Uroš Durlević, PhD
Research Assistant

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Research Interests: natural hazards, geographic information systems, environmental protection

Education

- November 2020 – November 2025: Doctoral Academic Studies
  University of Belgrade, Faculty of Geography, Geosciences
  GPA: 10.00
  PhD Dissertation Topic: "Natural Conditions as Determinants of the Geospatial Distribution of Snow Avalanches: The Case of the Šar Mountains (Serbia)."

- October 2019 – July 2020: Master Academic Studies
  University of Belgrade, Faculty of Geography, Geospatial Environmental Studies
  GPA: 10.00
  Master's Thesis Topic: "Analysis of the Susceptibility of the Municipality of Štrpce to Natural Hazards."

- October 2015 – July 2019: Bachelor Academic Studies
  University of Belgrade, Faculty of Geography, Geospatial Environmental Studies
  GPA: 9.40
  Bachelor's Thesis Topic: "Analysis of Natural Conditions, Noise Levels, Ionizing and Electromagnetic Radiation in the Municipality of Štrpce."

Work Experience

- December 2025 – Present: Research Assistant
  Geographical Institute "Jovan Cvijić" SASA

- December 2023 – December 2025: Research Assistant
  University of Belgrade, Faculty of Geography

- March 2021 – December 2023: Junior Research Assistant
  University of Belgrade, Faculty of Geography

- July 2019 – March 2021: Project Associate
  Center of the Russian Geographical Society in Serbia

Project Participation

- 2024 – 2025. Application of Geographic Information Systems for Identifying Locations Suitable for the Use of Biofertilizers
  Applicant: Faculty of Geography, University of Belgrade
  Position: Environmental GIS Analyst
- 2021. 111 Questions and Answers About Solar Energy
  Applicant: Center for the Development of Non-Formal Education of Citizens (CRNOG)
  Position: Environmental GIS Analyst
- 2019. Forests and Climate
  Applicant: Center for the Development of Non-Formal Education of Citizens (CRNOG)

Awards and Recognitions

- 2021. Best Master's Thesis in the Study Program "Geospatial Environmental Studies," Faculty of Geography – University of Belgrade
- 2020. Best Bachelor's Thesis in the Study Program "Geospatial Environmental Studies," Faculty of Geography – University of Belgrade
- 2019. Best Project in the Youth Innovators Category at the World Summit Award (WSA)
  Project position: GIS Analyst
- Winner of the Open Data Challenge in the Field of Environmental Protection
  Organized by UNDP and the Office for Information Technologies and Electronic Administration

Publications

- Durlević, U., Čegar, N., Ilić, V., Kovjanić, A. (2025). Machine Learning and Deep Learning Approaches for Wildfire Susceptibility Prediction: A Case Study of the Djerdap Geopark, Serbia. *Earth Systems and Environment*.
- Durlević, U., Ilić, V., Valjarević, A. (2025). Wildfire Susceptibility Mapping Using Deep Learning and Machine Learning Models Based on Multi-Sensor Satellite Data Fusion: A Case Study of Serbia. *Fire*, 8 (10), 407.
- Durlević, U., Srejić, T., Valjarević, A., Aleksova, B., Đanski, V., Vujović, F., Lukić, T. (2025). GIS-Based Spatial Modeling of Soil Erosion and Wildfire Susceptibility Using VIIRS and Sentinel-2 Data: A Case Study of Šar Mountains National Park, Serbia. *Forests*, 16 (3), 484.
- Durlević, U., Tadić, P., Hussain, A.M. (2025). Snow Avalanche Susceptibility Mapping Using Deep Learning, Machine Learning, and Fuzzy Logic: A Case Study of the Šar Mountains, Serbia. *Earth Systems and Environment*.

- Durlević, U., Čegar, N., Vujović, F. (2025). *Geospatial modeling of suitable sites for solar power plants based on GIS and BWM: A case study of the city of Kraljevo, Serbia*. In: Rezaei, J., Brunelli, M., Mohammadi, M. (eds). Advances in Best-Worst Method. BWM 2024. Lecture Notes in Operations Research, 129-142. Springer, Cham.

- Durlević, U., Valjarević, A., Novković, I., Vujović, F., Josifov, N., Krušić, J., Komac, B., Đekić, T., Singh, S.K., Jović, G., Radojković, M., Ivanović, M. (2024). Universal Snow Avalanche Modeling Index Based on SAFI–Flow-R Approach in Poorly-Gauged Regions. *ISPRS International Journal of Geo-Information*, 13 (9), 315.

- Durlević, U., Novković, I., Carević, I., Valjarević, D., Marjanović, A., Batoćanin, N., Krstić, F., Stojanović, L., Valjarević, A. (2023). Sanitary landfill site selection using GIS-based on fuzzy logic and multi-criteria evaluation technique: A case study of the City of Kraljevo, Serbia. *Environmental Science and Pollution Research*, 30, 37961-37980.

- Malinić, V., Durlević, U., Brašanac-Bosanac, L., Novković, I., Joksimović, M., Golić, R., & Krstić, F. (2025). A Hybrid Fuzzy AHP–MULTIMOORA Approach for Solar Energy Development on Rural Brownfield Sites in Serbia. *Sustainability*, 17 (17), 7988.

- Đeđanski, V., Durlević, U., Kovjanić, A., Lukić, T. (2024). GIS-Based Spatial Modeling of Landslide Susceptibility Using BWM-LSI: A Case Study – City of Smederevo (Serbia). *Open Geosciences*, 16 (1), 20220688.

- Durlević, U., Novković, I., Bajić, S., Milinčić, M., Valjarević, A., Čegar, N., Lukić, T. (2023). *Snow Avalanche Hazard Prediction Using the Best-Worst Method—Case Study: The Šar Mountains, Serbia*. In: Rezaei, J., Brunelli, M., Mohammadi, M. (eds). Advances in Best-Worst Method. BWM 2023. Lecture Notes in Operations Research, 211-216. Springer, Cham.

- Durlević, U., Čegar, N., Dobrić, M., Vukašinović, S., Lukić, T., Stevanović, V., Radovanović, D., Valjarević, A. (2023). The Heritage Climate Index (HERCI): Development, Assessment and Application for Tourism Purposes in Geoheritage and Cultural Heritage Sites. *Atmosphere*, 14 (8), 1265.

- Durlević, U., Valjarević, A., Novković, I., Ćurčić, N.B., Smiljić, M., Morar, C., Stoica, A., Barišić, D., Lukić, T. (2022). GIS-Based Spatial Modeling of Snow Avalanches Using Analytic Hierarchy Process. A Case Study of the Šar Mountains, Serbia. *Atmosphere*, 13 (8), 1229.

- Durlević, U., Novković, I., Lukić, T., Valjarević, A., Samardžić, I., Krstić, F., Batoćanin, N., Mijatov, M., Ćurić, V. (2021). Multihazard susceptibility assessment: A case study – Municipality of Štrpce (Southern Serbia). *Open Geosciences*, 13 (1), 1414-1431.