University of Southern California),
Status: Senior Engineering Manager, TRW Aerospace, Inc., Los Angeles, CA. 1994-95
2. Marco Abundo, B.Sc.E.E. '92, Electrical Engineering (RPI), Status: IT
Status: Consultant, San Francisco Bay Area, CA. 1994-95
3. Soo Hoo K. B.Sc., Electrical Engineering (Santa Clare University)
Ph.D. Bioengineering, UCSF. (Thesis Committee)
Status: Director of Technology, Surgery, UCSF 1994-2002

4. Pablo Whaley, B.Sc. '95, Mathematics (UC Berkeley). 1995-96
Status: Patent examiner, USPTO, Atlanta, GA
5. Olivia Velez. B.Sc. '96, Biological Science (Mt. Holyoke College). 1996
Status: Director of IT, a Boston Hospital.
6. Zachary Chun, B.Sc. '96, Neuroscience (Brown). 1996-97
Status: Practicing physician in NYC
7. Donny Tjandra, B.Sc., '95, M.Sc., '99. Computer Science (Haywood State University) 1996-97
(Thesis Committee)
Status: IT consultant, San Francisco Bay Area
8. Ismail Khalil. Ph.D. EECS, (UC Berkeley) Dec. 1998. (Thesis Committee) 1996-97
Status: Radiation Oncology Scientist, Lawrence Berkeley National Lab
9. Campus English, M.Sc., Computer Science (San Francisco State University) 1996-97
Status: Software Developer in SF Bay Area
10. Wan Ching, B.Sc. Civil Engineering, (UC Berkeley) M.Sc., 1999. 1997-99
Computer Science, Golden Gate University.
Status: Senior Developer, Charles Schwab & Co., CA
11. James Z Wang. M.Sc. Mathematics (Stanford University), Ph.D. in 1997-2001
Medical Information Sciences, Stanford University, Stanford University (Thesis Committee)
Status: Professor, School of Information Sciences, Penn State University, PA
12. C.Y. Chang, M.Sc., Industrial Engineering, Da Yeh University, Taiwan 1998-99
ROC, July, 1998 (Thesis Committee)
Status: Production Engineering Manager, Taiwan Steel, Taiwan.
13. Mark Zhang, M.Sc. Biomedical Engineering, ZheJiang University, China 1998-2000
M.Sc., 2000, Graduate Program of Biological and Medical Information
Sciences, UCSF. (Thesis Committee)
Status: CTO, IGG Company, CA
14. H Y Chan, M. Phil., Mathematics, PhD, The University of Hong Kong, Hong 1999-2000
Kong, Sept., 1999. (Thesis Committee)
Status: Maths teacher in a HK high school
15. Richie Lee, M.Sc., Computer Science, San Francisco State University (Thesis Committee) 2000-01
Status: Director, a Pharmaceutical company in Taiwan
16. Lin Shao, MSc., Electrical Engineering (National University of Singapore), 2000-02
PhD in Biological and Medical Information Sciences, UCSF (Thesis Committee)
Status: Postdoc, UCSF
17. Anil Patwardhan. B.Sc., M.Sc. Neurosciences (John Hopkins University), 2000-01
Status: Clinical Biostatistician, Google Life Sciences
18. Stelios Christofides. M.Sc. Computer Sciences (San Francisco State University), 2001-02
Status: Senior Engineering Director, Salesforce.com
19. Ming Zhang, B.Sc., 1996, Computer Science (Xiamen University, China), 2001-03
M.Sc., 2003 Computer Science, San Francisco State University, (Thesis Committee)

- Status: Senior Software Developer, Charles Schwab & Co., SF, CA
20. Tuan Pham. B.Sc. Computer Science (Stanford University), PhD in Biological & Medical Information Sciences Program, UCSF
Status: Bioengineer in the Bay Area 2002-03
 21. Zach Perlman, PhD Cell Biology (Harvard Medical School),
Status: Co-founder, NYrture Food LLC 2003-05
 22. Xiaowei Chen, M.Sc., Computer Science (Utah State University) (Thesis Committee)
Status: Engineering manager of a Microscopy Company in Massachusetts 2003-05
 23. John Chow, B.Sc. Computer Science (U Massachusetts, Boston)
Status: Systems Administrator and Research Programmer, Brigham and Women's Hospital 2003-06
 24. Vaishali Khamamkar, MSc, HCNR-CBI Research Associate, High Content Screening,
Status: SAS Consultant in clinical research, finance and healthcare, Optimal Solutions, Boston 2004-06
 25. Lydia Chennakara, MSc, Bioinformatics,
Status: Bioinformatician, Harvard-MIT Broad Institute, Boston, MA 2004-06
 26. Shan Jiang, MSc, PhD, Department of Computer Science (Tsinghua University, China)
Status: Research Associate, Harvard School of Public Health, Boston, MA 2005
 27. Hongmin Cai, MSc, Department of Mathematics, PhD, The University of Hong Kong (HKU), P R China.
Status: Professor, School of Computer Science and Engineering, South China University of Technology, PR China 2005-06
 28. Yong Zhang, PhD. Department of Electrical Engineering, West Virginia University, Morgantown, West Virginia, (Thesis Committee)
Status: Associate Professor of Computer Science, Weber State University, Utah 2005-07
 29. Chi Pang Tam, M.Sc, Mathematics, PhD, Department of Mathematics, Hong Kong Baptist University. (Thesis Committee)
Status: Scientist in a start-up in HK 2005-06
 30. Kinhong Kan, M.Sc., Electrical Engineering,
Status: IT Consultant in Boston, MA 2005-07
 31. Ju Lu, PhD., Department of Cell and Molecular Biology, Harvard University, Cambridge (Thesis Committee)
Status: Assistant Project Scientist, U of California Santa Cruz, CA 2005-08
 32. Yong Zhang, PhD, Computer Science, University of Western Virginia (Thesis Committee)
Status: Associate Professor of Electrical Engineering, Weber State University, Utah 2005-09
 33. Gang Li, MSc, PhD, Control Engineering, Northwestern Polytechnical U., Xian, PR China (Thesis Committee)
Status: Associate Professor, Department of Radiology, University of North Carolina 2005-09

34. Ranga Srinivasan, MSc, Department of Electrical and Computing Engineering, Northeastern University, Boston (Thesis Committee) 2006-08
Status: Design Engineer, Semiconductor company in Silicon Valley
35. Bo Geng, M.Sc., Electrical and Electronics Engineering (University of Hong Kong) (Thesis Committee) 2006-08
Status: Scientific Officer, Aarhus University, Denmark
36. Jie Cheng, M.Sc. Electrical Engineering, PhD, Northeastern University, Boston, MA (Thesis Committee) 2006-09
Status: Programmer, a Miami IT company
37. Jingzin Nie, MSc., PhD, Control Engineering, (Northwestern Polytechnical U., Xian, China). 2006-09
Status: Professor, Shenzhen University, China
38. Yuan Wang, MSc (Shanghai Jiatong University, China), THMRI, Research Associate in Bioinformatics, PhD, Bioengineering (Carnegie Mellon University) 2007-09
Status: Engineer, dental surgery software firm in Houston
39. Kun Chen, MSc (Zhejiang University, China), TMHRI, Research Fellow in Medical Image Analysis. PhD, Chinese Academy of Sciences, PR China 2007-09
Status: Scientist, Chinese Academy of Sciences, PR China
40. Yubing Chang, M.Sc., PhD, Electrical Engineering (Texas A&M University) 2007-09
Status: Engineer in Taiwan
41. Jing Fan, PhD, Electrical Engineering, Northeastern University, Boston, MA (Thesis Committee) 2007-13
Status: Data science manager, Humana Health Insurance, Kentucky
42. Hua Tan, PhD, Beijing Normal University, Beijing, China 2008-2010
Status: Bioinformatics Scientist, National Human Genome Research Institute (NHGRI), Bethesda, MD
43. Miriam Brandl, M.Sc., Molecular Biotechnology, Technical University of Munich, Ph.D., Bioinformatics, University of New South Wales (Thesis Committee) 2010-12
Status: Research Officer at Children's Cancer Institute, Sydney, Australia
44. Dominik Beck, Ph.D., Bioinformatics, University of New South Wales (Thesis Committee) 2010-12
Status: Associate Professor, School of Biomedical Engineering, University of Technology Sydney, Australia
45. Timothy Liu, B.Sc., Molecular Biology, UC Berkeley 2011-14
Status: Informatics Programmer, Silicon Valley
46. Tian Ding, Ph.D., U Texas MD Anderson Center, MBA, Rice University 2011-12
Status: Sr. Operational Manager, Houston Methodist Research Institute
47. Olen Rambow, M.Sc., Physics, Rice University 2013-14
Status: Maths teacher in a Houston Prep School
48. Cecilia Lantos, PhD, Frontier in life sciences program, Paris Diderot University, France (Thesis Committee) 2013-15

Status: Not known

48. Weng Sheng, M.Sc., PhD, Physics, Rice University 2011-17
(Thesis Advisor)
Status: Sr. Data Scientist, Amazon.com Inc.
49. Kelli Somelar, M.Sc., PhD, Pharmacology, University of Tartu, Estonia 2016-17
Status: Pharmacist, University of Tartu, Estonia

Postdocs and Fellows Mentored/Supervised:

1. Jianguo Zhang, PhD, Optical Physics. Chinese Academy of Sciences 1996-97
Status: Professor, Academia Sinica, Shanghai, China (deceased)
2. Ikram Mohammed, MD, Pediatrics. Status: 1998
Senior Program Manager, General Electric Medical Systems.
3. Huili Wang, PhD. Biomedical Engineering, Duke University 1999
Status: Senior architect and principal engineer, St Jude Medical Systems, CA.
4. Xinhua Cao, PhD, Biomedical Engineering, Xian Jiaotong University, Xian, China 1999-03
Status: IT Manager, Boston Children Hospital Boston, Harvard Medical School
5. Kent Soo Hoo, PhD, Biomedical Engineering, UCSF 2002-03
Status: Director of Technology, Department of Surgery, UCSF, CA
6. Weimin Shen, PhD, Physics, University of Wisconsin 2002-03
Status: Senior Project Manager, Healthcare Software company in Silicon Valley, CA
7. Jinmin Zhu, MD, PhD, Neuroscience, 2003-04
Status: Reviewer, FDA
8. Xiaobo Zhou, PhD, Applied Mathematics, Peking University 2003-07
Status: Endowed Chair Professor, U Texas School of Biomedical Informatics, Houston, TX
9. Kuang Yu Liu, PhD, Medical Genetics, National Taiwan University 2003-05
Status: Independent consultant
10. Tianming Liu, PhD, Computer Science, Shanghai Jiaotong University, 2004-08
Status: Distinguished Chair Professor of Computer Science, University of Georgia, Athens, GA
11. Xiaoyin Xu, PhD, Optical Imaging, University of Minnesota 2004-06
Status: Associate Professor of Radiology, Brigham and Women's Hospital, Harvard Medical School
12. Meng Wang, PhD, Bioinformatics, 2005-06
Status: Unknown
13. Shuqin Zhang, PhD. Mathematics, The University of Hong Kong 2005-06
Status: Professor, Department of Mathematics, Fudan University, Shanghai, PR China
14. Kelvin Wong, PhD, Electrical Engineering, The University of Hong Kong 2005-07
Status: Associate Professor of Radiology, Methodist Hospital-Weill Cornell Medicine

15. Ashley Tarokh, PhD, Electrical Engineering, Northeastern University
Status: Lawyer, a patent law firm in Boston. MA 2005-07
16. Yong Zhang, PhD, Computer Science, University of Western Virginia
Status: Associate Professor of Electrical Engineering, Weber State University, Utah 2005-09
17. Fuhai Li, M.Sc., PhD, Department of Mathematics, Peking University, Beijing, China
Status: Assistant Professor of Pediatrics, Washington University, St Louis, Missouri 2005-11
18. Jian Chen, MD, Molecular Biology, Tonji University Medical School
Status: Professor of Molecular Biology, Tonji University Medical School,
Shanghai, PR China 2006-07
19. Maomao Chloe Cai, MSc. PhD. Maths, West Virginia University,
Status: Associate Professor, Mathematics, Weber State University, Ogden, Utah. 2006-08
20. Hong Zhao, MD, Internal Medicine, PhD, Neurobiology, Fudan University
Status: Scientist and Associate Professor of Systems Medicine and Bioengineering,
Houston Methodist Cancer Center 2006-08
21. Kemi Cui, MD, Chinese Medicine, PhD, Neurobiology, Fudan University
Status: Acupuncturist in Houston 2006-08
22. Yin Zheng, PhD, Institute of Automation, Zhejiang University, China.
Status: Assistant Professor of Computational Biology, HMCC, Weill Cornell Medicine 2006-13
23. Lingyun Wu, PhD Operation Research and Control Theory, Chinese Academy of
Mathematics and Systems Science, PR China. 2007-08
Status: Professor, Chinese Academy of Science, Beijing, PR China
24. Jiacheng Liu, MD, Radiology, Nanking University & PhD, Bioengineering,
Tsinghua University, China 2007-09
Status: Associate Professor in Radiology, Southeast University, PR China
25. Xiaofeng Xia, PhD, Biophysics, Tsinghua University, Beijing, China 2007-09
Status: CEO, Biotech startup in Philadelphia, PA
26. Jiong Xing, MD, Radiology, Suzhou Medical College, China 2007-10
Status: Staff Radiologist and Professor in Radiology, Southeast University, PR China
27. Ronmin Xia, PhD, Bioengineering, Shanghai Jiao Tong University 2007-10
Status: Kansas State University, Associate Professor of Radiation Oncology
28. Nalan Yildirim, MD, Radiology, Uludag University, Turkey 2008-09
Status: Staff Radiologist and Professor of Radiology,
Uludag University School of Medicine, Turkey
29. Zhiyong Wang, PhD Electrical Engineering, Virginia Tech, VA 2008-10
Status: Biophotonics Consultant, Houston
30. Yaliang Yang, PhD Bioengineering, Zhejiang University, China, 2008-10
Status: Professor, Chinese Academy of Sciences, PR China
31. Di Huang, Ph.D., Electrical Engineering, HK Polytechnic University 2008-10

- Status: Staff Scientist, NCBI, NLM, NIH
32. Nie Fang, M.D., PhD, Radiology, Southeast University
Status: Staff Radiologist and Associate Professor, Southeast University Medical School, Njing, PR China 2008-10
 33. Lulu Wang, M.D., PhD, Internal Medicine, University of Shandong, China
Status: Associate Professor in Neuroscience, Beijing, PR China. 2008-10
 34. Shi Peng, PhD, Pattern Recognition, Shenyang Polytech U., China
Status: Associate Professor, Fujian Normal University, PR China 2008-11
 35. Mao Yong, Ph.D., Electrical Engineering, Zhejiang University, China
Status: Vice President, Quartz Core Developer at Bank of America, Merrill Lunch, NYC, NY 2008-12
 36. Peikai Chen, M.Sc., Electrical Engineering, The University of Hong Kong, HK
Status: Staff Scientist, Genome Research Center, The University of Hong Kong, H.K. 2009-11
 37. Liang Gao, PhD, Bioengineering, Rice University (Thesis Committee)
Status: Senior Product Manager, Amazon, Seattle, Washington, US. 2009-12
 38. Guangxu Jin, Ph.D., Applied Math., Chinese Academy of Sciences
Status: Assistant Professor of Cancer Biology, Wake Forest University, NC 2009-13
 39. Miguel Valdivia y Alvarado, MD, Universidad Privada del Valle, Bolivia
Status: Clinical coordinator, Department of Surgery, Houston Methodist Hospital 2009-13
 40. Yongjun Liu, Ph.D., Physics, University of Georgia, Athens, GA
Status: Independent consultant 2010-12
 41. Jaykrishna Singh, PhD, Industrial engineering, University of Houston, Houston, TX
Status: Unknown 2010-12
 42. Ahmad Hammoudi, M.E., Electrical and Computer Engineering, Rice University, MBA
Columbia University
Status: COO, Stake, Dubai, United Arab Emirates 2010-12
 43. Hai Li, PhD, Electrical Engineering, Northwest Polytechnic University, Xian, PR China
Status: Professor and Director of Imaging Research, Chinese Academy of Sciences, Hefei, PR China 2010-13
 44. Yuanxin Chen, PhD, Neuroscience, Fudan University, PR China
Status: Research Associate, Mayo Clinics, FL 2010-13
 45. Jia Xu, PhD, Cellular and Molecular Biology, Rice University, TX
Status: Self-employed 2011-12
 46. Sean Leon Caonguyen, PhD Biomedical Informatics, UCSF
Status: Computer Engineer, Silicon Valley, CA 2011-12
 47. Jie Shen, PhD, Pharmacy, East China University of Science & Technology, PR China
Status: Research Scientist at Eli Lilly & Company, Indianapolis, Indiana 2011-12
 48. Jing Zhong, MD, Fujian Medical University, Fuzhou, China
Status: Associate Professor of Radiology, Fujian Cancer Hospital, Fuzhou, PR China 2011-12

49. Mintao Wang, PhD, Physical Chemistry, University of Alberta, Canada
Status: Staff Chemist in a geoscience company, Houston, TX 2011-13
50. Yuho Hayashi, PhD, Biochemistry, UT MD Anderson Cancer Center
Status: Self-employed 2011-13
51. Linfeng Xia, MD, Zhejiang University, P. R. China
Status: IT entrepreneur, Shenzhen, PR China 2012-13
52. Miao Wang, MD, PhD, UT MD Anderson Cancer Center, Houston, TX
Status: Resident, Pathology, Albert Einstein College of Medicine, NY 2012-13
53. Efren Ballesteros Villagrana, PhD, Physics, University of Houston
Status: Senior Product Manager, Thermo Fisher Scientific, Austin, TX 2012-13
54. Daniel S Robinson, MD, University of Saint Thomas
Status: Hospitalist, The Medical Center of Central Georgia in Macon, GA. 2012-13
55. Shenyi Chen, PhD, Computer Science, Zhejiang University, China
Status: Data Scientist, MD 2012-13
56. Charles Camposano, MD, University of Saint Thomas, Caribbean
Status: Hospitalist, a New Jersey Hospital 2012-14
57. Xiangjian Luo, PhD, Xiangya School of Medicine, Central South University
Status: Associate Professor, Cancer Research Institute, Xianya Medical College,
Central South University, PR China 2012-14
58. Tian cheng He, PhD, EE, Shenzhen University Ph.D
Status: Data Scientist, Houston Methodist Hospital 2010-14
59. Xiaoping Zhu, PhD, Molecular Biology, Osaka City University
Status: Clinical Coordinator, Neuro-oncology clinics, Houston, TX 2011-14
60. Xi Wang, PhD, Physics, Texas A&M University
Status: Scientist, Global Oncology One, College Station, TX 2011-14
61. Mamta Puppala, MSc, University of Madras, MBA, University of Louisiana
Status: Senior Application Analyst, Houston Methodist Hospital 2012-14
62. Rui Zhu, PhD, Genetics, U Texas Health Science Center at Houston
Status: Hospital IT staff, Houston Methodist Hospital 2012-14
63. Jie Cheng, PhD, Electrical and Computer Engineering, Northeastern University
Status: Scientific Programmer, a startup company, Miami, FL 2009-15
64. Jiang Wang, MD, Orthopedic surgery, Huangzhong S&T University Hospital
Status: Associate Professor of Orthopedic Surgery, Tongji University, Wuhan, PR China 2013-15
65. Ren Kong, PhD, Pharmacy, Beijing University of Technology, China
Status: Professor, Jiangsu Polytechnical University, Changzhou, PR China 2011-15
66. Zhengfan Liu, Ph.D., Optical Engineering, Beijing Institute of Technology, PR China
Status: Optical Engineer, Beijing, PR China 2011-15

67. James Mancuso, PhD, Biochemistry, Baylor College of Medicine, TX 2011-16
Status: Program Director and Research Scientist, Jim Allison Lab, Department of Immunology, UT MD Anderson Cancer Center
68. Cong Yang, PhD, Mathematical and Computational Biology, the University of Hong Kong 2012-15
Status: Data Science Manager, LyondellBasell, Houston, TX
69. Richard Federley, PhD, Chemistry, Wayne State University, 2012-15
Status: Assistant Professor, Department of Chemistry, University of British Columbia, Canada
70. Jared Gilliam, PhD, Biochemistry, Baylor College of Medicine, TX 2012-15
Status: Associate Director, Moonshot Program, UT MD Anderson Cancer Center
71. Jiyong Liu, MD, PhD, Shanghai University of Traditional Chinese Medicine 2013-15
Status: Professor of Pharmacology, Second Military Hospital, Shanghai, PR China
72. Huojun Cao, PhD, Biochemistry, U Texas Health Sciences Center at Houston, TX 2013-16
Status: Assistant Professor, University of Iowa School of Dentistry
73. Richard Ogunti, MD, MPH, U Texas MD Anderson Cancer Center 2014-17
Status: Assistant Professor, Mayo Clinics, Rochester USA
74. Zhi Chen, MD, Tonji Hospital, Hua-zhong science and technology University, Wuhan, 2015-16
PR China
Status: Professor and Vice Chair of Orthopedic Surgery, Tonji Hospital, Wuhan, PR China.
75. Yaping Yu, MD, PhD, Xiangya School of Medicine, Central South University, PR China 2014-16
Status: Assistant Professor and Staff OBGYN surgeon, Xiangya School of Medicine
77. Deng Min, MD, PhD, Xiangya School of Medicine, Central South University, PR China 2015-17
Status: Assistant Professor and Staff OBGYN surgeon, Sun Yat-sen University, Guangzhou, P.R. China
78. Desta Hailemariam, Ph.D., Industrial Engineering, State University of New York (SUNY) 2016-17
- Binghamton
Status: Data scientist, Public Health Analytics Inc., Houston, TX
79. Lei Huang, PhD, Applied Mathematics, Peking University, PR China 2015-19
Status: Assistant Professor, Cincinnati Children's Hospital, Ohio
80. Xiaoyun Xu, PhD, Chemistry, University of Utah 2011-18
Status: QC Analytical Scientist, Lonza, Pearland, Texas
81. Risa Myers, Ph.D. Computer Science, Rice University 2016-17
Status: Lecturer, Computer Science Department, Rice University
82. Jun Liu, M.D. Surgery, Shanghai Jiaotong University, Shanghai, PR China 2016-17
Status: Chief, Thyroid and Breast Surgery, Shanghai First People's Hospital, Shanghai Jiaotong University, P.R. China
83. Guihua Li, MD. Neurology, Guangzhou Medical University, Guangzhou, China 2018-date
Status: Staff Neurologist and Assistant Professor, Guangzhou Medical University, China
84. Haowen Nikola Liu, MD, Windsor University School of Medicine, Cayon, St. Kitts & Nevis 2018-date

Status: Startup company in the Silicon Valley.

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| 85. | Xuping Li, PhD, Molecular Biology, Chinese Academy of Sciences
Status: Research Scientist and Assistant Professor, Houston Methodist Academic Institute | 2011-2019 |
| 86. | Jianting Sheng, PhD, Applied Mathematics, Shantong University, PR China
Status: Research Scientist and Assistant Professor, Houston Methodist Academic Institute | 2013-2019 |
| 87. | Ye Wang, MD. Shanghai First People's Hospital, Shanghai Jiaotong University, China
Status: Senior Surgeon, Thyroid and Breast Surgery, Shanghai First People's Hospital, P.R. China | 2018-2019 |
| 88. | Tiancheng He, PhD. Shenzhen University, China
Status: Principal Scientist, Digital Health, Abbvie, Lake Bluff, IL. | 2011-2021 |
| 89. | Nan Xiang, M.Sc, the University of Science and Technology, Hefei, PR China
Status: Assistant Professor, Cancer Biology, Anhui University, Hefei, Anhui, China | 2015-2019 |
| 90. | Yunjie He, MSc, Computer Science, Sorbonne University, Paris, France
Status: Scientific Developer, Houston Methodist | 2018-2020 |
| 91. | Jiasong Li, Ph.D. Bioengineering, University of Houston
Status: R&D Engineer, an Optical Endoscopy company | 2016-2021 |

Current Pre- and Postdoctoral Fellows under supervision:

Dates

- | | | |
|----|--|-----------|
| 1. | Lin Wang, PhD, Applied Mathematics, Peking University, PR China
Research Associate, HMCC
Research Area: Bioinformatics | 2014-date |
| 2. | Yuliang Cao, MSc. Applied Maths, Shantong University, Jinan, P. R. China
Graduate Research Assistant
Research Area: Bioinformatics | 2016-date |
| 3. | Ying Zhu, PhD., Biophysics, Baylor College of Medicine
Postdoc, HMCC
Research Area: Cancer Systems Biology | 2018-date |
| 4. | Xin Wang, MSc, Statistics, Sorbonne University, Paris, France
Graduate Research Assistant, HMCC
Research Area: Bioinformatics | 2018-date |
| 5. | Jonathon S Cummock, BSc, Neuroscience, Brigham Young University, Provo, UT
MD, PhD student, Texas A&M University
Research Area: Medical Imaging | 2018-date |
| 6. | Kai Liu, BSc, Medicine, Xiangya School of Medicine, P.R. China
MD, PhD student, Xiangya School of Medicine, Central South University, P. R. China
Research Area: Cancer Drug Discovery | 2019-date |
| 7. | Pengyu Yuan, PhD student, Electrical & Computing Engineering, | 2020-date |

- The University of Houston, Houston, TX,
Graduate Research Assistant, HMCC
Research Area: Artificial Intelligence in Medicine
8. Rahul Ghosh, BSc, Bioengineering, Washington University in St Louis and
MSc, Material Science, UCLA 2020-date
MD, PhD student, Texas A&M University
Research Area: Medical Imaging
 9. Raksha Raghunathan, Ph.D., Bioengineering, University of Houston 2020-date
Postdoc, SMAB-HMCC
Research Area: Biophotonics
 10. Hung Vo, PhD student, Electrical & Computing Engineering, 2020-date
the University of Houston, Houston, TX,
Graduate Research Assistant, HMCC
Research Area: Artificial Intelligence in Medicine

Administrative duties (including committees)

Dates

Lehigh University

- Graduate Students & Postdoctoral Fellows Council President, NSF-Engineering Research
Center, Lehigh University, Bethlehem, PA 1988-91
- Overseas Students Bible Studies Club President,
Lehigh University, Bethlehem, PA 1988-90

The University of California, San Francisco

- Chair, Radiologic Informatics Seminar Series University of California,
San Francisco 1994-95
- Member, Biomedical Informatics Program Revival Committee, UCSF 1995
- Faculty Member, Biological & Medical Informatics Graduate Program,
University of California, San Francisco 1995-2003
- Faculty Member, Department of Neurology, University of California,
San Francisco 1996-2003
- Chair, Radiologic Informatics Seminar Series, University of California,
Radiology Program Committee and Faculty Mentor, Undergraduate
Summer Research 1996-97
- Experience Program, University of California, San Francisco 1996
School of Graduate Studies Chair, Biomedical Informatics Seminars, the University
of California, San Francisco
- External Faculty Review, Department of Industrial Engineering, Da-Yeh University,
Taiwan, ROC 1996
- External Faculty Review, Department of Mathematics, the University of Hong Kong,
1996

Hong Kong.

Chair, Biomedical Informatics Seminar Series and Symposium, University of California, San Francisco, Program Committee and Faculty Mentor, Undergraduate Summer Research Experience Program, University of California San Francisco, School of Graduate Studies Technical Chair, Network Infrastructure Committee, UCSF-Stanford Health Services	1997
Program Committee, PhD Qualifier Committee, University of California, San Francisco Biomedical Informatics Graduate Program	1997
Chair, Biomedical Informatics Seminar Series, USCF External Faculty Reviewer, Department of Computer Sciences, Columbia University	1998-99
Member, Outcomes research committee, UCSF School of Medicine Chair, Biomedical Informatics Seminar Series, USCF	2000-02
Member, PhD Qualifier Committee, UCSF Biomedical Informatics Graduate Program	2000-02
Faculty Representative in Bioinformatics and Information Technology to Provost and Executive Vice Chancellor, UCSF, SF, CA	2001-02
Member, Molecular and Functional Imaging Center Planning Committee, Department of Radiology, UCSF School of Medicine	2002-03
Member, Research Computing and Information Infrastructure Committee, UCSF Office of Research	2002-03
Member, Academic Computing Committee, UCSF Office of Academic Affairs	2002-03
Member, Clinical Information Infrastructure Technical Committee, UCSF Medical Center	2002-03
Member, Panel of the Future Committee, UCSF Chancellor Office	2002-03
<u>USFC/UC Berkley</u>	
Faculty Member, UCSF/UC Berkeley Bioengineering Graduate Program	1994-2002
Member, Bioengineering Program Admission Committee, UCSF/UC Berkeley	1995
Member, PhD Qualifier Committee, UCSF/UC Berkeley Bioengineering Graduate Program	1995-2002
<u>Harvard Medical School</u>	
Member, Faculty Advisory Committee, Computational Biology Initiatives, Harvard Medical School.	2002-2007
Director, HCNR Center of Bioinformatics, Harvard Medical School	2002-2007
Member, Structural Biology Grid Computing Advisory Committee, Harvard	2004-2005

Medical School.

Member, Cellular and Molecular Imaging Technical Committee, Harvard University 2004-2007

Brigham and Women's Hospital, Harvard Medical School 2003-2007

Executive Committee, Functional and Molecular Imaging Center and Biomedical Imaging Core Resources (FMIC-BICOR) Department of Radiology, Brigham and Women's Hospital

Member, Research Web Portal Committee, Brigham and Women's Hospital

Chair, Bioinformatics Task Force Committee, Department of Radiology, Brigham and Women's Hospital, Harvard Medical School.

Member, Vivarium Planning subcommittee, Brigham Research Institute, BWH

Member, Information Systems (IS) Planning Subcommittees, Brigham Research Institute, BWH

Member, Animal Models Working Group, Brigham Research Institute, BWH

Member, Bioinformatics Working Group, Brigham Research Institute, BWH

Member, Imaging Working Group, Brigham Research Institute, BWH

Member, Stems Cell, Regeneration and Repair Working Group, Brigham Research Institute, BWH

Member, Brigham Research Institute Planning Committee, BWH

Executive Director, Functional and Molecular Imaging Center, Department of Radiology, BWH 2005-2007

Houston Methodist Hospital

Vice Chairman, Department of Radiology 2007-18
Director, Bioinformatics and Biomedical Engineering Program

Chief of Medical Physics 2007-date

Member, Search Committee, Diabetes Program Head 2007-09
Vice Chair, Cyclotron Planning and Imaging Center Committee

Member, Recruitment Committees, Molecular Imaging Program Faculty 2007-10

Member, Search Committee, Alzheimer's Disease Center Director, 2008-10
Member, Advisory Committee, Intellectual Properties and Patent Disclosure

Member, Steering Committee, Research IT and Data Repository 2008-11

Steering Committee, Center for Excellence in Diabetes, Obesity and Lipids 2009-11
Chair, Neuroimaging Research Group, The Methodist Hospital

Member, Search Committee, Neuroscience Program Head, Houston Methodist Research 2009-12
Institute and MITIE Advisory Committee, Department of Surgery

Member, Recruitment Committee, Center for Immunology and Epigenetics	2010-11
Member, Steering Committee, Methodist Cancer Center Council	2011-date
Member, Faculty Appointment and Promotion Committee	2012-2014
Member, Joint Council of Chairs, The Institute of Academic Medical Sciences (IAMS)	2012-2018
Member, Research Committee, HMRI	2012-date
Member, Endowed Positions & Awards Committee (EPAC)	2012-date
Member, fMRI Task Force on Brain Screening	2013-2014
Member, Precision Medicine Strategy Committee	2014-2017
Member, Outcomes Research Strategy Committee	2014-2017
Member, Education and Outreach Committee	
Member, Houston Methodist Center for Performing Arts in Medicine Council	2014-date
Member, IRB Committee	2016-2020
Member, The Society for Leading Medicine Community Advisory Committee	2017-date
Member, Houston Methodist Cancer Center Executive Committee	2018-date
Chair, Houston Methodist Cancer Center Shared Resources Leadership Committee	
Member, Diversity, Equity and Inclusion (DEI) Leadership Council	2019-date
Executive Sponsor, Asian Heritage Employee Resource Group (ERG)	

External Graduate Thesis & Dissertation Committees (Non-UCSF/non-Harvard/non-Cornell) *Dates*

Bioengineering Graduate Program, UC Berkeley/UCSF, CA	1994-2002
Department of Neurology and Neurosciences, UCSF, CA	1994-2002
Department of Electrical Engineering & Computer Science, UC Berkeley, CA	1994-1997
Department of Computer Sciences, San Francisco State University, CA	1995-1997
Department of Computer Sciences, Stanford University, CA	1995-1999
Medical Informatics Graduate Program, Stanford University School of Medicine, CA	1995-1999
Department of Industrial Engineering, Da-Yeh University, Taiwan, R.O.C.	2002-2003
Department of Computing, Imperial College, University of London, U.K.	2004-2006

Department of Mathematics, The University of Hong Kong, Hong Kong SAR, China.	2004-2006
Department of Cellular and Molecular Biology, Harvard University, Boston, MA	2005-2009
Department of Electrical and Computer Engineering, Northeastern University, Boston, MA	2005-2009
Department of Mathematics, Hong Kong Baptist University, Hong Kong SAR, China.	2006-2007
Department of Electrical Engineering, Columbia University, New York, NY	2006-2009
Department of Electrical and Electronics Engineering, The University of Hong Kong, Hong Kong SAR, China.	2006-2009
Department of Computer Science, Tampere Institute of Technology, Finland	2007-2009
Department of Bioengineering, Rice University, Houston, TX	2009-2015
Department of Electrical and Computer Engineering, Rice University, Houston, TX	2010-2016
Department of Mechanical Engineering, University of Houston, Houston, TX	2013-2016
Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX	2013-date

External Faculty Promotion Review Committees (Selected samples)

Dates

Department of Computer & Information Sciences, Oakland University, Rochester, MI	1998
Department of Electrical Engineering, Columbia University, New York, NY	1998
Department of Industrial Engineering, Da-Yeh University, Taiwan, R.O.C.	1998
Department of Computer Sciences, University of Southern California, Los Angeles, CA	2000
Department of Computer Sciences, Stanford University, Stanford, CA	2000-01
Department of Computing, Imperial College, University of London, U.K.	2002
Department of Biomedical Engineering, Los Angeles, UCLA	2004
Department of Mathematics, the University of Hong Kong, Hong Kong SAR, China	2004
Department of Mathematics, Fudan University, Shanghai, P.R. China	2004
Department of Neurobiology, Fudan University, Shanghai, P.R. China	2005
Department of Radiology, Washington University, St Louis, MO	2005
School of Information Technology, James Cook University, Queensland, Australia	2006
School of Life Sciences, Shanghai University, Shanghai, PROC	2006
Nanyang Technological University, Singapore	2007

College of Electrical Engineering, Nanyang Technological University, Singapore	2007-2008
Electrical Sciences and Computer Engineering Group, Brown University	2007-2008
Department of Molecular and Cell Biology, Harvard University	2007-2008
Department of Radiology, MGH, Harvard Medical School	2008
Department of Cell Biology, Brown University	2008
Electrical Sciences and Computer Engineering Group, Brown University, RI	2008-2009
Department of Pathology, Ohio State University, OH	2008-2009
Department of Medical Informatics, Columbia University, NY	2008-2009
Department of Bioengineering, Rice University, TX	2008-2009
Department of Radiology, University of Rochester, NY	2008-2009
Department of Radiology, UT MD Anderson Cancer Center, TX	2009
School of Information Technology, Penn State University, PA	2009-2010
Department of Nanomedicine and Bioengineering, UT Health Science Center at Houston, TX	2010-2014
Department of Radiology, Brigham and Women's Hospital, Harvard Medical School, MA	2011-2012
Department of Bioengineering, Carnegie Mellon University, PA	2011-2012
Department of Electrical Engineering, University of Southern California, CA	2011-2012
Department of Medical Informatics, Ohio State University, OH	2012-2014
School of Life Sciences, Shanghai Jiaotong University, P. R. China	2012

2013

Chinese Academy of Sciences, Hefei, P. R. China
 Department of Radiology, Washington University at St Louis, MO
 Department of Bioengineering, University of Houston, TX

2014

School of Electrical and Computer Engineering, Georgia Institute of Technology, GA
 Department of Systems Biology, University of Texas MD Anderson Cancer Center, TX

2015

Departments of Molecular and Cellular Biology and Biochemistry, Baylor College of Medicine, Houston, TX
 Department of Bioengineering, Carnegie Mellon University, Pittsburg, PA

Department of Pharmacology and Experimental Therapeutics, Boston University School of Medicine, Boston, MA
Department of Gynecologic Oncology, U Texas MD Anderson Cancer Center, TX
School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore

2016

Department of Cancer Systems Imaging. UT MD Anderson Cancer Center, TX
Department of Bioengineering, School of Medicine, Tsinghua University, P. R. China
Department of Biomedical Engineering, University of Virginia, Charlottesville, VA
Department of Physiology & Biophysics, University of Southern California, LA, CA
School of Electrical, Computer and Energy Engineering, Arizona State University, AZ

2017

Department of Surgery, Baylor College of Medicine, Houston, TX
Department of Computer Science, College of Sciences, The University of Texas at San Antonio, TX
Michael E. DeBakey Department of Surgery, Baylor College of Medicine, TX
School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore

2018

Department of Radiology, Stanford University, CA
School of Biomedical Engineering, Faculty of Engineering and Information, University of Technology Sydney,
NSW, Australia

2019

Department of Leukemia, University of Texas MD Anderson Cancer Center, Houston, TX
Department of Veterinary Physiology and Pharmacology, Texas Veterinary Medical Center, TAMU, TX
Department of Psychiatry, Boston University, MA
Department of Neurology, Massachusetts General Hospital, Harvard Medical School, MA
School of Dentistry, UCLA, Los Angeles, CA
School of Biomedical Informatics, University of Texas, TX

2020

Department of Molecular Medicine, University of Texas, San Antonio TX
Department of Biomedical Engineering, University of Houston, Houston, TX
Electrical and Computer Engineering Department at Texas A&M University, TX
Electrical and Computer Engineering Department, Texas A&M University, TX
Department of Radiology, Southeast University Medical School, Nanjing, P. R. China

2021

Electrical and Computer Engineering Department, Texas A&M University, TX

Department of Translational Medical Sciences, Texas A&M University, TX

Electrical Engineering Department, City University of Hong Kong, SAR, China

Biomedical Engineering Department, Oregon Science and Health University, Portland, OR

Department of Radiology, MD Anderson Cancer Center, Houston, TX

Department of Medicine, Mayo Clinics, Rochester, NY

2022

Faculty of Medicine, University of Pittsburgh School of Medicine

Research

Dates

See Section J for current and past research project information

<u>Current percent effort</u>	<u>%</u>	<i>Check if activity involves WMC</i>	
		<i>Students</i>	<i>researchers</i>
Teaching	10		X
Clinical Care	0		
Administration	15		
Research	75		
Total:	100%		

J. RESEARCH SUPPORT (past and present)

Dates

Past and Current Academic Research Grants Support (Listed PI or Co-PI grants only)

PAST (USD \$)

National Science Foundation, NSF-Japan Program, Principal Investigator "Distributed and Collaborative Software Agent Systems"	1992-1994 \$170K
Science and Technology Agency, Japan, Principal Investigator "Massive Parallel Inference Computing and Applications"	1992 \$200K
ICOT, The Fifth Generation Computer Systems Project, MITI, Japan, Principal Investigator "Parallel Knowledge Processing Systems for 3D Protein Structure Prediction"	1993 \$250K
IBM Research Foundation, Principal Investigator "Massive Medical Optical Storage for Image Management and Distribution"	1994-95 \$350K
Philips Medical Systems, Co-PI "Multimedia Medical Conferencing for Cardiology"	1995-96 \$400K
National Science Foundation, CISE Directorate, Principal Investigator "Content-based Retrieval of Multimodal Medical Images"	1995-97 \$100K
NIH/NLM N01-LM 6-3547, Co-PI	1996-1999

"High Performance Tele-Imaging Infrastructure for Collaborative Health Care"	\$2.6M
Whitaker Foundation, Principal Investigator "Fusion of Multimodal Brain Images for Non-Invasive Evaluation of Candidates for Epilepsy Surgery"	1996-1999 \$350K
Hewlett Packard Foundation, Principal Investigator "HP Instructional Equipment Grant for Medical Imaging Education"	1997-1998 \$500K
NIH/NINDS R01-NS 36007, Principal Investigator "An Electronic Data Warehouse for Epilepsy Research"	1998-2003 \$2M
NIH/NLM R29-LM 06300, Principal Investigator "A Multimodality Neuroimaging Database System"	1998-2006 \$450K
National Science Council (Taiwan), NSC 89-2212-E-212-013, Co-PI "Integrated Computer Aided Model for Left Ventricular Border Detection in Magnetic Resonance Imaging. Integrated Computer Aided Model for Left Ventricular Border Detection in Magnetic Resonance Imaging."	1999-2001
National Science Council (Taiwan), NSC90-2212-E-212-027, Co-PI "A Computer Aided Diagnostic System for Portal Vein Flow Pattern Analysis in Fast Phase-Contrast Magnetic Resonance Imaging"	2000-2002
U.S. Army DAMD, Co-PI "Reliability, Security, and Authenticity of Meta Medical Image Archive for the Integrated Healthcare Enterprise"	2000-2003 \$400K
California Public Health Foundation (CPHF), Principal Investigator "Design and evaluation of Public Health Electronic Medical Record System"	2001-2002 \$80K
California Breast Cancer Research Program, Co-PI "BCT.org: Feasibility of a Clinical Trial Matching Tool"	2003-2004 \$250K
MDA Foundation, Co-PI "An Internet-based Integrated MDA/ALS Database System"	2003-2005 \$500K
Harvard Center for Neurodegeneration and Repair, PI "Bioinformatics Research Center for Neurodegeneration and Repair"	2003-2009 \$4.5M
NIH-NIBIB 1U54EB005149-01, Co-PI and Core PI "A National Center for Medical Imaging Computing"	2004-2009 \$2.4M
GE Healthcare Instrumentation Grant, Principal Investigator "High Content Screening for Neurodegeneration Drug Development"	2005-2007 \$450K
NIH-NLM, R01 LM08696, Principal Investigator "Cell Tracking and Analysis in Time-Lapse Microscopy"	2005-2008 \$1.6M
NIH-NIBIB U24RR021992 (Potkin), Site Co-PI and IT Workgroup Co-Chair "Functional Biomedical Informatics Research Network (fBIRN)"	2005-2009 \$2.0M
Ellison Medical Foundation, Principal Investigator "Multimodality Molecular Imaging Methods to Investigate Brain Tumor and Alzheimer's Disease"	2006-2007 \$220K

Novartis Biomarker Development Division Grant, Principal Investigator "Image-based Clinical Trials System Development"	2007-2009 \$250K
GE Healthcare Instrumentation Grant, Principal Investigator Cyclotron and Hot Labs for the Functionan and Molecular Imaging Center	2007 \$6.6M
NIH-NLM, G08 LM008937-01A, Principal Investigator "Assisted Follow-up in NeuroImaging of Therapeutic Intervention"	2007-2011 \$450K
NIH-NLM, R13LM009571, Principal Investigator (5%) "Life Science Systems and Applications Conference"	2007-2013 \$175K
NIH-NIA, R01 AG028928, PI (10%) "High-content Image Analysis and Modeling for Neuron Assay Based Screening"	2007-2013 \$1.8M
NIH-NLM, R01 LM09161, Principal Investigator "Neuronal Spines Tracking and Analysis for Time-Lapse, 3D Optical Microscopy"	2008-2012 \$2M
NIH-NLM, R01 LM09161, Principal Investigator Supplement "Neuronal Spines Tracking and Analysis for Time-Lapse, 3D Optical Microscopy"	2009-2010 \$150K
NIH-NLM, G08 LM008937-01A, Principal Investigator Supplement "Assisted Follow-up in NeuroImaging of Therapeutic Intervention"	2010-2011 \$130K
NIH-NCI, U54 CA149196-01 Supplement "Center for Systematic Modeling of Cancer Development"	2010-2011 \$120K
Texas CPRIT Individual Award RP110428, PI "Image Guided Therapy for Peripheral Lung Cancer"	2010-13 \$1.2M
Virginia and L.E. Simmons Foundation Collaborative Research Award PI (Wong, Ming) "Integrated genomic analysis and validation of molecular classification and targeted therapeutics to improve the outcome of patients with medullablastoma"	2011-12 \$200K
Cornell-Methodist inter-campus grant PI (Wong, Mittal) "To evaluate metastatic potential of "cancer stem cells" in breast cancer by live animal in <i>in vivo</i> imaging"	2011-12 \$175K
Virginia and L.E. Simmons Family Foundation Arenkiel, Wong, Deneen (PI) "Uncovering Roles for Astrocytes at Central Nervous System Synapses"	2013-14 \$150K
Dottie and Jimmy C. Adair Myelodysplastic Syndrome Treatment and Research Fund, PI "Fast Track Drug Repositioning for Myelodysplastic Syndromes Biomarkers"	2014 \$60K
NIH-NCI, U54 CA149196, Supplement PI "Center for Systematic Modeling of Cancer Development"	2013-14 \$175K
NIH-NCI R01 CA121225, PI (10%) "High-content image analysis and modeling for RNAi genome-wide screening"	2008-2015 \$1.8M
DOD PC11860 Prostate Cancer Research Program IDEA, PI U.S. Army Medical Research and Materiel Command "A label-free and chemical-selective microendoscope to enhance prostate cancer surgical outcomes"	2013-16 \$560K

NIH-NCI, U54 CA149196, Supplement PI "Center for Systematic Modeling of Cancer Development"	2015-16 \$175K
Dottie and Jimmy C. Adair Myelodysplastic Syndrome Treatment and Research Fund "Fast Track Drug Repositioning for Myelodysplastic Syndromes Biomarkers"	2015-16 \$120K
NIH-NCI, U54 CA149196, PI "Center for Systematic Modeling of Cancer Development"	2010-16 \$12M
CPRIT RP101334 Multi-PI Research Award, PI (Bioinformatics Core) "CPRIT High Throughput Drug Screening"	2011-17 \$2.0M
Texas Advanced Computing Center, the University of Texas at Austin, PI "Computational chemistry and systems biology for drug repositioning" and "3D mathematical modeling of tumor-stroma interactions"	2013-17 1M CPU hrs
Gregory and Libby Nelson Fund, PI "Cell-cell interactions and modeling in metastatic cancer"	2013-2019 \$250K
DOD MR130311 Vision Research Program IDEA, PI U.S. Army Medical Research and Materiel Command "Mobile multi-modal label-free imaging probe analysis of choroidal oximetry and retinal hypoxia"	2014-17 \$250K
Cancer Fighters of Houston, PI "Drug repositioning for medulloblastoma"	2016-18 \$25K
NIH U01 CA188388, PI "Modeling tumor-stroma crosstalk in lung cancer to identify targets for therapy"	2015-20 \$3.1M
3R01CA238727-01A1S1, Wong (Contact PI), Hong (MPI) Supplement of NCI R01CA238727-01A1	2020–2021 \$404K
NIH R01ES024165-04S1 Weisskopf (PI) Wong (Site-I) "Early and Late-life Metal Exposures and Alzheimer's Disease"	2018-2021 \$300K
Tina's Wish Foundation, Mok (PI), Wong (site-PI) "Identification of biomarkers for early cancer detection in women at high-risk of developing ovarian cancer"	2018 – 2021 \$120K
DOD Ovarian Cancer Investigator-Initiated Research Award (PI:Mok) Wong Co-I "Immune Checkpoint Regulator in Ovarian Cancer Progression"	2017-21 \$210K
<u>ACTIVE (USD \$)</u>	
John S Dunn Foundation Presidential Distinguished Chair Endowment, PI "Bioengineering Program at Houston Methodist Hospital"	2010-date \$4.5M
TT and WF Chao Center for Bioinformatics Research and Neuroscience Imaging (BRAIN), PI "Mechanism and Drug Discovery in Alzheimer's disease and related disorders"	2010-date \$7.0M
Johnsson Estate, PI "Mechanism and Drug Discovery in Alzheimer's disease"	2014-date \$2.0M

Cures for Alzheimer's Fund, Gillson Longenbaugh Foundation, and Anderson Foundation, PI "High content screening and analysis for drug repositioning using Alzheimer's 3D cell assay"	2016-24 \$1.8M
Huffington Foundation, Wong, Lai (PIs) "Systematic Drug Repositioning for Parkinson Disease with Artificial Intelligence and High Content Screening"	2017-23 \$500K
NIH R01CA177909 Afshar-Kharghan, Sood (PIs) Wong (Co-I) "Platelets promote growth of ovarian cancer"	9/1/2018 – 8/31/2023 \$400K
NIH R01 AG057635-01A1, PI "Systematic Alzheimer's disease drug repositioning (SMART) based on bioinformatics-guided phenotype screening and image-omics"	9/15/2018 – 5/31/2023 \$3.4M
TT & WF Chao Fund, PI "Preclinical studies for drug repositioning in Alzheimer's disease and new humanoid antibody for ovarian and pancreatic cancer"	2019-date \$500K
Carole Walter Looke Fund, PI "Matching for the development of new humanoid antibody for ovarian and pancreatic cancer"	2019-date \$200K
Margolis Family Fund, PI "Drug repositioning in Alzheimer's disease"	2019-date \$50K
Steve & Allyson Cook Family Fund, PI "Drug repositioning in Alzheimer's disease"	2019-date \$50K
NCI R01CA238727-01A1, Wong (Contact PI), Hong (MPI) "Systematic identification of astrocyte-tumor crosstalk regulating brain metastatic tumors"	2/15/2020–1/31/2025 \$2.1M
NCI R01CA251710, PI "Convergent AI for Precise Breast Cancer Risk Assessment"	6/1/2020–5/31/2025 \$3M
Houston Methodist-Siemens Healthineers Research Collaboration Fund MPI (Gupta, Chang, Wong) "Evaluating cardiovascular risk attributable to chemoradiation therapy in breast cancer patients using artificial intelligence-based assessment of coronary calcium burden from routine non-EKG gated chest CT scans"	7/1/2020–6/30/2022 \$50K
NIH R01CA244413, Gao (PI) Wong (Co-I) "To study the EMT contributions in tumor metastasis and chemoresistance by using linear tracing model"	7/1/2020-6/30/2025 \$450K
NIH U01CA253553, Wong (Contact PI), Zhang (MPI) "Spatiotemporal modeling of cancer-niche interactions in breast cancer bone metastasis"	9/15/2020–8/31/2025 \$2.7M
Scurlock Foundation Research Fund MPI (Wong, Volpi) "Deep learning app enabling 3D facial recognition for stroke detection"	3/31/2021-2/28/2023 \$240K
NIH R01AG071496, Wong (Contact PI), Doo (MPI) "Systematic modeling and prediction of cell-type-specific and spatiotemporal crosstalk pathways in Alzheimer's Disease"	5/15/2021-4/30/2026 \$4M
NIH U01CA268813-01, (Chang, Wong, Meric-Bernstam, Lipkowitz, MPI)	4/1/2022-2/30/2026

Phase II Trial of apelisib with iNOS inhibitor and nab-paclitaxel in patients with HER2 negative metastatic or locally advanced metaplastic breast cancer (MpBC) (funding waiting for the IRB approval) \$4.1M

K. EXTRAMURAL PROFESSIONAL RESPONSIBILITIES

Member, Semiconductor Equipment and Materials International (SEMI) Factory Automation Task Force Committee, SEMI (non-profit)	1986-87
Program Committee, 1992 International Conference on Fifth Generation Computer Systems (FGCS), Tokyo, Japan.	1992
Member, Scientific Review Panel, NSF Engineering Research Centers in Multimedia, Virtual Reality, and Machine Intelligence, National Science Foundation	1994
Member, Scientific Review Panel, NSF Engineering Research Centers in Multimedia, Virtual Reality, and Machine Intelligence, National Science Foundation	1995
HP Sponsored Technical Advisor in Life Sciences, Technical Museum of Innovation, San Jose, CA	1995
Program Committee, International Conference of Computer Assisted Radiology and Surgery, (CARS 96); Berlin, Germany, June 1996	1996
Program Committee, Institute of Electrical and Electronics Engineers/ACM Digital Libraries.	1996
Program Committee, Forum on Advances in Digital Libraries (ADL 96), Washington, D.C May 1996	1996
Deputy Editor-in-Chief, International Journal of Computerized Medical Imaging And Graphics, Elsevier	1996
Editor, J. Computerized Medical Imaging & Graphics, Special Issues: Medical image databases	1996
Section Member, Scientific Review Panel, NSF Digital Library Initiatives, CISE, National Science Foundation	1996-99
Section Member, Scientific Review Panel, NIH Center of Scientific Reviews: SBIR Radiology, Surgery, and Bioengineering Section	1997-99
Program Committee, SPIE Conference on Medical Imaging: Function and Physiology of Medical Images Conference, Newport Beach, CA, Feb 1998.	1998
Program Committee, Institute of Electrical and Electronics Engineers Conference on Computer Vision and Pattern Recognition, CVPR 98, Santa Barbara, CA June 1998	1998
Editor, International Journal of Digital Libraries, Special Issues: DL in Biomedicine	1998
Book Editor, Medical Image Databases, Kluwer Academic Press	1999

Member, CorbaMed Interest Group Committee, Object Management Group (OMG), non-profit.	1999
Board Member, LOMA (Life Offices Management Association) Examination Board, non-profit.	2000
Technical Board Member, Lewiz Communications, Inc., San Jose, CA Editor, J American Medical Informatics Association (JAMIA), Special Issues on Human Brain Program Research Progress in Bioinformatics/Neuroscience.	2000
Program Committee, Internet Multimedia Management Systems Conference, SPIE International Symposium on Voice, Video, and Data Communications, Boston, MA, November 2000	2000
Section Member, Scientific Review Panel, NIH Center of Scientific Reviews: Neuroinformatics	2000
Program Committee, Institute of Electrical and Electronics Engineers Engineering Management Society. Portland	2001
International Conference on the Management of Engineering and Technology, July, Portland, Oregon, 2001	2001
Editor, J. American Medical Informatics Association, Special Issues: Human Brain Program Research Progress in Neuroimaging/Neuroscience	2001
Technology Advisor, California Healthcare Foundation, Oakland, CA	2001
Program Committee, SPIE Photonics West 2002 Conference on Electronic Imaging, San Jose, CA, Jan 2002	2002
Section Member, Biomedical Library and Informatics Review Committee (BLIRC), National Library of Medicine, NIH (4 years term)	2002
Member, National Science Foundation's Digital Imagery for Asian Art and Cultural Heritages Project	2002
Program Committee, Electronic Imaging and Multimedia Technology Conference of SPIE Photonics Asia 2002, Shanghai, China Oct. 14-18 2002.	2002
Member, Scientific Review Panel, Special Emphasis on Parkinson Diseases, National Institutes of Environmental Health Sciences (NIEHS), NIH, Research Triangle Park, NC	2002

2003

Program and Technical Committees

- W3C Conference in Multimedia, International World Wide Web 2003 (WWW2003), May 2003
Budapest, Hungary
- Internet Multimedia Management Systems IV Conference, SPIE Symposium on ITCOM 2003,
Orlando Florida, Sept 2003

Member, National Library of Medicine (NLM) Biomedical Imaging and Bioengineering Working Group (BIBWG), NIH (2 years term)

2004

Program and Technical Committees

Storage and Retrieval Methods and Applications for Multimedia 2004, SPIE/IS&T Electronic Imaging Conf, San Jose, CA Jan 2004
Electronic Imaging and Multimedia Technology IV Conf at SPIE Photonics Asia 2004, Beijing, China, Nov 2004
IEEE CAS Society VLSI Technical Committee, 2004-2005
IEEE Computer Science Society Bioinformatics Conference, Palo Alto, Aug 2004
Knowledge Management Program, Alzheimer Research Forum, MA. 2004
Chair, Life Science Systems and Applications Technical Committee, IEEE Circuits and Systems (CAS) Society, 2004-2005

Conference/Workshop Chairs

Chair, NIH/NSF/IEEE Multimodal Biomedical Systems Workshop, Bethesda, Oct. 2004
Co-Chair, IEEE International Workshop on Life Science Data Mining, Brighton, England, Nov., 2004

2005

Program and Technical Committees

Storage and Retrieval Methods and Applications for Multimedia 2005, IST/SPIE International Symposium on Electronic Imaging 2005, San Jose, CA Jan 2005
IEEE International Symposium on Circuits & Systems (ISCAS) 2005, Kobe, Japan, May 2005
18th IEEE Symposium on Computer-Based Medical Systems, Dublin, Ireland, June 2005
IEEE Computer Science Society Computational Systems Bioinformatics Conference, Stanford, Aug 2005
IEEE International Workshop on BioImage Data Mining and Informatics, Stanford, August 2005
Ad Hoc Committee, IEEE TAB Systems-wide Life Sciences Society Proposal Evaluation

Conference Chair, 2nd IEEE/NLM International Workshop of Life Science Systems and Applications, NIH, Bethesda, MD, July 2005

Member, NLM Long Range Planning Panel in Support for Genomics Sciences, 2005-2006

Editorial Boards

IEEE Circuit and Systems Society Magazine, 2005-2011
Guest Editor, IEEE Transactions on Circuits and Systems I

2006

Program and Technical Committees

Multimedia Content Analysis, Management, and Retrieval 2006, IST/SPIE International Symposium on Electronic Imaging 2006, San Jose, California,
Int. Conf on Pervasive Healthcare, Salzburg, March 22-24, 2006 Austria
Body Sensor Networks (BSN) Workshop, MIT, Cambridge, April 3-5, 2006
19th IEEE Symposium on Computer-Based Medical Systems, Salt Lake City, Utah, June 2006
IJCNN World Congress on Computational Intelligence (WCCI 2006), Vancouver, Canada, July 16-21, 2006
Int Workshop on Medical Imaging and Augmented Reality (MIAR 2006), Shanghai, China, Aug 17-18, 2006
IEEE Int Workshop on Bioimage Informatics, Stanford, August 2006
4th Int Conf on Information and Communication Technology (ICICT), Cairo, Egypt, Dec 10-12, 2006
IEEE Int Conf on Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP-2006), Pasadena, CA, Dec 18-20, 2006

International Advisory Board (IAB), Int Conf Biomedical & Pharmaceutical Engineering, Singapore, Dec 2006

Editorial Boards

IEEE Signal Processing Society Magazine, 2006-2013
Journal of Mathematical Modeling and Applied Computing, 2006-2012
Journal of Neurodegeneration and Regeneration, 2006-date
Far Eastern Journal of Mathematics, 2006-date

2007

Program and Technical Committees

20th IEEE Symposium on Computer-Based Medical Systems, Maribor, Slovenia, June 20-22, 2007
Int Symposium on Optimization and Systems Biology (OSB2007), Beijing, China, Aug 7-9, 2007
3rd IEEE/NLM Int. Workshop of Life Science Systems & Applications (LISSA) 2007, NIH, Bethesda, MD, Nov 8-9, 2007

International Advisory Board, Life System Modeling and Simulation (LSMS 2007), Shanghai, China.

Editorial Board

Associate Editor, European Journal of Radiology, 2007-now

2008

Board of Governors, IEEE Circuits and Systems Society (2 years term)

Officer, America College of Medical Physicists (ACMP)

Program and Technical Committees

3rd IEEE/NLM International Workshop of Life Science Systems and Applications (LISSA)
21st IEEE Symposium on Computer-Based Medical Systems (CBMS)
18th Annual Int. Conf on Intelligent Systems for Molecular Biology (ISMB)

2009

Advisory Board in Image Informatics, American Medical Informatics Association, 2009-2012

Program and Technical Committees

4th IEEE-NIH International Workshop of Life Science Systems and Applications (LISSA 2009)
22nd IEEE Symposium on Computer-Based Medical Systems (CBMS), Albuquerque, NM, USA

2010

Program and Technical Committees

Bioimaging, Annual Int. Conf on Intelligent Systems for Molecular Biology (ISMB), Boston
Genome Informatics Workshop (GIW) 2010
Int. Workshop on Bioimage Informatics, Howard Hughes Research Institute (HHMI)
Int. Workshop on Medical Imaging and Augmented Reality (MIAR 2010), Beijing, China
Knowledge Discovery and Decision Systems in Biomedicine (KDDSB10) Track, IEEE Int Symposium on Computer-based Medical Systems (CBMS 2010), Perth, Australia

Editorial Board, 2010-date

Editor-in-Chief, Computerized Medical Imaging and Graphics (CMIG), Elsevier Publisher

2011

Conference co-Chair

IEEE Int. Conference of Bioinformatics and Biomedicine (BIBM), Atlanta, GA 12-15 Nov 2011.

Program and Technical Committees

5th IEEE-NIH Int. Workshop of Life Science Systems and Applications (LISSA 2011), Bethesda, MD
9th Int. Bioinformatics Workshop 2001 (IBW 2011), Xian, China
IEEE Int. Conference on Systems Biology (ISB 2011), Zhuhai, China
24th International Symposium on Computer-Based Medical Systems (CMBS) 2010, Bristol, U.K.
Co-Chair, IEEE EMBS Healthcare in IT Technical Committee

Steering Committee, 2011-12

IEEE Trans CBB

Editorial Boards, 2011-date

Associate Editor, Theranostics
Associate Editor, American Journal of Cancer Research
Section Editor, Archives of Pathology

2012

International Advisory Board

11th International Conference on Bioinformatics (InCoB2012), Oct 3-5, 2012
3rd International Conference on Computational Systems-Biology and Bioinformatics (CSBIO), Oct. 2012

Program and Technical Committees

Track Chair, 28th Southern Biomedical Engineering Conference, May 5-7, Houston, TX
25th IEEE International Symposium on Computer-Based Medical Systems, June 20-22 2012, the University Campus Bio-Medico of Rome, Italy.
34th Annual Int. Conf. of the IEEE EMBS (EMBC 2012), Aug 28-Sept 1, San Diego, CA
2012 ACM Conference on Bioinformatics, Computational Biology and Biomedicine (ACM-BCB'12), Oct 7-10, Orlando, FL.

2013

International Advisory Board

11th International Conference on Bioinformatics (InCoB2012), Oct 3-5, 2012
3rd International Conference on Computational Systems-Biology and Bioinformatics (CSBIO), Oct. 2012

Program and Technical Committees

Co-Chair, 2013 IEEE International Workshop on Genomic Signal Processing and Statistics (GENSIPS 2013)
26th IEEE International Symposium on Computer-Based Medical Systems.
2013 6th International Workshop on Medical Imaging and Augmented Reality, (MIAR/AE-CAI), Sept 21-22, Nagoya, 2013.

2014

Program and Technical Committees

4-th International Conference on Information Technologies in Biomedicine (ITiB 2014), Kamień Śląski, Poland, June 2 - 4, 2014

Editorial Boards

Journal of drug repurposing, rescue, and repositioning

Advisory Boards

1st International Workshop on Computer-Assisted and Robotic Endoscopy (CARE), Boston, MA Sept 14-18, 2014

2015

Program and Technical Committees

Chair, IEEE Biomedical and Health Informatics Conference, Las Vegas Feb 2016

Member, 2nd Workshop on Advances in software and hardware for big data to knowledge discovery, in conjunction with 2015 IEEE Conference on Big Data Conference, Santa Clara, CA, Oct 29-Nov1 2015

2016

Program and Technical Committees

Chair, IEEE Biomedical and Health Informatics Conference, Orlando Feb 2017

2017

Program and Technical Committees

Chair, IEEE Biomedical and Health Informatics Conference, Orlando Feb 2017

Editorial Boards

Journal of Cancers, MDPI Publisher

2018

Program and Technical Committees

IEEE Biomedical and Health Informatics Conference, Las Vegas, March 2018

IEEE Body Sensor Networks Conference, Las Vegas, March 2018

2019

Program and Technical Committees

IEEE Biomedical and Health Informatics Conference, Chicago, May 2019

IEEE Body Sensor Networks Conference, Chicago, May 2019

2021

Program and Technical Committees

IEEE Biomedical and Health Informatics Conference, Chicago, Sept 2021

IEEE Body Sensor Networks Conference, Chicago, Sept 2021

IEEE Health Summit 2021

10th International Workshop of Cancer Systems Biology, Jilin, Chungchun, China, 2021

Advisory Committee, Data augmentation, labeling, and imperfections (DALI) workshop, MICCAI, Strasbourg, Germany, Sept 27, 2021

Federal Scientific Review Panels and Committees

Review Member, NSF Engineering Research Centers, National Science Foundation Directorate of Engineering 1995-1996

Review Member, NSF Directorate for Biological Sciences 1996-1998

Review Member, NSF Digital Library Initiatives, NSF Directorate for Computer and Information Science and Engineering 1996-1999

Member, NIH Center of Scientific Reviews: SBIR (Small Business and Innovative Research) study section - Radiology, Surgery, and Bioengineering Section 1997-1999

Member, NIH Center of Scientific Reviews: Special Emphasis Panel in Neurological Diseases and Disorders. 2000-2001

Member, NIH Center of Scientific Reviews: Special Emphasis Panel in Neuroinformatics	2000-2001
Member, NINDS: Special Emphasis Panel in Functional Imaging	2001
Member, National Institute of Environmental Health Sciences (NIEHS): Special Emphasis Panel in Parkinson Diseases	2002
Member, Biomedical Library and Informatics Review Committee (BLIRC), National Library of Medicine, NIH	2002-2006
Member, NLM/NIBIB Biomedical Imaging and Bioengineering Working Group (BIBWG), NIH	2003-2004

2005-06

Study Section and Grant Panel:

NLM Long Range Planning Panel in Support for Genomics Sciences
 NIH NCBC (National Center for Biomedical Computing) Evaluation Committee
 NIBIB Ad-hoc Review Panel, Neuroimaging Informatics Tools and Databases Clearinghouse.
 NIH Center of Scientific Reviews: Special Emphasis Panel Imaging and Modeling

2007

Study Section and Grant Panel:

NSF Theoretical Foundations (TF) Cluster Review Panel-Bioinformatics

2008

Study Section and Grant Panel:

NIH Center of Scientific Reviews: Special Emphasis Panel Technology Development for Neural Circuits

2009-10

Study Sections and Grant Panels:

HHS CDC Centers of Excellence in Public Health Informatics (P01)
 NIH Ad hoc review panel on RC1 and RC2
 NIH Scientific Review Panel, Special Emphasis on Microscopy Imaging
 NIH BDMA Study Section (2009-14)
 NIH/CSR College of Reviewers (2009-14)

2011

Study Sections and Grant Panels:

NIH SBIR Topic 295 & 306 Review Meeting NIH ZCA1SRLB1C Study
 NIH Ad hoc review panel on Sudden Death in Epilepsy (SUDEP) Centers Without Walls Planning Grants, ZNS1 SRB-B (28)
 DOD CDMRP Breast Cancer Research Program TRN-CET
 ZRG1 BST-H (40) P41 Site Visit, Program Project: National Computational Resource Center Review
 NIH BDMA Study Sections (2009-13)

2012

Study Sections and Grant Panels:

DOD CDMRP Breast Cancer Collaborative Innovators
 NIH NSD-B Study Section: Neurosciences and Disorders B/Feb 23
 NIH ZCA1 SRLB-1 Study Section
 NIH ZRG1 IMST-L Study Section

NIH BDMA Study Section (Chair): Biodata Management and Analysis
NIH NIBIB Neuroimaging Informatics Tools and Resources Clearinghouse
NIH NST-2 June 25-26
NSF Science and Technology Center May 30-June 1

2013

Study Sections and Grant Panels:

DOD CDMRP prostate cancer research program
NIH BDMA Study Section (Chair): Biodata Management and Analysis
NIH ZCA1 RPRB-O (M1): NCI Exploratory/Developmental Research Grant
Brain Tumor Charity, U.K.
Wellcome Trust Innovative Engineering Panel, U.K. (Feb and July)

2014

Study Sections and Grant Panels:

NIH NCI P01 Study Section
MJ Murdock Charitable Trust

2015

Study Sections and Grant Panels:

AAAS Research Competitiveness Program-Connecticut Bioscience Innovation Fund
Cancer Plan, French National Alliance for Life and Health Sciences (AVIESAN), the Institut National du Cancer (French National Cancer Institute) and INSERM, France
DOD CDMRP acute lung cancer research program
NIH NOIT Study Section: Neuroscience and Ophthalmic Imaging Technologies
PSL Research University Fund, France
Research Councils, U.K.

2016

Study Sections and Grant Panels:

DOD CDMRP prostate cancer research program
Innovation Centre of the Singapore-MIT Alliance for Research and Technology, Singapore Research Councils,
NIH NOIT Study Section: Neuroscience and Ophthalmic Imaging Technologies
NIH NCI ITCR Study Section: Informatics Technology for Cancer Research
NIH ETTN L54 Study Section: Emerging Technologies and Training Neurosciences
NIH EWOW Study Section: Epilepsy Center without Walls

2017

Study Sections and Grant Panels:

American Association for Cancer Research (AACR) Breast Cancer Research Grants Review
Canada Foundation of Innovation Multidisciplinary Assessment Committees (MAC) Grants Review Panel
NIH BCHI Study Section: Biomedical Computing and Health Informatics
NIH Study Section: ZCA1 SRB-2: Cancer Biomarker Discovery

2018

Study Sections and Grant Panels:

American Association for Cancer Research (AACR) Breast Cancer Research Grants
Canadian Society of Cancer Research Research Grants Review Panel
Cures Alzheimer's Fund Research Grants Review Panel
CureAccelerator Research Grant Panel Review Panel
DOD Prostate Cancer Research Program, R2RMIS Study Section
Ireland SFI Centres for Research Training Panel
Israel Science and Technology Ministry Research Grants Review Panel
NIH Alzheimer's disease AMP-AD Study Section
NIH Study Section SBIR Z10

NIH Study Section DP2 New Innovator awards
NIH Study Section U2C Precancer Atlas
Switzerland NSF Research Grants Review Panel

2019

Study Sections and Grant Panels:

American Association for Cancer Research (AACR) Breast Cancer Research Grants Review Panel
CST*R Pilot Grant Review, Texas A&M University
Cures Alzheimer's Fund Research Grants Review Panel
Florida Department of Health Biomedical Research Program
Innovation Centre of the Singapore-MIT Alliance for Research and Technology, Singapore
NF Research Initiative (NFRI), Boston Children's Hospital
NIH Study Section Z10 ZRG1 RPHB-Z B: Risk, Prevention and Health Behavior
NIH Study Section ZAG1 ZIJ-6 (O4): Drug Repositioning and Combination Therapy for Alzheimer's Disease
NIH Study Section ZCA1 SRB-2 (J1)P: Program Project 1
Science Foundation Ireland, Research Professorship Programme Progress Review

2020

Study Sections and Grant Panels:

American Association for Cancer Research (AACR) Breast Cancer Research Grants Review Panel
Canada Foundation of Innovation Multidisciplinary Assessment Committees (MAC) Grants Review Panel
Houston Methodist-Baylor College of Medicine Collaborative Pilot Grants in Alzheimer's Disease and Related Dementias
NIH Study Section ZAG1 ZIJ-6 (O3): Drug Repositioning and Combination Therapy for Alzheimer's Disease
NIH Study Section ZAG1 ZIJ-6 (O4): Drug Repositioning and Combination Therapy for Alzheimer's Disease
NIH Study Section ZRG1 ETTN-A (13): Small Business: Neuroscience Assay, Diagnostics and Animal Model Development, Feb, June, Nov, and Dec
NIH Study Section NIA-T R33 Grant Review
NIH Study Section ZRG1 GGG-K (91) S Research related to COVID-19
Pennsylvania Department of Health Formal Grants

2021

NIH Study Section ZEB1 OSR-E (M1): Chair, P41 NCBIB Review E-SEP, Feb 11-13
NIH Study Section ZAG1 ZIJ-6 (M3): Drug Repositioning and Combination Therapy for Alzheimer's Disease, Feb 18
Wellcome Trust/DBT India Alliance Fellowship, Feb 18
NIH Study Section ZRG1 ETTN-A (13): Small Business: Neuroscience Assay, Diagnostics and Animal Model Development, March 10-11
American Institute of Biological Sciences (AIBS) Population Health Grant Program, March 17
NIH Study Section ZCA1 PCRB-W (A1) L30, April 12
NIH Study Section ZAG1 ZIJ-6(O1) AD Drug Repositioning, June 17
NIH Study Section SBIR ZRG1 ETTA-A(13)B, June 28-29
AACR Outstanding Investigator Award for Breast Cancer Research, Aug 23
DOD CDMRP PCRP TS-1 prostate cancer peer-review panel, Sept 22
NIH Study Section ZAG1 ZIJ-6 (J2) AD Drug Repositioning, Oct 14-15

State and Regional Scientific Review Panels

Review Member, Hewlett Packard Foundation Philanthropy Grants	1996-98
Review Member, Life Sciences IT and BioStar Programs, U California Discovery Grants	2000-01
Review Member, California Public Health Foundation Grants	2000-01

Review Member, Florida Department of Health Biomedical Research Program Grants	2014-20
Review Member, Pennsylvania Department of Health Grants	2018-20

International Scientific Review Panels

Grant Reviewer, Taiwan National Science Council	2005-2007
Grant Reviewer, US-Israel Scientific Review Panel	2006-date
Grant Reviewer, Wellcome Trust, U.K.	
Grant Reviewer, A*Star, Singapore	
Grant Reviewer, Portuguese Science and Technology Foundation, Portugal	2007-2009
Grant Reviewer, Swiss NSF, Switzerland	2009-date
Grant Reviewer, Canadian Innovation Fund, Canada	2012-date
Grant Reviewer, Science Foundation Ireland	2019
Grant Reviewer, University of Bern, Germany	2021
Grant Reviewer, Wellcome Trust/DBT India Alliance	2021

Editorial Boards and Review Services:

Dates

Associate Editor, Journal of Computerized Medical Imaging and Graphics	1996-2009
Special Issues Editor, International J. Digital Libraries	1997-1998
Special Issues Editor, Journal of American Medical Informatics Associations (AMIA), Special Issues Editor	2002-2003
Guest Associate Editor, IEEE Transactions on Circuits and Systems I	2005-2006
Associate Editor, IEEE Circuits and Systems Society Magazine	2005-2011
Special Issues Editor, Neuroinformatics	2006-2007
Associate Editor, IEEE Signal Processing Society Magazine	2006-2011
Associate Editor, Journal of Neurodegeneration and Regeneration	2006-date
Associate Editor, European Journal of Radiology	2006-date
Editor-in-Chief, Computerized Medical Imaging and Graphics	2010-date
Associate Editor, American Journal of Cancer Research	2010-2015
Associate Editor, Theranostics	2010-2015
Section Editor, Archives in Pathology and Laboratory Medicine	2011-date
Associate Editor, IEEE Trans. Biomedical Engineering	2013-2017
Co Editor-in-Chief, Journal of Geometry, Imaging and Computing	2013-date
Associate Editor, IEEE Transactions on Circuits and Systems I	2014-2017

Associate Editor, Cancers 2018-date

Company and non-profits Advisory Boards:

Dates

Life Science Advisory Board, Hewlett Packard Foundation	1997-1998
Advisory Board, LeWiz Communications Inc., Sunnyvale, CA	1999-2002
Advisory Board, Smart Video Inc., NY, NY.	1999-2001
Advisory Board, SIA Ultrasounds Inc., Sunnyvale, CA	2002-2005
Advisory Board, Neuroscience Knowledge Management, Fidelity Foundation, Boston, MA	2003-2005
Advisory Board, Sirius Group, Singapore.	2004-2007
Advisory Board, Novartis Clinical Imaging, Novartis Pharmaceutical, Basel, Switzerland	2005-2006
Advisory Board, Medical Imaging Working Group, American Medical Informatics, Association, USA	2005-2007
Advisory Board, Institute for Systems Biology, Shanghai University, Shanghai, China	2005-2010
Advisory Board, Magnetic Medical Imaging, Philips Medical Systems, N.V.	2008-2010
Advisory Board, Healthcare Acquisition Corp, Los Angeles, CA	2009-2010
Advisory Board, Bioengineering Department, University of Houston, Houston, TX	2009-2016
Advisory Board, IEEE/ACM Transactions on Computational Biology and Bioinformatics	2010-2016
Advisory Board, Etho-Endicorn Surgery	2011-2012
Advisory Board, IEEE Journal of Biological and Health Informatics	2012-date
Advisory Board, The Center for Performance Arts in Medicine, Houston Methodist	2012-date
Advisory Council, School of Biomedical Informatics, University of Texas Health Sciences Center at Houston	2014-date
Advisory Board, Health2047 Inc., SF, CA	2016-date
Advisory Board, Liu Idea Lab for Innovation & Entrepreneurship, Rice University, TX	2017-2020
Advisory Board, Akiri Inc., SF, CA	2017-date
Advisory Board, Cures Alzheimer's Fund, Boston, MA	2017-date
Steering Committee, Gulf Coast Consortium Innovative Drug Discovery and Development, Houston, TX	2017-date
Research Committee, AACR Outstanding Investigator Award for Breast Cancer	2021-2023

Ad Hoc Reviewers of other Journals and Conferences Journals (sampled, over 40 journals)

Academic Radiology; Bioinformatics; Cancer Research, Clinical Cancer Research, Computer Vision and Image Understanding; Cytometry; IEEE Computer Graphics & Applications; IEEE Trans. Systems, Man, and Cybernetics; IEEE Trans. Medical Imaging; IEEE Journal of Biomedical and Health Informatics; International Journal of Digital Libraries; Journal of American Medical Informatics Association; Journal of Biomedical Informatics; Journal of Magnetic Resonance Imaging; Journal of Microscopy; Nature; Nature Biotech; Nature Machine Learning; Nature Methods; Nature Protocols, Neuroinformatics; NeuroImage; Neurology; Medical Physics; Radiology; Science

Conferences (sampled)

American Association of Cancer Research Annual Conferences
Computer Assisted Radiology and Surgery Conferences
IEEE International Conferences on Biomedical Informatics (IEEE BHI)
IEEE International Conferences on Data Engineering
IEEE International Symposiums on Circuits and Systems (ISCAS)
IEEE International Symposiums on Biomedical Imaging (ISBI)
IEEE Biological and Health Informatics Annual Conferences
International Society and Conference Series on Medical Image Computing and Computer-Assisted Intervention (MICCAI)
Radiological Society of North America (RSNA) Annual Meetings
Society of Neuroscience Annual Conferences
SPIE Photonics West Annual Conferences

Other Regional, national, or international contributions (excluding program, evaluation, and advisory committees) **Dates**

Session Moderator, 7th Conference of SPIE AI Applications, SPIE-The International Society of Optical Engineering, Orlando, FL	1989
Course Instructor, "Knowledge Based Systems," NSF Engineering Research Centers Symposium, Washington, D.C.	1990
Course Instructor, "Parallel Logic Programming," Knowledge Representation Workshop, Int. Conf. of Fifth Generation Computer Systems, Tokyo, Japan Scientific Session Moderator, 6th International Symposium of legal knowledge and legal reasoning systems, Tokyo, Japan	1992
Course Instructor, "Parallel Knowledge Base Management System," Int. Conf. of Fifth Generation Computer Systems – Post-ICOT, Tokyo, Japan	1993

Course Instructor, "Medical Image Informatics," Medical Information Sciences Colloquium, School of Medicine, Stanford University, Stanford, CA	1994
Course Instructor, "Situation semantics of legal reasoning databases," Annual International Conference of Situation Theory and Its Applications, Saint Mary College, CA	1994
Course Instructor, "Medical Image Databases - A New Frontier of Medical Imaging Infrastructure" Colloquium Series, Department of Electrical Engineering and Computer Sciences, The University of California, Berkeley, CA	1995
Course Instructor, "Medical Image Compression," International Symposium on Circuits and Systems, IEEE Circuits and Systems Society Annual Conference, Seattle, WA	1995
Course Instructor, "Biomedical Image Database Systems," IEEE Engineering in Medicine and Biology Society (EMBS) Meeting, Oakland, CA	1995
Course Instructor, "Medical Image Informatics Infrastructure," Department of Radiology Colloquium, Stanford University, CA	1996
Course Instructor, "Image Management in Digital Hospitals," Department of Electrical Engineering, ISL Colloquium Series, Stanford University, CA	1996
Course Instructor, "Medical Imaging Informatics," Stanford 1996 International Summer School on Medical Informatics, Stanford University, CA	1996
Course Instructor, "Emerging Field of Medical Image Informatics," NIH Clinical Center and NIH DCRT, Bethesda, MD	1996
Course Instructor, "Post-processing methods of rendering and visualizing 3-D reconstructed tomographic images," High Resolution CMT Workshop, Lawrence Berkeley National Laboratories, Berkeley, CA	1996
Chair, "Research and Technological Issues of Digital Hospitals," Digital Hospital Panel, International Conference on Forum of Advances in Digital Library, Library of Congress, Washington, DC	1996
Scientific Session Chair, International Conference on Computer-Aided Radiology and Surgery, Berlin, Germany	1996
Course Instructor, "Medical Image Informatics Primer," International Summer School on Medical Information Sciences, Stanford University, CA	1997
Course Instructor, "Informatics of Biomedical Imaging," UCLA School of Medicine Visiting Professorship Series Lecture, UCLA, CA	1997
Course Instructor, "Distributed Object Technology for Health Care Information Management," IEEE Engineering in Medicine and Biology Society, Special Topic	1998
Conf on Information Technology Applications in Biomedicine, Washington DC Course Instructor, "Content Based Image Retrieval in Medicine," International conf on Computer Vision and Pattern Recognition, UCSB, Santa Barbara, CA	1998
Course Instructor, "Medical Image Informatics," International Summer School of Medical Informatics, Stanford University, CA	1998

Scientific Session Chair, SPIE Medical Imaging Conference, Newport Beach, CA	1998
Course Instructor, "Biomedical Image Informatics," International Summer School of Medical Informatics, Stanford University, CA	1999
Course Instructor, "Building Imaging Information Management Systems for Digital Hospitals" Distinguished Lecturer Series in Database Systems, IBM Watson Research Center, NY	1999
Course Instructor, "CORBA and its Applications in Biomedicine" NIH Human Brain Project Annual Spring Meeting, Bethesda, MD	1999
Scientific Session Chair, SPIE Internet Multimedia Management Systems Conference, Boston, MA	2000
Course Instructor, "ECN: Electronic Communication Networks," International Forum of On-line Brokerage, Miami, FL	2000
Course Instructor, "Clinical Neuroinformatics Data Warehouse," NIH Human Brain Program Annual Meeting, Bethesda, MD	2001
Course Instructor, "How to Build an Electronic Image Data Warehouse," Neuroimaging Databases and Tools Workshop, Annual Meeting of Neurosciences, San Diego, CA	2001
Session Chair, IEEE Engineering Management Society. Portland International Conference on the Management of Engineering and Technology, Portland, OR	2001
Course Instructor, "Data Management Issues in Bioinformatics," Electronic Imaging Conference, Photonic West 2002, San Jose, CA	2002
Course Instructor, "Information Technological Infrastructure for Biological Sciences Research and for Technology Universities in the new Millennium," University of California, Merced, Joint Dean of Engineering and Dean of Science Seminar Series, Merced, CA	2002
Course Instructor, "Neuroinformatics Infrastructure for Translational Studies," University of California, Davis, Department of Bioengineering, Davis, CA	2002
Panel Chair, "Multimedia indexing and Retrieval: Are we making any progress?" Electronic Imaging 2002, San Jose, CA	2002
Scientific Session Moderator and Program Committee, Internet Multimedia Management Systems IV Conference, SPIE Symposium on ITCOM 2003, Orlando FL	2003
Chair, Inaugural Meeting Special Interests Group in Computational Systems Bioinformatics and Biosciences (SIG CSBB), IEEE Computer Society Bioinformatics Conference, Stanford, CA	2003
Course Instructor, "Applied Bioinformatics in Clinical Neurosciences" Annual Meeting of Clinical Neurosciences, HKCU, Brain Symposium, Hong Kong	2003
Chair, Inaugural Meeting IEEE Circuits and Systems Society, Life Science Systems and Applications Technical Committee, Vancouver, Canada	2004

Course Instructor, "Image Informatics in Systems Biology," Photonics Asia, Beijing, P.R. China.	2004
Chair, Life Science Data Mining Workshop, IEEE International Conference on Data Mining, Brighton, England.	2004
Chair, NIH-NSF-IEEE Multimodal Bio-Medical Systems Workshop, NIH, Bethesda, MD.	2005
Session Chair, Life Science Systems, 2005 IEEE ISCAS Conference, Kobe, Japan. Session Chair, Data Mining, The 18th IEEE Symposium on Computer-Based Medical Systems, 2005, Dublin, Ireland.	2005
Chair, IEEE 2nd International Workshop on Life Science Systems and Applications, NIH, Bethesda, MD.	2006
Session Chair, 2006 Body Sensors Networks Workshop, Cambridge, MIT	2006
Session Chair, Life Science Systems, 2006 IEEE ISCAS Conference, Greece	2006
Session Chair, Life Science Systems, 2007 IEEE ISCAS Conference, New Orleans	2007

Patents:

U.S. Patent 5,930,804. Web-based biometric authentication system and method	July 27, 1999
U.S. Patent 6,076,166. Personalizing hospital intranet web sites	June 13, 2000
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U.S. Patent 6,260,021. Computerized medical image distribution system and method	July 10, 2001
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U.S. Patent 9,651,554. Stephen T.C. Wong, Hong Zhao Molecular diagnostic methods for predicting brain metastasis of breast cancer	May 16, 2017
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U.S. Patent 10,913,068. Joseph Sylvester Chang, Geok Soon Lim, Lei Zhang, Zhiping Wang, Ruige Wu, Stephen T.C. Wong, Kemi Cui Testing device, microfluidic chip and nucleic acid testing method	Feb 9, 2021
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Drug repositioning methods for targeting breast tumor initiating cells	Nov 22, 2012
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U.S. Patent Application, 20200121666 Stephen T.C. Wong, Xiaofeng Xia, Xiaoyun Xu, Doo yeon Kim, Rudolph, E. Tanzi Tau phosphorylation inhibitors and methods for treating or preventing alzheimer's disease.	April 23, 2020
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Selected Abstracts/Posters

Selected Abstracts/Scientific Exhibits/Invited Talks/Tutorials (selected from over 300, not appeared as journal or full-length conference papers):

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123. Stubbins RE, Cheng TH, Yu X, et al. The use of a behavior modification clinical solution application to improve breast cancer survivors' accountability and health outcomes. Poster presentation at: *2017 San Antonio Breast Cancer Symposium*; December 6-9, 2017; San Antonio, TX. Abstract P5-18-02.
124. Cesar Gentile Sanchez, Qian Qin, Joe Ensor, Mamta Puppala, **Stephen Wong**, Ibrahim F. Ibrahim, Lawrence Rice, Sai Ravi Kiran Pingali and Swami P. Iyer. Infections in Patients with Myelodysplastic Syndrome. Looking for the Escape Clause! American Society of Hematology ASH 2017, Atlanta, GA, Dec 9-12, 2017. *Blood* 2017 130:1694.
125. Cesar Giancarlo Gentile Sanchez, Kai Sun, Purnima Sravanti Teegavarapu, Mamta Puppala, **Stephen TC Wong**, Qin Qian, Ibrahim Fuad Ibrahim, Lawrence Rice, Sai Ravi Pingali, Swaminathan Padmanabhan Iyer. ESKAPEade in hematological malignancies: Dare to review! *Journal of Clinical Oncology* 35 (15_suppl), e18110-e18110.
126. Deepa Gotur, Sai Ravi Kiran Pingali, Lawrence Rice, Ibrahim F. Ibrahim, Janice L Zimmerman, **Stephen Wong**, Christopher Jude Cortes, Mamta Puppala, Zheng Yin, Jasleen K. Randhawa and Swami P. Iyer. Rothman Index As a Real-Time Predictor of Intensive Care Unit Admissions and Mortality in Acute Myeloid Leukemia Patients Undergoing Induction Chemotherapy. *American Society of Hematology ASH 2017*, Atlanta, GA, Dec 9-12, 2017. Abstract 3444.
127. Tsz-Lun Yeung, Jianting Sheng, Samuel C. Mok, and **Stephen T. C. Wong**. Abstract 2096: Multicellular modeling and identification of protein ligand-mediated and exosome-mediated crosstalk signaling cascades in the heterogeneous ovarian tumor microenvironment, *AACR Annual Meeting 2018*; April 14-18, 2018.
128. D Bradley, Z Yin, JZ Liu, AM Blaszcak, ST Wong, W Hsueh. Adipocyte EGFL6 Expression from Subcutaneous Adipose Tissue Alters Glucose Homeostasis and Affects Human Obesity. *Diabetes* 2018 Jul; 67(Supplement 1).
129. L Huang, SG Injac, X Li, A Adekunle, H Zhao, C Lau and **ST Wong**. Abstract 1309: Network as a biomarker to predict drug candidates: Mapping driver dysregulated target networks onto pharmacologic data-derived drug networks identifies cardiac glycosides as the potential treatment of Group 3 medulloblastomas. *AACR Annual Meeting 2018*; April 14-18, 2018.
130. Lee J, Frost A, Rajtakmuller L, Coralic A, Ruocco E, Puppala M, Wang L, **Wong S**, Jackson R. Quality Improvement Project to Reduce COPD Readmission Rate in Medicare Patients Using a Multidisciplinary Protocol-Based care Plan. *CHEST Annual Meeting*, San Antonio, TX, October 6-10, 2018.
131. Markowitz GJ, Philip M, **Wong S**, Schietinger AS, Mittal V. Identification and characterization of novel mediators of tumor-induced T-cell dysfunction. *Journal of Immunology* vol 200, S1-57.35.
132. He T, Puppala M, Ezeana CF, Huang Y, Chou P, Yu X, Chen S, Wang L, Yin Z, Danforth RL, Patel T, Chang J, **Wong STC**. An Artificial Intelligent Decision Support Tool for Precision Risk Assessment of Breast Cancer. *30th Anniversary AACR Special Conference Convergence: Artificial Intelligence, Big Data and Prediction in Cancer*. Newport, RI 2018.
133. Puppala M, He T, Ezeana CF, Huang Y, Chou P, Yu X, Chen S, Wang L, Yin Z, Danforth RL, Patel T, Chang J, **Wong STC**. ATHEERA: AI Toolkit for Healthcare Data Extraction, Apprehension and Reuse Applications. *30th Anniversary AACR Special Conference Convergence: Artificial Intelligence, Big Data and Prediction in Cancer*. Newport, RI 2018.
134. Puppala M, He T, Ezeana CF, Huang Y, Chou P, Yu X, Chen S, Wang L, Yin Z, Danforth RL, Patel T, Chang J, **Wong STC**. BRISK: An Artificial Intelligent Decision Support Tool for Precision Risk Assessment of Breast Cancer. *6th Annual Houston Methodist Cancer Symposium* 2018.

135. Andrei M Mikheev, Svetlana A. Mikheeva, Liza J. Severs, Cory C. Funk, Lei Huang, José L. Mcfaline-Figueroa, Jeanette Schwensen, Cole Trapnell, Nathan D. Price, **Stephen T. Wong**, Robert C. Rostomily. Targeting TWIST1 through loss of function inhibits tumorigenicity of human glioblastoma, *Molecular Oncology*, 2018. <https://doi.org/10.1002/1878-0261.12320>
136. Stubbins R, He T, Yu X, Puppala M, Ezeana CF, Chen S, Danforth RL, Ensor J, Rodriguez A, Niravath P, Chang JC, Patel TA, **Wong ST**. MOCHA: A Behavior-Modification Digital Therapeutics Platform to Improve the Accountability and Health Outcomes of Breast Cancer Survivors. *6th Annual Houston Methodist Cancer Symposium* 2018.
137. Puppala M, He T, Ezeana CF, Huang Y, Chou P, Yu X, Chen S, Wang L, Yin Z, Danforth RL, Patel T, Chang J, **Wong STC**. ATHEERA: An Artificial Intelligence Powered Toolkit for Healthcare Data Extraction, Apprehension and Reuse Applications. *6th Annual Houston Methodist Cancer Symposium* 2018.
138. Cummock, J, Wong, K, **Wong, ST** & Volpi, J 2019, NIHSS Discrepancy and Reliability in Stroke Triage. *Neurovascular and Neurodegenerative Diseases*, Paris, France, 10/28/19 - 10/30/19.
139. K. Somelar, Z. Yin, D.Y. Kim, L. Quinti, X. Yuan, S.H. Choi, R.E. Tanzi, **S.T.C. Wong**. A scoring system for ranking potential compounds reducing tau hyperphosphorylation based on Pharmacologic and Bioinformatics Analysis, *ADPD 2019, International Conference on Alzheimer's and Parkinson's Diseases*, Lisbon, Portugal, 26th - 31st March 2019.
140. Zheng Yin, Doo Yeon Kim, Luisa Quinti, Kelli Somelar, Xuemei Yuan, See Hoon Choi, Rudolph E. Tanzi, and Stephen T.C. Wong. SysteMatic Alzheimer's Disease Drug ReposiTioning (SMART) based on Bioinformatics-guided High Content Screening and Image-omics Modeling, *ADPD 2019, International Conference on Alzheimer's and Parkinson's Diseases*, Lisbon, Portugal, 26th - 31st March 2019.
141. Ren Kong, Uddalak Bharadwaj, Thomas Kris Eckols, Moses Kasembeli, Mikhail Kolosov, Anh Tran, Oluwatomilona I. Ifelayo, Hong Zhao, **Stephen T. Wong** and David J. Tweardy. Novel STAT3 inhibitors identified by Structure-Based Virtual Ligand Screening incorporating SH2 domain flexibility. *Proceedings of the American Association for Cancer Research Annual Meeting 2019*; 2019 Mar 29-Apr 3; Atlanta, GA. Philadelphia (PA): AACR; Cancer Research 2019;79(13 Suppl):Abstract nr 17.
142. Seyda Baydogan, Jianting Sheng, Nermin Kahraman, Pinar Kanlikilicer, Hamada, Ahmed Mokhlis, Sayra Dilmac, **Stephen T. C. Wong** and Bulent Ozpolat. Exosomal transfer of tumor-associated macrophage derived miR-6068 promote ovarian cancer progression, *Proceedings of the American Association for Cancer Research Annual Meeting 2019*; 2019 Mar 29-Apr 3; Atlanta, GA. Philadelphia (PA): AACR; Cancer Research 2019;79(13 Suppl):Abstract nr 3563.
143. Glassner K, Gajula P, Euers L, Jones-Pauley M, Ezeana CF, Puppala M, Wang L, **Stephen Wong TC**, Ayah O, Nickerson S, Abraham B. Risk Factors for Repeated Visits to the Emergency Department in Patients with Inflammatory Bowel Disease. *Digestive Disease Week (DDW)*, San Diego, CA, May 18-21, 2019; Gastroenterology vol 156(6):S-431.
144. Tsz-Lun Yeung, Cecilia Leung, Sammy Ferri-Borgogno, Kay-Pong Yip, Jianting Sheng, Long Vein, Laura Bover, Michael Birrer, **Stephen Wong**, Samuel C Mok. Abstract C099: Anticancer immunotherapy by MFAP5 blockade inhibits fibrosis and enhances chemosensitivity in ovarian and pancreatic cancer, *Molecular Cancer Therapeutics*, 2019 Oct 26-30; Boston, MA. Philadelphia (PA): AACR; Mol Cancer Ther 2019;18(12 Suppl).
145. Sammy Ferri Borgogno, Tsz-Lun Yeung, Cecilia S Leung, Chi Lam Au Yeung, Ying Zhu, **Stephen T Wong** and Samuel C Mok. Abstract B045: A novel immune checkpoint regulator in the ovarian cancer microenvironment. *Proceedings of the AACR-NCI-EORTC International Conference on Molecular Targets*

and Cancer Therapeutics; 2019 Oct 26-30; Boston, MA. Philadelphia (PA): AACR; Mol Cancer Ther 2019;18(12 Suppl).

146. Xiang Nan, Jiang Wang, Jianting Sheng, Ching C. Lau, Jason T. Yustein, Hong Zhao and **Stephen Wong**. Imatinib revives the therapeutics potential of metformin in Ewing sarcoma by attenuating tumor hypoxic response and inhibiting convergent signaling pathways. *Proceedings of the AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics*; 2019 Oct 26-30; Boston, MA. Philadelphia (PA): AACR; Mol Cancer Ther 2019;18(12 Suppl):Abstract nr A140.
147. Kerri Glassner, Michelle Jones-Pauley, Prianka Gajula, Lindsay Euers, Chika F Ezeana, Mamta Puppala, Lin Wang, **Stephen T Wong**, Ayah Oglat, Stephanie Nickerson, Bincy Abraham. Risk Factors for and Frequency of Steroid Utilization in Inflammatory Bowel Disease Patients Seen in the Emergency Department: 693, 2019 *ACG Annual Meeting Abstracts*, The American Journal of Gastroenterology: Oct 2019;114:S405-S406.
148. Wenjuan Wang, Jin Liu, Tengfei Wang, Zongtao Hu, Li Xia, Hongzhi Wang, Lizhuang Yang, **Stephen TC Wong**, Xiaochu Zhang, Hai Li. Non-rigid Registration of White Matter Tractography Using Coherent Point Drift Algorithm. *MBIA 2019*, MFCA 2019: Multimodal Brain Image Analysis and Mathematical Foundations of Computational Anatomy Lecture Notes in Computer Science (LNCS) volume 11846:pp 3-11.
149. HN Liu, J Sheng, H Zhao, **S Wong**. Systematic identification of astrocyte-tumor crosstalk regulating brain metastatic tumors. 2020 *Cancer Research* 80 (11 Supplement), 46-47.
150. Han Cun, Jianting Sheng, Rita Cheng, Sammy Ferri-Borgogno, Jae-Hoon Kim, Gwan Hee Han, Joseph Celestino, Karen Hsieh Lu, **Stephen TC Wong**, Samuel C Mok. Development of novel biomarkers for early detection of high-grade serous ovarian cancer in high-risk women using exosomal miRNAs. *SGO 2020 Annual Meeting on Women's Cancer*, 3/29/2020.
151. Z Yin, C Bakal, **ST Wong**. Abstract 6570: Predicting drug effects on breast cancer cell shapes by converging image and transcriptomic profiles. AACR Annual Meeting 2020; April 27-28, 2020 and June 22-24, 2020; Philadelphia, PA, *Cancer Research* 80 (16 Supplement), 6570.
152. Han Cun, Emily M Hinchcliff, Ying Zhu, Sammy Ferri-Borgogno, Rita Cheng, Jared K Burks, **Stephen T Wong**, Amir A Jazaeri, Samuel C Mok. Abstract 3267: Identification of a novel biomarker response in a prospective clinical trial of immune checkpoint blockade in recurrent ovarian carcinoma. AACR Annual Meeting 2020; April 27-28, 2020 and June 22-24, 2020; Philadelphia, PA. *Cancer Research* 80 (16 Supplement), 3267.
153. Ying Zhu, Jianting Sheng, Sammy Ferri-Borgogno, Tsz-Lun Yeung, Jared K Burks, Samuel C Mok, **Stephen T Wong**. Abstract: 854: An artificial intelligence pipeline for imaging mass cytometry data analysis and its application in ovarian cancer prognostic biomarker discovery. AACR Annual Meeting 2020; April 27-28, 2020 and June 22-24, 2020; Philadelphia, PA. *Cancer Research* 80 (16 Supplement), 854.
154. J Li, Y Wang, Y He, MC Farach-Carson, **STC Wong**. Abstract 4252: 3D label-free, real-time, intelligent-augmented chemistry-sensitive imaging to identify parathyroid adenoma and hyperplasia and to classify parathyroid glands and recurrent laryngeal nerve during surgery. AACR Annual Meeting 2020; April 27-28, 2020 and June 22-24, 2020; Philadelphia, PA. *Cancer Research* 80 (16 Supplement), 4252.
155. Sarah Injac, L Frank Huang, Stephen Mack, Frank Braun, Yuchen Du, Mari Kogiso, Holly Lindsay, D William Parsons, Hong Zhao, Ching C Lau, **Stephen TC Wong**, Xiao-nan Li. MBRS-17. Examining the Role of Lhx9 in Group 3 Medulloblastoma, *Neuro Oncol.* 2020 Dec; 22(Suppl 3): iii401.

156. Aaron M Taylor, Jianhe Shen, Lingzhao Ren, Keita Terashima, Lei Huang, Elizabeth M Snyder, Adekunle Adesina, Jack Su, Ryo Nishikawa, Hideo Nakamura, Ho-Keung Ng, **Stephen TC Wong**, Robert E Braun, Tsz-Kwong Man, Ching C Lau. GCT-73. Expression Profiling of Intracranial Germ Cell Tumors Reveals Upregulation of Ras Through Mrna-Microrna Signaling Pathway. *Neuro Oncol.* 2020 Dec; 22(Suppl 3): iii343.
157. Han Cun, Jianting Sheng, Rita Cheng, Sammy Ferri-Borgogno, Jae-Hoon Kim, Gwan Hee Han, Joseph Celestino, Karen Hsieh Lu, **Stephen TC Wong**, Samuel C Mok. Development of novel biomarkers for early detection of high-grade serous ovarian cancer in high-risk women using exosomal miRNAs, *SGO 2020 Annual Meeting on Women's Cancer*, Toronto, Canada, March 29, 2020.
158. Han Cun, Emily Moss Hinchcliff, Ying Zhu, Sammy Ferri-Borgogno, Rita Cheng, Jared Kyle Burks, **Stephen TC Wong**, Amir Anthony Jazaeri, Samuel C Mok. Identification of a novel biomarker response in a prospective clinical trial of immune checkpoint blockade in high-grade serous ovarian carcinoma, *SGO 2020 Annual Meeting on Women's Cancer*, Toronto, Canada, March 29, 2020.
159. Geoffrey Markowitz, Yi Ban, Michael Crowley, Diamile Tavares, **Stephen TC Wong**, Kenneth Chang, Andrea Schietinger, Nasser Altorki, Vivek Mittal. 52350 PKM2 mediates anti-tumor immunity and T cell dysfunction. *Journal of Clinical and Translational Science*, vol 5, issue 1. 31 March 2021: p.89.
160. S Ferri-Borgogno, J Sheng, Y Zhu, KK Wong, **ST Wong**, SC Mok. Spatially resolved transcriptomics identified distinct tumor-stroma crosstalk networks in long term ovarian cancer survivors. 2021 *Cancer Research* 81 (13 Supplement), 103.
161. T He, W Zhang, J Li, J Sheng, X Zhang, **ST Wong**. Mapping spatial cellular dynamics of bone marrow niches in metastatic breast cancer. 2021 *Cancer Research* 81 (13 Supplement), 128.
162. P Yuan, T He, H Nguyen, **ST Wong**. A deep learning model-based lung cancer risk assessment for incidental pulmonary nodules. 2021 *Cancer Research* 81 (13 Supplement), 2614.
163. Han T Cun, Ying Zhu, Sammy Ferri-Borgogno, Jianting Sheng, Rita Cheng, Jae-hoon Kim, Gwan Hee Han, **Stephen T Wong**, Karen H Lu, Samuel C Mok. The unique tumor immune microenvironment of clear cell ovarian carcinoma. 2021 *Cancer Research* 81 (13 Supplement), 2749.
164. H Zhao, X Wang, N Liu, J Sheng, **S Wong**. Modeling cell-cell crosstalk in TNBC brain metastasis. 2021 *Cancer Research* 81 (13 Supplement), 7.
165. Lin Wang, Xin Wang, Chika F. Ezeana, Mamta Puppula, Yunjie He, Zheng Yin, Eugene C. Lai, **Stephen T. C. Wong**. Identifying Factors and Predictive Model for Hospitalization Outcomes in Geriatric Patients with Neurodegenerative Diseases. *ADPD 2021, International Conference on Alzheimer's and Parkinson's Diseases*, Barcelona, Spain, March 9-14, 2021.
166. Han Cun, Ying Zhu, Sammy Ferri Borgogno, Jianting Sheng, Rita Cheng, Jae-Hoon Kim, Gwan Hee Han, **Stephen Wong**, Karen Lu, Samuel Mok. Clear cell ovarian tumors display a unique tumor immune microenvironment, *Gynecologic Oncology*, 162, supp. 1, Aug 2021: S110-S111
167. Ghosh, R, Cummock, JS, Wong, K, Volpi, JJ & **Wong, ST** 2021, 'Retrospective study of deep learning denoising to improve contrast-to-noise ratio in missed hyperacute ischemic stroke lesions', *European Stroke Organization Conference 2021*, 9/1/21 - 9/3/21 pp. 1717.

Selected Invited Lectures and Keynotes (selected from more than 400 invited talks and keynotes)

1. Distributed object technology for health care information management. *IEEE EMBS special topic conference on information technology applications in biomedicine (ITAB '98)*, Washington DC, May 16-17, 1998 (Invited Lecture).
2. Content based retrieval in Medicine – Still a long way to go. *CBAIVL '98 workshop*, CVPR '98, Santa Barbara, June 21, 1998 (Invited Lecture).
3. The arrival and proliferation of electronic communication networks, *International Forum of On-line Brokerage*, Miami, Florida, May 2000 (Invited Lecture).
4. Integrating bioinformatics advances into disease management systems to improve quality of care, *IEEE Computer Society Bioinformatics Conference*, Stanford, CA, Aug 2003 (Invited Lecture).
5. High Throughput Microscopy. *I3C Consortium Meeting*, Hinxton, England Oct 2003 (Invited Lecture).
6. Applying bioinformatics into clinical neuroscience in the 21st Century, *Brain Symposium – 2003, Annual Meeting of Clinical Neurosciences*, HK, Dec 2003 (Keynote).
7. Neuroscience meets Grid computing: challenges and applications. *GlobusWorld 2004*, San Francisco, CA, Jan 2004 (Invited Lecture).
8. Multi-scale imaging in bioinformatics – from bench to bedside, Future Direction of CAS Workshop, *IEEE ISCAS 2005*, Kobe, Japan, May 27, 2005 (Keynote).
9. Bioinformatics advances in neuron imaging. *9th IEEE International Workshop on Cellular Neural Networks and their Applications*, Hsinchu, Taiwan, May 28-30, 2005 (Keynote).
10. Informatics challenges of high content cellular data. Imaging in Biological Systems Workshop, GE Corporate Research Center, Niskayuna NY, Aug 25-26, 2005 (Invited).
11. Biomedical applications of super resolution imaging – From micro to macro, *International Conference on Super-Resolution Imaging*, Hong Kong, China, August 29-31, 2005 (Invited Lecture)
12. An image informatics pipeline for high content screening, *11th Annual Society of Biomolecular Screening (SBS) Conference*, Geneva, Switzerland, Sept 11-15, 2005 (Invited Lecture).
13. Image-based approach towards personalized medicine. *Annual American Medical Informatics Association (AMIA) Meeting*, Washington DC, October 2005 (Invited Lecture).
14. Informatics of high content bioimaging, *NIH-BISTI Microscopy Workshop*, Ohio State University, Columbus, Ohio, Dec 8, 2005. (Keynote)
15. Imaging in systems biology, *Shanghai University Institute of Systems Biology Review Meeting* April 2006 (Keynote)
16. Bioinformatics of high content screening, *IEEE GENSIPS' 2006*, College Station, TX, May 28-30 2006 (Invited Lecture).
17. Brain mapping techniques for computer aided diagnosis and follow up. Society for Industrial and Applied Mathematics (SIAM) Annual Meeting, Boston, MA, July 11-14, 2006 (Invited Lecture)

18. An advanced image informatics framework for high content screening, Advanced Technologies in Biological Imaging Workshop, Helsinki, Finland, Oct 26-27 2006 (Invited Lecture).
19. Imaging technology for drug discovery and development, Annual American Medical Informatics Association (AMIA) Meeting, Washington DC, Nov 12-15, 2006 (Invited Lecture).
20. Imaging informatics in systems biology, Annual American Medical Informatics Association (AMIA) Meeting, Washington DC, Nov 12-15, 2006 (Invited Lecture).
21. Brain mapping techniques for computer-aided neurological diagnosis and follow-up studies. International Workshop on Scientific Computing: Models, Algorithms and Applications, December 7-9 2006, Hong Kong, SAR China (Keynote).
22. Computational imaging in systems biology – Tutorial. International Workshop on Scientific Computing: Models, Algorithms and Applications, December 7-9 2006, Hong Kong, SAR China (Invited Lecture).
23. Imaging as a biomarker – a multi-scale perspective. International Conference on Biomedical and Pharmaceutical Engineering 2006, 11-14 December, 2006, Singapore (Keynote).
24. Bioinformatics of high content screening – Public Lecture. International Conference on Biomedical and Pharmaceutical Engineering 2006, 11-14 December, 2006, Singapore (Keynote).
25. Commercial potential for high content screening tool. MBA Program class seminar, Harvard Business School, Jan 15, 2007 (Invited Lecture).
26. Recent developments of high throughput for studying neurological disorders, CIMIT Forum, Harvard Medical School, Jan 30, 2007 (Invited Lecture).
27. Development of optical microscopy imaging and computing solutions for translational neuroscience research, First Monday Seminar, Department of Radiology, Brigham and Women's Hospital, March 5, 2007 (Invited Lecture).
28. Multimodal image bioinformatics. Methodist Infectious Disease Symposium, March 22, 2007 (Invited Lecture).
29. Informatics of multi-scale image phenotyping. North Carolina Metabolomics and Nutrigenomics Workshop, UNC-Charlotte, April 8, 2007 (Invited Lecture).
30. Image-Guided Therapy in the Postgenomic Era. NIST, May 17, 2007 (Invited Lecture).
31. Molecular Image-Guided Therapy: A Systems Approach. Symposium of Translational Optical Molecular Imaging: Nano to Macro. Rice University, May 22, 2007 (Invited Lecture).
32. Informatics of Multi-Scale Biomedical Imaging: From Cell Profiling and Drug Screening to Computer-aided Detection and Image-Guided Therapy. UT Health Science Center Seminar, Aug 29, 2007 (Invited Lecture).
33. Fusing Systems Biology and Imaging for Personalized Medicine. Grand Round, Department of Pathology, The Methodist Hospital, Sept 4, 2007 (Invited Lecture).
34. Crossing Systems Biology and Imaging for 21st Century Biomedical Research. Cardiovascular Research Seminar, Baylor College of Medicine, Sept 5, 2007 (Invited Lecture).
35. High throughput imaging for systems neurobiology, International Conference on Life System Modeling and Simulation, 2007 (LSMS 2007), Shanghai, Sept 14, 2007 (Invited Lecture).

36. Molecular Image-Guided Therapy, Systems Biology Institute, Shanghai University, Shanghai, Sept 17, 2007 (Invited Lecture).
37. Linking Bioinformatics and Imaging for Personalized Medicine, TMHRI Grand Round, Oct 17, 2007 (Invited Lecture).
38. New Informatics and image-guided techniques for biomarker discovery and theranostics, BioHouston Annual Conference, Nov 1, 2007 (Invited Lecture).
39. Merging Molecular Imaging and Systems Bioinformatics for Personalized Medicine in the Postgenomics Era, Department of Computer Science Seminar Series, Dec 11, 2007 (Invited Lecture).
40. Fusing Bioimaging and Bioinformatics for Personalized Medicine. Biopolis Invited Lecturer Series and A*Star seminar, Singapore, Dec 12, 2007 (Invited Lecture).
41. In Vivo Molecular Imaging – A New Dimension for Image-Guided Therapy, National Neuroscience Institute of Singapore, Dec 14, 2007 (Invited Lecture).
42. Combining bioinformatics and molecular imaging for personalized medicine. *Computational Models for Life Sciences (CMLS'07)*, Gold Coast, Australia, Dec 17-19, 2007 (Invited Lecture).
43. Multi-scale and multimodality imaging informatics in neuroscience. Gold Coast Consortium in Theoretical and Computational Neuroscience Annual Conference, Rice University, Houston, TX Jan 12, 2008 (Invited Lecture).
44. Biomedical image computing - A systems perspective, Department of Computer Science, University of Houston, Houston, Jan 28, 2008 (Invited Lecture).
45. Combining proteomics diagnostics with CT perfusion data for managing blood thinners. Molecular Summit, Philadelphia, PA February 5, 2008 (Invited Lecture).
46. Neuroengineering for molecular diagnosis and therapy, *Texas-UK Collaboration Symposium*, Rice University, March 18, 2008 (Invited Lecture).
47. Bioinformatics in molecular imaging. *2008 Annual Meeting of Association of University Radiologists*, Seattle March 25, 2008 (Invited Lecture).
48. The Critical Role of Algorithms in the Interpretation of Multiplexed Protein Biomarker Panels, *Lab Infotech Summit*, Las Vegas, April 9, 2008 (Invited Lecture).
49. Combining the power of bioinformatics and medical imaging for personalized medicine, Department of Radiology Imaging Center Seminar, UCSD, San Diego, CA, April 14, 2008 (Invited Lecture).
50. Bioimage informatics tools for cancer systems biology. NCI Workshop on "Bridging the Gap from Molecules to Cell Behavior in Cancer", Seattle, July 8, 2008 (Invited Lecture).
51. Combining Serum Proteomics and CT/MR Perfusion Imaging Biomarkers for Personalized Acute Stroke Management, TMHRI Summer Program Seminar, July 16, 2008 (Invited Lecture).
52. A Systems Biology Approach of Drug Combination Treatment for Breast Cancer Metastasis, College of Engineering, University of Tokyo, Tokyo, July 31, 2008 (Invited Lecture).
53. Image-guided therapy in the postgenomic era. 4th Int. Workshop on Medical Imaging and Augmented Reality, The University of Tokyo, Tokyo, Japan, Aug 1, 2008 (Keynote).

54. Recent advances in Systems Neurobiology and Neural Imaging Research, School of Medicine, Shantong University, Shantong, China, Aug 4, 2008 (Invited Lecture).
55. Image-Guided Therapy in the Postgenomic Era, *College of Engineering and College of Medicine Joint Seminar Series*, Southwest University, Nanjing, China, Aug 10 2008 (Invited Lecture).
56. New Tactics of Drug Cocktail Breast Cancer Metastasis, Institute of Systems Biology, Shanghai University, Shanghai, China, Aug 12, 2008 (Invited Lecture).
57. Informatics and modeling issues in neural imaging science. Conference on "What can computer vision do for neuroscience and vice versa?" Howard Hughes Medical Institute, Janelia Farm, Sept 14-17, 2008 (Invited).
58. Molecular imaging – what it is and what it is not. Esad Feyei Lecture, Annual Turkish Radiologist Congress, Antalya, Turkey, Nov 3, 2008 (Keynote)
59. Neuroimaging Informatics: Mapping the Human Brain and Combating Neurological Disorders, *Annual Turkish Radiologist Congress*, Antalya, Turkey, Nov 3, 2008 (Invited).
60. Subspace Exploration: Pattern Change Recognition and Quantitation in Biomedical Imaging, University of Houston-Apache Symposium, Nov 6, 2008 (Invited).
61. Image-based systems neurobiology for drug repositioning and interventional medicine. *Department of Bioengineering Seminar Series*, Carnegie Mellon University, Nov 24, 2008 (Invited)
62. Bioinformatics for Clinical Radiologists, Radiological Society of Northern America (RSNA) 2008, Chicago, Nov 30, 2008 (Invited)
63. Imaging for systems biology in neuromedicine. *Sterling Hou Distinguished Lecture, College of Engineering, University of Missouri*, Columbia, Ohio, March 11, 2009 (Distinguished Lecture)
64. Image-based systems biology for drug repositioning and interventional medicine. *26th Houston Conference on Biomedical Engineering Research*, March 20, 2009 (Keynote)
65. Thousands in one: Systems biology approach for drug repositioning. *Image Bioinformatics Conference*, Howard Hughes Medical Institute, Janelia Farm, April 7, 2009 (Invited).
66. Bioinformatics: The key to putting everything together, *Annual Meeting of Association of University Radiologists*, May 12, 2009 (Invited).
67. Image-oriented systems biology methods in drug development and interventional medicine, *6th International Workshop on Computational Systems Biology*, Århus, Denmark, June 12 2009 (Keynote).
68. Bioinformatics: The key to putting everything together, **Society of Nuclear Medicine Molecular Imaging course**, June 13, 2009 (Lecture).
69. Systems biology approach towards drug repositioning/combinations and image-guided intervention, *Baylor College of Medicine Cancer Center Seminar Series*, Houston, July 31, 2009 (Invited).
70. Image-based systems biology for drug repositioning and combination studies, *CHI High content analysis-East*, Boston, MA, Sept 21, 2009 (Keynote).
71. Image-oriented systems biology methods for drug repositioning and interventional medicine in cancer, *4th Pulmonary Lung Imaging Conference*, Boston, MA, Sept 25, 2009 (Keynote)

72. Molecular image-guided therapy in the post-genomic era, *EWA Womans University School of Medicine Distinguished Lecturer Series*, Seoul, Korea, Oct 22, 2009 (Invited Lecture).
73. A new systems biology strategy for cancer drug repositioning and combinations. *School of Pharmacy Seminar Series*, Seoul National University, Seoul, Korea, Oct 23, 2009 (Invited Lecture).
74. A new systems biology strategy for drug repositioning and recombination, *IEEE BIBM Conference*, Washington DC, Nov 3, 2009 (Keynote).
75. Bioinformatics for Clinical Radiologists, *Radiological Society of Northern America (RSNA) 2009*, Chicago, IL, Dec 1, 2009 (Invited).
76. Recent advances of image-based systems biology, *Institute of Bioengineering Seminar Series*, Imperial College of Science, Technology and Medicine, London, U.K., Dec 19, 2009 (Invited).
77. Bioinformatics: The Key to Putting Everything Together, *58th Annual Meeting of Association of University Radiologists*, San Diego, CA, March 23, 2010 (Invited).
78. Molecular Image-Guided Therapy, *Cornell-Ithaca Molecular Targeting for imaging and intervention workshop*, March 27, 2010 (Invited).
79. A Systems Biology Approach for Drug Repositioning and Recombination for Breast Cancer, *DOD-U Texas Innovator Workshop*, Houston, TX April 12, 2010 (Invited).
80. Systematic Modeling of Cancer Development, *NCI-Integrated Cancer Biology Program Workshop*, May 4, 2010 Berkeley, CA May 4, 2010 (Invited).
81. Molecular Image-Guided Cancer Diagnosis and Therapy, *Fujian Cancer Hospital Seminar Series*, Fuzhou, China, July 2, 2010 (Invited).
82. Systems Pharmacology in Drug Repositioning/Combinations and Molecular Image Guided Cancer Diagnosis and Therapy, *SimTech Seminar Series*, A*Star, Singapore, July 8, 2010 (Invited).
83. A Systems Biology Approach to Aid Identification of New Applications for FDA-Approved Drugs and Drug Combinations for Cancer Stem Cells, *Cambridge Healthtech Institute's Second Annual-ADAPT (Accelerating Development & Advancing Personalized Therapy) Conference*, Arlington, VA, Sept 15, 2010 (Invited).
84. A Label-Free Approach for Molecular Imaging Guided Diagnosis and Therapy, *MICCAI-CIBT (Computational Imaging Biomarkers for Tumors: From Qualitative to Quantitative) Workshop*, Beijing, China, Sept 20, 2010 (Keynote).
85. Faster-to-Market Approach for Drug Repositioning and Combinations via Systems Biology, Chinese Academy of Sciences, Beijing, China, Sept 21, 2010 (Invited).
86. Translational Bioengineering & Bioinformatics at Methodist, *Rice Bioengineering Departmental Seminar Series*, Houston, TX, Oct 28, 2010 (Invited).
87. On New Approaches for Drug Development and Image-Guide Interventions, *UCSD Imaging Center Seminar Series*, San Diego, CA, Nov 8, 2010 (Invited L)
88. On Two New Approaches for Drug Development and Image-Guide Interventions, *Cambridge Healthtech Institute's Inaugural Stem Cells in Drug Discovery and Development Conference*, San Diego, CA, Nov 9, 2010 (Invited).

89. Automated Labeling and tracking of synaptic activities in population of neurons for understanding dynamic synaptopathology and treatment response, *Howard Hughes Medical Institute's Computer Vision Conference*, Janelia Farm, VA Nov 16, 2010 (Invited).
90. Bioinformatics for clinical radiologists, *RSNA Refresher Course*, Chicago, IL Dec 1, 2010 (Invited).
91. Faster-to-market approach for drug repositioning and combinations via systems biology, Chinese academic of Sciences, Shanghai, China, Dec 13, 2010 (Invited).
92. A Pathway-Based Systems Biology Approach for Drug Repositioning and Combinations, International Computer Symposium, Tainan, Taiwan, Dec 13, 2010 (Keynote).
93. Two New Approaches of Molecular Medicine in Drug Development and Image-guided Intervention, National Chiao Tung University, Hsinchu, Taiwan, Dec 18, 2010 (Keynote).
94. A Systems Biology Pipeline of Repositioning, Reformulation, and Discovery of Drugs (R2-D2) for Tumor Initiating Cells, *AACR-NCI Cancer Systems Cell Symp*, San Diego, CA, March 1, 2011 (Invited).
95. Multi-scale Imaging and Systems Biology in Translational Research, *University of Texas MD Anderson Cancer Center Image Physics Seminar Series*, Department of Radiology, TX, March 8 2011 (Invited).
96. Combining molecular imaging and systems biology for cancer treatment, *Biomedical Engineering Departmental Seminar Series*, Tulane Univ., New Orleans, March 24 2011 (Invited).
97. The Needle in a Haystack: Multi-scale imaging for target discovery and biomarker development in the molecular medicine era, *NSF Nanomedicine workshop*, Houston, TX, June 7, 2011 (Invited).
98. New Paradigms of Molecular Medicine for Enabling Faster-to-Market Drug Development and Molecular Image-Guided Intervention, Departmental Seminar Series, Shanghai Jiaotong University, Shanghai, PR China, July 8 2011 (Invited).
99. A Systems Medicine Paradigm for Drug Repositioning and Combinations, *The 9th International Bioinformatics Workshop (IBW2011)*, Xian, China, July 11, 2011 (Keynote).
100. Translational Biophotonics, *Department of Bioengineering Seminar Series*, Rice University, Sept 7 2011 (Invited).
101. A Systematic Strategy of Transcriptional Response Analysis to Identify Known Drugs for Alternate Uses in Cancer Treatment, *GENMINI Cancer Genome Workshop*, IPAM, UCLA, CA, Oct 31 2011 (Keynote)
102. Challenges and Opportunities of Bioinformatics in Medicine, *IEEE BIBM Conference Panel*, Atlanta, GA, Nov 14 2011 (Keynote).
103. Systems Pharmacology Strategies for Faster-to-Market Drug Development, *2011 IEEE International Workshop on Genomic Signal Processing and Statistics (GENSIPS)*, San Antonio, TX, Dec 6 2011 (Keynote).
104. Multi-scale Live Neuron Cell Assays to Study the Neurological Pathway and Identify Drug-Target Candidates, *CHI (Cambridge Health Initiatives) Live Cell Imaging Conference*, SF, CA, Jan 20, 2012 (Invited).
105. Systems and Chemical Biology Strategies for Faster-to-Market Drug Development, Departmental seminar, *Department of Molecular and Cellular Oncology and Center for Biological Pathways Seminar Series*, University of Texas MD Anderson Cancer Center, Jan 25, 2012 (Invited)

106. Label Free Interoperative Coherent Raman Scattering Imaging, *Texas A&M University Quantum Optics/AMO Physics Seminar Series*, Feb 21, 2012 (Invited).
107. Chemical and Systems Biology Strategies for Drug Repositioning, Computational and Integrative Biomedical Research Center, Baylor College of Medicine, Feb 22, 2012 (Invited).
108. High Content Bio-Chemo-Mechanical Screening and Modeling to Study Heterogeneity and Metastasis of Cancer for Drug Target Discovery, *American Physics Society Annual Meeting*, Boston, MA Feb 29, 2012 (Invited).
109. Systems and chemical biology approaches and tools for faster-to-market drug repositioning, *CHI 4th Drug Repositioning Summit*, Philadelphia, March 14 2012 (Invited).
110. Integrating molecular imaging and systems biology for early cancer detection and treatment, Department of Clinical Cancer Prevention Seminar Series, UT MD Anderson Cancer Center, Houston, TX, April 10, 2012 (Invited).
111. Differential diagnosis of lung cancer using molecular vibrational imaging, Houston Lung Symposium, Houston, TX, April 28, 2012 (Invited).
112. An integrative systems biology pipeline for fast track drug repositioning, *IEEE EMBS Conference San Diego*, Aug 28 2012 (Invited).
113. Quantitative Fiberoptic Molecular Vibrational Imaging for Label-free Interventional and Interoperative Procedures. *Biomedical Research Imaging Center Seminar Series*, University of North Carolina, Chapel Hill, NC, Sept 12, 2012 (Invited).
114. Emerging molecular vibration based spectroscopic imaging techniques for translational medicine, Department of Chemistry Seminar Series, University of Houston, Houston, TX, Sept 26 2012. (Invited).
115. Emerging Strategies in Molecularly-Targeted Medicine: Systemic Drug Repositioning & Label-Free Molecular Imaging, *IEEE Life Sciences Grand Challenges Conference at National Academy of Sciences*, Washington, DC, Oct 4 2012 (Invited).
116. Interoperative Molecular Imaging with No Label, Department of Biomedical Engineering Seminar Series, University of Texas at Austin, Oct 11, 2012 (Invited).
117. Systemic Drug Repositioning & Label-Free Molecular Imaging for Molecularly-Targeted Medicine, Weill Cornell-TMH Cancer Retreat, Oct 12, 2012 (Invited).
118. Systems and Chemical Biology Strategies for Faster-to-Market Drug Repositioning, *Annual Meeting of Association of American Physicians and Surgeons (AAPS)*, Chicago, IL, Oct 18, 2012 (Invited).
119. Multimodality image-guided molecular imaging system for peripheral lung cancer intervention, Annual Interventional Radiology Conference in China, Nanjing, PR China, Nov 1, 2012 (Invited).
120. Emerging Technical Platforms for Molecular-Targeted Medicine: Systematic drug repositioning and label free molecular imaging, Department of Electrical and Electronics Engineering Seminar Series, University of Hong Kong, HK SAR, PR China, Nov 5, 2012. (Invited).
121. Roles of Disease-specific Signaling Pathways in Personalized Medicine, *NCI-IMAT Symposium*, Houston, TX Nov 28, 2012. (Invited).

122. High content analysis and tissue diagnosis with label free multi-spectral molecular vibrational imaging, *CHI High content screening conference*, Washington, DC, Jan 9 2013. (Invited)
123. Systems and Chemical Biology Methods for Pathway-driven Drug Repositioning. Pharmacology Department Seminar Series, Weill Cornell Medical College, NYC, NY, Jan 15, 2013. (Invited)
124. Big data approach for drug repositioning. Department of Biochemistry Seminar Series, U Texas Health Sciences Center at Houston, Feb 25, 2013. (Invited)
125. Systems and Chemical Biology Strategies for Drug Repositioning. Annual retreat of Bioinformatics and Computational Biology Program, U Texas Memphis, March 23, 2014 (Keynote).
126. Quantitative and label free molecular vibration imaging for translational medicine, *International Symposium of Biomedical Imaging conference*, SF, April 8, 2013 (Keynote).
127. High resolution label free molecular imaging. *Center for Biomedical Imaging Seminar Series*, University of North Carolina, Chapel Hill, NC, May 29, 2013. (Invited Lecture)
128. Integrative Systems and Chemical Biology Methods for Mechanism-Based Drug Repositioning and Combinations, Texas A&M U, Rangel College of Pharmacy, Christi Corpus, June 28, 2013 (Keynote).
129. Seeing molecular signatures of cellular structures in vivo without label using molecular vibrational imaging, *IEEE EMBS Conference - Cytometry workshop*, July 3, 2013 (Keynote).
130. Big Data Drug Repositioning & Label-Free Molecular Imaging for Precision Medicine, Center for Biomedical Engineering Opening Ceremony, University of Science and Technology in China, Hefei, PR China, July 8, 2013 (Keynote).
131. A Systems Biology Approach to Aid Identification of New Applications for FDA-Approved Drugs and Drug Combinations for Cancer Stem Cells, *5th Annual Congress of Accelerating Development & Advancing Personalized Therapy (ADAPT) Congress*, Boston, MA, Nov 4-6, 2013. (Invited)
132. Systems Medicine and bioengineering program snapshots at Houston Methodist. IBM Research, Yorktown Height, NY Nov 22, 2013. (Invited)
133. Systems approach to drug development and cancer imaging, University of Texas Health Sciences Center at San Antonio NCI designated Cancer Center, San Antonio, TX, Dec. 9, 2013. (Invited).
134. Systems Medicine and bioengineering Department program snapshots. Department of Genetics Seminar Series, the University of Texas MD Anderson Cancer Center, Feb 3 2014. (Invited)
135. Integrative Big Data Pipeline for Drug Repositioning and Combinations. *IEEE Biological and Health Informatics Conference*, Valencia, Spain, June 2 2014 (Keynote).
136. Intra-operative Molecular Vibrational Imaging via stimulated Raman scattering techniques. *4th label free spectroscopy imaging workshop*, Purdue University, West Lafayette, IN, July 10 2014. (Invited)
137. Prioritizing and Integrating Existing Methods into Cost-effective and Efficient Pipelines for Drug Repositioning. *3rd Annual Drug Repositioning, Repurposing and Rescue Conference*, Boston, July 14, 2014. (Invited Lecture)
138. Integrative neurobiology strategies for studying neurodegeneration. Department Seminar Series, Department of Neurology, Hong Kong Chinese University School of Medicine, July 21, 2014. (Invited)

139. Big data computing in systems medicine, University of Texas-Austin Texas Advanced Computer Center, Austin, TX Aug 15, 2014. (Invited)
140. Big data computing and analysis in systems medicine, *Gulf Coast Consortium Seminar Series*, Houston, Sept 5, 2014. (Invited)
141. Multimodal Label free, Non-linear Optics Microscopy Imaging and Cancer Informatics, *NCI Multi-scale Imaging for Cancer Biology Workshop*, Houston, Sept 18, 2014. (Invited Lecture)
142. Multi-scale imaging and omics infrastructure and analytics. Radiomics meeting, The University of Texas, M.D. Anderson Cancer Center, Sept 29-30, 2014. (Invited Lecture)
143. A multi-modality imag-guidance platform for cancer intervention. Image-guided therapy seminar – ENT, Neurosurgery, Radiation Oncology, Oct 25, 2014. (Invited)
144. Applying Systematic Western Drug Repositioning Strategies to Traditional Chinese Medicine, *WFAS Houston 2014 Acupuncture & Integrative Medicine Conference*, Houston, Oct 31, 2014 (Keynote).
145. Big data analytics in systems medicine, *Baylor Genome Center Speaker Series*, Baylor College of Medicine, Houston, Nov 19 2014 (Invited).
146. On Translating Technology Research into Industrial Applications. *Practical Social and Industrial Research (PSIR) Symposium 2014*, Wanchai, Hong Kong, Dec 5, 2014 (Keynote).
147. Systems Medicine Approaches to Drug Development, Disease Modeling and Quantitative and Intraoperative Imaging. Chinese Academic of Science, Hefei, China, Dec 15, 2014. (Invited)
148. Combine single cell phenotyping with whole genome profile of perturbation responses. *CHI High Content Analysis Conference*, San Diego, Jan 26, 2015. (Invited)
149. Multi-scale imaging for stem cell research, The Center for Regenerative Medicine (CReM) lecture series, Boston University, Boston, March 17, 2015. (Invited)
150. Real-Time Optical Imaging, *Society of Interventional Radiology Meeting*, Washington DC, June 1, 2015 (Invited).
151. DRUGX™ platform – using big data analytics & systems biology modeling for faster cures, *Systematics DRPx Conference*, Boston, Oct 21 2015. (Invited)
152. Know Thy Neighbors: Modeling Obesity Microenvironment. *Annual ObesityWeek 2015, the combined annual meeting of The Obesity Society (TOS) and the American Society for Metabolic & Bariatric Surgery (ASMBS)*. Los Angeles, CA, Nov 5, 2015. (Invited)
153. Multi-scale Systems Biology Platform for Modeling Cancer Development, Chinese Academy of Sciences, Shanghai, P. R. China, Dec 21, 2015. (Invited)
154. Systems Medicine Approaches in Healthcare Delivery and Drug Discovery, Department of Biomedical Engineering, Texas A&M University, April 13, 2016. (Invited)
155. Systems biology approaches for drug combinations and biomarker discovery in cancer. *City of Hope Comprehensive Cancer Center*, May 6, 2016. (Invited)

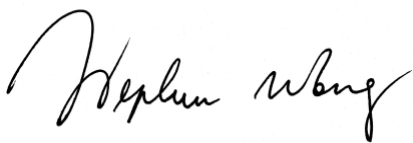
156. METEOR: A Health Informatics Environment For Learning Health System and Evidence-based Medicine, *Inaugural Advanced Health Informatics Conference of Gordon Research Conferences*, July 18, 2016, CUHK, HK SAR, China (Invited)
157. The New Paradigm of Systems Medicine Paradigm in Speeding up Translational Research, IEEE Distinguished Lecture, Nanyang Technological University Lecture, Singapore, Aug 2, 2016. (Invited)
158. Combine High-Content Drug Screening and Big Data Systems Biology Modeling to Make Alzheimer's Disease Cures Faster. Chinese University of Hong Kong, HK, SAR China, Nov 20, 2016. (Invited)
159. Modeling Tumor-stroma Crosstalk in Tumor Microenvironment for Drug Combinations and Biomarker Discovery in Cancer. *International Conference on Intelligent Biology and Medicine (ICIBM) 2016*, Houston, Texas, Dec 9 2016. (Invited)
160. High Content Phenotype & Functional Imaging, High Throughput Platforms Panel Neuroregeneration Symposium, Houston Methodist Research Institute, Houston Methodist Hospital, March 17 2017. (Invited)
161. Cognified Healthcare - How AI and Advanced Machine Learning will Revolutionize Care Delivery. *HealthImpact SouthWest Conference*, April 4, 2017. (Invited)
162. Modeling Tumor-stroma Crosstalk in Lung Cancer to Identify Targets for Therapy. *NIH Cancer Systems Biology Forum*, Bethesda, NIH (Invited)
163. AI in Healthcare Delivery. *Healthcare Providers Transformation Assembly*, Nashville, TN, June 5, 2017. (Invited Lecture)
164. AI for Alzheimer's Drug Discovery. *AAAR Conference*, National VA hospitals, June 16, Boston, 2017 (Invited)
165. Systems Medicine in Drug Discovery for Alzheimer's Disease, *Guangdong Province Annual Aging Conference*, Oct 16 P.R. China, 2017 (Keynote).
166. DrugX™ – A Technology Platform to Speed up The Process of Drug Repurposing and Innovation, *2nd Strategic Partnerships for Drug Repurposing Forum*, Boston, MA, Oct 25 2017. (Invited)
167. AI in Healthcare. *Healthcare Providers Transformation Assembly*, Dallas, TX, Nov 13, 2017. (Invited)
168. Repurposed Cardiac Glycosides to Treat Children with Medulloblastoma, *Cure Accelerators Conference*, Chicago, Nov 15, 2017. (Invited)
169. AI in Healthcare Transformation. HIMSS 2018, Orlando, FL March 6, 2018. (Invited)
170. Applications of deep learning in pathologic image diagnosis and high content screening. *Geometry, Imaging, and Computing workshop*, Harvard University, Cambridge, MA, March 24, 2018. (Invited)
171. Intelligent Infrastructure for Health Transformation. *Pumps and Pipes Symposium*, Austin, TX. April 10, 2019 (Invited).
172. Identification of Biomarkers for Early Cancer Detection in Women at High-risk of Developing Ovarian Cancer Using Emerging EFIRM Liquid Biopsy Technology. *Tina's Wish Foundation*, NY, NY, May 16, 2019 (Invited).

173. A Systems Biology Driven Repositioning Strategy Identifies Digoxin As A Potential Treatment For Groups 3/4 Medulloblastoma. *7th annual conference of Drug repositioning, repurposing, and rescue*, Chicago, IL, June 26, 2018. (Invited)
174. Systems Medicine in Cancer Diagnosis, *Therapeutics and Disease Management*. Department of cardiothoracic surgery, Weill Cornell Medicine, July 9, 2018. (Invited)
175. CARS Thyroid/Parathyroid Imaging. *National Cancer Institute-designated Sidney Kimmel Cancer Center*, Thomas Jefferson University, Philadelphia, PA, July 10, 2018. (Invited)
176. AI in Drug Discovery for Alzheimer's. *Guangdong Province Aging Society Annual conference*, Guangzhou, China, Sept 9, 2018. (Keynote)
177. Modeling, Identification and Targeting Inter-cellular Crosstalk in Tumor Microenvironment. *TAMU Bioinformatics & Cancer Symposium*, College Station, TX, Sept 21, 2018. (Invited)
178. A Systems Biology Driven Drug Repositioning Strategy Identifies Digoxin as a Potential Treatment for Groups 3 & 4 Medulloblastoma, *NCI CSBC-PSOⁿ symposium*, Sept 28, Bethesda, MD, Sept 28, 2018. (Invited)
179. Applied AI for Digital Health Transformation. *French-American Innovation Day at Texas Medical Center*, Houston, TX, March 7 2019. (Invited)
180. SysteMatic Alzheimer's Disease Drug ReposiTioning (SMART) based on Bioinformatics-guided High Content Screening and Image-omics Modeling. *Alzheimer's Disease/Parkinson's Disease (ADPD) 2019 Conference*, Lisbon, Portugal, March 23, 2019. (Invited)
181. Intelligent Infrastructure for Health Transformation. *Pumps and Pipes Oracle Collaborative Consortium Meeting*, Austin, TX April 10, 2019. (Invited)
182. Biomarker Identification for Early Cancer Detection in High Risk Women of Ovarian Cancer using EFIRM Liquid Biopsy (ELB), *Tina's Wish Foundation Annual Scientific Meeting*, New York, NY, May 16, 2019. (Invited)
183. Repurposed Cardiac Glycosides to Treat Children with Medulloblastoma, *Cures with Reach Conference*, Chicago, IL, June 6, 2019 (Invited)
184. Digital therapeutatics for smoking cessation to reduce risk of lung cancer, Houston Methodist Cancer Center Council, July 31, 2019 (Invited).
185. Multi-modal Deep Learning for Precise Breast Cancer Risk Assessment and Acute Ischemic Stroke Detection, *TCC Data Analytics Workshop*, Rice University, Houston, TX, Aug 21, 2019 (Invited).
186. Cancer Convergence, Distinguished Lecture, *Department of Veterinary Physiology and Pharmacology College of Veterinary Medicine & Biomedical Sciences Distinguished Speaker Series*, Texas A&M University, College Station, TX Aug 29, 2019 (Distinguished Lecture).
187. Translational Biophotonics, *Applied Physics Graduate Program Seminar Series*, Rice University, Houston TX Sept 12, 2019 (Invited).
188. Convergence in Biomedical Sciences in the 21st Century, *Biomedical Sciences Distinguished Lecture*, Lehigh University, Bethlehem, PA Oct 4, 2019 (Distinguished Lecture).

189. Systems Biology and AI in Cancer Research and Drug Discovery. *Houston Methodist Cancer Center Annual Retreat*, Nov 1, 2019 (Invited).
190. Convergent AI in Reducing Overdiagnosis, Overtreatment and Misdiagnosis, *Ai4Health Conference*, New York, NY Nov 12, 2019 (Keynote).
191. AI in Drug Discovery, *AI in Medicine (AIMed) Conference*, Laguna Niguel, CA, Dec 11-12, 2019 (Keynote).
192. No Cell is an Island Modeling and Prediction of Altered Neuronal-glia Crosstalk in Alzheimer's Disease, *9th (2020) Nantz National Alzheimer Center Symposium*, Houston, Tx, Feb 21, 2020 (Invited).
193. AI in Medicine: Reduce waste, prevent harm, and improve care, *American College of Acupuncture & Oriental Medicine annual meeting*, Houston, TX, Feb 22, 2020 (Keynote).
194. Convergent AI in Precision Medicine. *Information Technology in Medicine Conference*, June 15-16, 2020, Gliwice, Poland (Keynote).
195. SysteMatic Alzheimer's Disease Drug ReposiTioning (SMART) based on Bioinformatics-guided High Content Screening and Image-omics Modeling. *Alzheimer's Association International Conference*, July 31, 2020.
196. AI in Precision Diagnosis: Cases Studies in Cancer and Stroke - Next Generation of Clinical AI tools. *AI4 2020*, Sept 1, 2020 (Invited).
197. Little Vignettes Illustrate AI Power in Biomedical Research, *CIBR Seminar in Quantitative Biosciences*, Baylor College of Medicine, Houston, TX, Sept 2, 2020 (Invited).
198. Convergent AI in Reducing Overdiagnosis and Misdiagnosis. *MICCAI 2020 NIL3ID Workshop*, Oct 4, 2020 (Keynote).
199. Modeling and Targeting Stroma-tumor Crosstalk in Tumor Microenvironment. *5th Cancer Research & Drug Development Conference-Virtual (Cancer R&D 2020)*, Oct 26-28, 2020 (Invited).
200. Multimedia Artificial Intelligence in Precision Medicine. *Open Data Science Conference (ODSC) West-Virtual* Oct 29, 2020 (Invited).
201. Less Medicine, Better Care with the Help of AI. The University of Texas School of Public Health Seminar, Dec 8, 2020 (Invited).
202. Systematic Modeling and Targeting Cell-Cell Communication, *Houston Methodist Cancer Center Research Seminar Series*, Dec 10, 2020 (Invited).
203. Spatiotemporal Modeling of Cancer-niche Interactions in breast Cancer Bone Metastasis, *NCI Cancer Systems Biology Consortium steering committee meeting*, Jan 13, 2021 (Invited).
204. Deep Learning in Digital Pathology Powers Cancer Diagnosis and Research, *NCI CSBC Image Analysis Working Group*, March 23, 2021 (Invited).
205. Mapping Spatial Cellular Dynamics of Bone Marrow Niches in Metastatic Breast Cancer, *AACR Annual Meeting 2021*, April 10m 2021 (Invited).

206. Modeling and Targeting Cell-Cell Communication in Tumor Microenvironment, *Upstate Cancer Center Distinguished Speaker Series*, SUNY Upstate Medical University, April 12, 2021 (Distinguished Lecture).
207. How Multimedia AI Directly Improves Medical Care, *Ai4 Conference*, May 5, 2021 (Invited)
208. Deep Learning in Digital Pathology Powers Cancer Treatment, Research, and Optical Biopsy, *7th Digital Pathology & AI Congress*, May 26, 2021, USA (Invited)
209. Identification of Biomarkers for Early Detection in Women at High-risk of Developing Ovarian Cancer. *Tina's Wish Virtual Scientific Symposium*, New York, NY, USA, May 26, 2021 (Invited).
210. Orchestrating and Targeting Cell-Cell Communication in Tumor Microenvironment, *Seminar for the Mount Sinai Center for Transformative Disease Modeling*, Mount Sinai Medical Center, NYC, June 17, 2021 (Invited).
211. Convergent AI to improve screening and diagnosis of Breast Cancer. *Shanghai Breast Molecular Diagnosis Conference*, Shanghai, China, June 27, 2021 (Keynote).
212. Modeling and Targeting Cell-Cell Communication in Tumor Microenvironment. *10th International Workshop on Cancer Systems Biology*, Jilin University, Changchun, China, July 31-Aug 1, 2021 (Invited).
213. Systematic Modeling and Targeting Cell-cell Communication in Tumor Microenvironment. *Cancer Science and Targeted Therapy Conference*, Melbourne, VIC, Australia, Sept 6-7, 2021, (Invited).
214. Constructing Real World AI Applications to Improve Clinical Care: Imaging Case Studies in Alzheimer's Drug Discovery, Cancer Screening, and Stroke Detection. *MICCAI DALI 2021: 1st MICCAI Workshop on Data Augmentation, Labeling, and Imperfections*, Strasbourg, France, Oct 1, 2021 (Keynote).
215. Time-Series Recursive Classification for Clinical Decision Making to Improve Outcomes and Resource Allocations of COVID-19 Patients, *IEEE Health Summit*, Oct 4, 2021 (Invited).
216. Integrating Systems Biology and AI for Alzheimer's Drug Repositioning. Cross-Disciplinary Alzheimer's Consensus Research Conference, Baylor College of Medicine-Houston Methodist, Oct 28, 2021 (Invited).
217. Spatioimageomics Approach to Identify Prognostic Biomarkers Associated with Tumor Microenvironment, *6th International Conference on Cancer Research & Drug Development, CRD-2021*, Virtual, Oct 28, 2021 (Invited).
218. Systematic AD Drug Repositioning Based on Bioinformatics-guided Phenotype Screening and Imageomics. *NIA Investigators Virtual Workshop Translational Bioinformatics Approaches to Drug Repurposing and Combination Therapy Development for AD/ADRD*, Nov 2-3, 2021 (Invited).
219. Systems Biologic Modeling and Targeting Cell-Cell Communications in Tumor and Brain Microenvironment. *Seminar series of Laboratory for Cancer Immunometabolism, Center for Cancer Research*, NCI, Nov. 12, 2021 (Invited).
220. Why AI Matters in Biomedicine. Gulf Coast Consortium Artificial Intelligence Workshop, Dec 9, 2021 (Invited).

221. The Possibility of Cognitive Automation in Medicine. IEEE Biomedical and Health Informatics Technical Committee Seminar, Feb 11, 2022 (Invited).

A handwritten signature in black ink that reads "Stephen Wong". The signature is written in a cursive style with a large initial 'S'.

Stephen TC Wong
Feb 18, 2022