



MILICA TOŠIĆ

## CONTACT

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| Born in Zajecar, Serbia  
| Date of birth 11. 6. 1995.  
| Nationality Serbian

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## ACADEMIC DEGREES

**2019** – Ph.D. candidate

**2018 – 2019 M.Sc. in Meteorology**, Institute of Meteorology, Faculty of Physics, University of Belgrade, Serbia. Thesis: *Transformation of fixed threshold to percentile based climate indices and implication on their change in the future*. Advisor prof. Vladimir Djurdjevic.

**2014 – 2018 B.Sc. in Meteorology**, Institute of Meteorology, Faculty of Physics, University of Belgrade, Serbia.

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## WORK EXPERIENCE

2022 – present

**Research Assistant** | Faculty of Physics, University of Belgrade, Serbia

2019 – 2022

**Junior Research Assistant** | Faculty of Physics, University of Belgrade, Serbia

2018 – present

**Graduate Teaching Assistant** | Faculty of Physics, University of Belgrade, Serbia; Undergraduate courses: *Dynamical Meteorology 1, Weather modification, Aviation Meteorology, Applied meteorology, Climatology*.

2018.

volunteer at the conference MedCLIVAR (Mediterranean Climate Variability, <http://www.medclivar.eu/>) in Belgrade.

2018.

volunteer at the conference *Climateurope Festival* in Belgrade (<https://www.climateurope.eu/>)

2015., 2016.

volunteer on Serbian Science Festival ([www.festivalnauke.org](http://www.festivalnauke.org))

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## SCHOLARSHIP/AWARDS

**2018/2019** | Scholarship of the Ministry of Science and Technological Development Republic of Serbia, for outstanding results during master studies.

**2020** | “Prof. Dr. Zavis Janjic” award for outstanding meteorological students in numerical weather prediction at the universities in Serbia from the Zavis Janjic Award fund, governed by the Serbian Academy of Sciences and Art. (<https://professor-dr-zavis-janjic.com/awards/>)

## INTERNATIONAL JOURNALS (SUBMITTED, ACCEPTED, IN PRESS OR PUBLISHED)

1. Baumgertel A., Lukić S., Caković M., Lazić I., Tošić M., Momirović N., Pandey S., Bezdán A., Blagojević B., Djurdjević V., 2024, Spatio-temporal analysis of vegetation response to climate change, case study: Republic of Serbia, *International Journal of Environmental Research*. (in press)
2. Stosic, T., Tošić, M., Lazić, I., da Silva Araújo, L., da Silva, A.S.A., Putniković, S., Djurdjević, V., Tošić, I. and Stosic, B., 2024. Changes in rainfall seasonality in Serbia from 1961 to 2020. *Theoretical and Applied Climatology*, pp.1-16.
3. Živanović, S.V., Gocić, M.J., Lazić, I.D., Tošić, M.L. and Tošić, I.A., 2023. The influence of thermal soil regimes on the forest fires frequencies. *Thermal Science*, (00), pp.277-277., doi: 10.2298/TSCI230610277Z
4. Stosic T., Stosic B., Tošić M., Lazić I., Djurdjević V., Tošić, I., 2023, Climate Change Effects through MFDFA Study of Temperature in Serbia, *Atmosphere*, doi: 10.3390/atmos14101532
5. Tošić, I., Tošić, M., Lazić, I., Aleksandrov, N., Putniković, S. and Djurdjević, V., 2023. Spatio-temporal changes in the mean and extreme temperature indices for Serbia. *International Journal of Climatology*, 43(5), pp.2391-2410. doi: 10.1002/joc.7981
6. Tošić I, Putniković S, Tošić M, Lazić I., 2021 Extreme Temperature Events in Serbia in Relation to Atmospheric Circulation. *Atmosphere*, 12(12):1584. doi: 10.3390/atmos12121584
7. Baumgertel, A., Lukić, S., Caković, M., Miljković, P., Tošić, M., Lazić, I., Djurdjević, V. and Marković, M., 2022. Spatiotemporal analysis of the future sensitivity to wind erosion using ensemble of the regional climate models: a case study. *International Journal of Global Warming*, 27(3), pp.284-299. doi: 10.1504/IJGW.2022.124203
8. Lazić I., Tošić M., Djurdjević V., 2021, Verification of the EURO-CORDEX RCM Historical Run Results over the Pannonian Basin for the Summer Season. *Atmosphere*, 12(6), 714. doi: 10.3390/atmos12060714
9. Sarvan D, Tošić M, Borovinic M, Blesic S, 2021: Classification of time series of temperature variations from climatically homogeneous regions based on long-term persistence. *International Journal of Climatology*. doi: 10.1002/joc.6982
10. Tošić, I., Živanović, S. and Tošić, M., 2020. Influence of extreme climate conditions on the forest fire risk in the Timočka Krajina region (northeastern Serbia). *IDŐJÁRÁS/QUARTERLY JOURNAL OF THE HUNGARIAN METEOROLOGICAL SERVICE*, 124(3), pp.331-347. doi: 10.28974/idojaras.2020.3.2

## INTERNATIONAL CONFERENCES

1. Djurdjevic V, lazic I, Tosic M, 2023, The Digital Climate Atlas of Serbia, International Conference on Hydro-Climate Extremes and Society, 27-29, June 2023, Novi Sad, Serbia.
2. Tosic M, Lazic I, Tosic I, Aleksandrov N, Savic D, Putnikovic S., Djurdjevic V, 2023, Extreme Temperature Indices in Serbia During the Transient Seasons, International Conference on Hydro-Climate Extremes and Society, 27-29, June 2023, Novi Sad, Serbia.
3. Blesic, S., Tosic, M., Aleksandrov, N., Kapwata, T., Maharaj, R., Wright, C., 2023. Understanding and modeling meteorological drivers of the number of hospital admissions for malaria in South Africa (No. EGU23-6327). Copernicus Meetings, 23 – 28. april 2023, Vienna, Austria
4. Tosic M, Aleksandrov N, Djurdjevic V, Lazic I, Savic D, 2022: The evaluation of vulnerability to extreme climate events over Balkan Peninsula using modified Climate Extremes Index, BPU11 Congress The Book of Abstracts, The 11th International Conference of the Balkan Physical Union, pp. 188-189, 28 August – 1 September 2022, Belgrade, Serbia (one of the best poster award)
5. Aleksandrov N, Savic D, Djurdjevic V, lazic I, Tosic M, 2022, Evaluation of low-cost air quality measuring devices – Klimerko BPU11 Congress The Book of Abstracts, The 11th International Conference of the Balkan Physical Union, pp. 188-189, 28 August – 1 September 2022, Belgrade, Serbia

6. Lazic I, Djurdjevic V, Tosic M, Aleksandrov N, Savic D, 2022, Verification of EBU-POM regional climate model using E-OBS and ERA5-Land dataset over Pannonian Basin, BPU11 Congress The Book of Abstracts, The 11th International Conference of the Balkan Physical Union, pp. 188-189, 28. August – 1 September 2022, Belgrade, Serbia
7. Aleksandrov N., Tošić M., Lazić I., Đurđević V., 2022: Model verification over four cities in Serbia using Taylor diagrams, Proceedings of Abstracts 13th International Conference on Air Quality: Science and Application. Published by Aristotle University of Thessaloniki, Greece and University of Hertfordshire, UK, str. 145, 27 June – 1 July, 2022, Thessaloniki, Greece, doi: 10.18745/PB.25560
8. Blesić S., Sarvan D., Tošić M., Borovinić M., 2021: Classification of time series of temperature variations from climatically homogeneous regions using Hurst Space Analysis, EGU General Assembly Conference Abstracts 2021 Apr (No. EGU21-238), EGU General Assembly, 19 – 30 April, 2021, Vienna, Austria (online)
9. Tošić I., Putniković, S., Tošić M., 2020: Seasonal analysis of warm extreme events in Serbia from 1949 to 2017, Geophysical Research Abstracts, EGU2020-516, EGU General Assembly, 4 – 8 May, 2020 (online)
10. Tosic M, Djurdjevic V, 2020, Proposal for transformation of fixed threshold to percentile based climate indices and implications on their changes in the future, Geophysical Research Abstracts, EGU2020-516, 2020, EGU General Assembly, 4 - 8 May, 2020, (online)
11. Tosic, M., Putnikovic, S., Tosic, I., 2019: Extreme temperature events in Serbia from 1949 to 2017, Book of abstracts, "The Life and Work of Milutin Milanković: Past, Present, Future", 19 July 2019, Faculty of Civil Engineering, University of Belgrade, Belgrade, Serbia.
12. Tosic M, Djurdjevic V, 2019, Transformation of fixed threshold to percentile based climate indices and implication on their change in the future, Book of abstracts, 5th PannEx Workshop: Building PannEx Task Teams to address environmental needs in the Pannonian basin, 3 - 5 June 2019, Novi Sad, Serbia.

## PROJECT REPORTS

1. Đurđević V., Vuković Vimić A., Vujadinović Mandić M, Lazić I., Tošić M., 2021, Deliverable 1: Data collected and data base prepared for the country, region and local level, Project: Development of web-based application and platform for Climate Change Vulnerability Assessments and Adaptation (CCA), within the project: Advancing medium and long-term adaptation planning in the Republic of Serbia.
2. Đurđević V., Vuković Vimić A., Vujadinović Mandić M, Lazić I., Tošić M., 2021, Deliverable 2: Essential climate variables and indices - data processing and preliminary results, Project: Development of web-based application and platform for Climate Change Vulnerability Assessments and Adaptation (CCA), within the project: Advancing medium and long-term adaptation planning in the Republic of Serbia.
3. Djurdjevic V., Lazic I., Tosic M., 2020, Recommendations for the software interface between the NWP models and selected hydrological model, Project: Supporting Numerical Weather Prediction (NWP) for SEE-MHEWS-A South-East European Multi-Hazard Early Warning Advisory System.
4. Djurdjevic V., Lazic I., Tosic M., 2020, Technical recommendations for quasi-operational NMM-B model verification scheme in SEE-MHEWS-A countries as a contribution to the overall SEE-MHEWS-A System verification report done by Croatian Meteorological and Hydrological Service (DHMZ), Project: Supporting Numerical Weather Prediction (NWP) for SEE-MHEWS-A South-East European Multi-Hazard Early Warning Advisory System.
5. Djurdjevic V., Lazic I., Tosic M., 2020, Recommendations for NMM-B limited-area modeling system in SEE-MHEWS-A framework, Project: Supporting Numerical Weather Prediction (NWP) for SEE-MHEWS-A South-East European Multi-Hazard Early Warning Advisory System

## PROJECTS

2023 -	EXTREMES - Extreme weather events in Serbia - analysis, modelling and impacts. Funded by the Science Fund of the Republic of Serbia Team member
2023 -	NERO - european Network on Extreme fiRe behaviOr. COST Action CA22164 Team member WG 2 <a href="https://www.cost.eu/actions/CA22164/">https://www.cost.eu/actions/CA22164/</a>
2023 -	CLIMATE PICNIC - Mentoring young researchers to adopt advance knowledge in climate research. Funded by European Climate Foundation Team member
2022 - 2024	AGFORWEB - Agroforestry practices in West Balkan for sustainable development: weaknesses and strengths. ERASMUS + project Team member
2022 - 2025	CLIMOS – Climate Monitoring and Decision Support Framework for Sand Fly-borne Diseases Detection and Mitigation with Cost-benefit and Climate-policy Measures. Horizon Europe project Team member WP 3 <a href="https://climos-project.eu/">https://climos-project.eu/</a>
2022 - 2023	Creating risk map of land degradation (salinization) in the Vojvodina Province by combining climate change scenarios, multi-criteria decision analysis and GIS technology. Research and innovation project for Provincial Secretariat for Agriculture, Water and Forest Management of the Autonomous Province of Vojvodina, Serbia Team member
2021 -	Development of web-based application and platform for Climate Change Vulnerability Assessments and Adaptation (CCA)
2020	Supporting Numerical Weather Prediction (NWP) for SEE-MHEWS-A South-East European MultiHazard Early Warning Advisory System. Funded by World Bank, World Meteorological Organization Team member of the Faculty of Physics <a href="https://public.wmo.int/en/projects/see-mhews-a">https://public.wmo.int/en/projects/see-mhews-a</a>
2019 - 2023	IS-ENES3 - Infrastructure for the European Network for Earth System modelling - Phase 3, H2020 Team member of the Faculty of Physics <a href="https://portal.enes.org">https://portal.enes.org</a>

## WORKSHOPS | SUMMER SCHOOLS

1. Mediterranean Machine Learning school, American College of Thessaloniki (ACT), August 28 – September 2 2023, Thessaloniki, Greece
2. IS-ENES3 Central & Eastern Europe Autumn School, Charles University, November 28 – December 2 2022, Prague, Czech Republic
3. South-East Europe Meteorological training course (SEEMET) *Basic Satellite Meteorology Course*, MATC - MASHAV's International Agricultural Training Center, 14 - 18 november 2022, Shefayim, Israel
4. IS-ENES3 Summer School on Data Science for Climate Modelling, National Centre for Scientific Research Demokritos, August 31 – September 7 2022, Athens, Greece
5. Detection of extreme temperature and precipitation indices, IS-ENES3 Eastern Europe Spring Schools on Climate Data and Impact Assessments, Babeş-Bolyai University, Faculty of Geography, 17 – 20 may 2022, Cluj - Napoca, Romania
6. Climate and climate extremes for employees in hydrometeorological institutes from Montenegro and Serbia, proejct *Let's Be Prepared*, 23 – 24 december 2021, online

## SKILLS

Programming: Fortran, shell (bash), python

Graphics: GrADS, ncview, xmgrace, python libraries, Origin

Data: wgrib, wgrib2, cdo, python libraries

Workflow package: ecflow

High performance computing (HPC) and numerical modeling

Git

## LANGUAGES

Serbian: Native.

English: Fluent.

French: Basic