

Dr. Dejana Jakovljević

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Broad area of Specialization

Geography, Physical Geography

Research Expertise

Hydrology, Environmental science (water protection)

Education

- Doctoral study: Faculty of Geography, University of Belgrade, PhD Topic ("*Geo-ecological determinants of running waters protection and revitalization for sustainable development of the Autonomous Province of Vojvodina*"), October 2015 (Doctor of Geography)
- Master study: Association of Centers for Interdisciplinary and Multidisciplinary Studies and Research, University of Novi Sad, M.Sc. Topic ("*Characteristics and potential of hydro – engineering system Danube – Tisa – Danube in Backa*"), April 2008 (Master of Science in Interdisciplinary Field Engineering for Environmental Protection)
- Graduate study: Faculty of Sciences, Department for Geography, Tourism and Hotel Management, University of Novi Sad, October 2004 (Geography teacher).

Employment

- Geographical Institute "Jovan Cvijić", SASA, Belgrade, from November 2011

Chapters in monographs

1. **Jakovljević, D.**, & Milanović Pešić, A. (2025). An introduction to stream rehabilitation planning. In: S. Eslamian & F. Eslamian (Eds.) *Hydrosystem Restoration Handbook: Streamflow Recharge (SFR) and Lake Rehabilitation (LR)* (pp. 3–16). <https://doi.org/10.1016/B978-0-443-29802-8.00001-7>
2. **Jakovljević, D.**, Milanović Pešić, A., & Miljanović, D. (2022). Human Impacts on Water Resources in the Lower Danube River Basin in Serbia. In: A. Negm, L. Zaharia, G. Ioana-Toroimac, (Eds.) *The Lower Danube River: Hydro-environmental Issues and Sustainability* (pp. 195–251). Earth and Environmental Sciences Library. Springer, Cham. https://doi.org/10.1007/978-3-031-03865-5_7
3. **Jakovljević, D.**, Milanović Pešić A., & Milijašević Joksimović, D. (2021). Protection from harmful effects of water — examples from Serbia. In P. Samui, H. Bonakdari & R. Deo (Eds.), *Water Engineering Modeling and Mathematic Tools* (pp. 157–175). Amsterdam, Netherlands; Oxford, UK, & Cambridge, MA, USA: Elsevier.
4. Milanović Pešić A, **Jakovljević, D.**, & Milijašević Joksimović, D. (2020). Water Resources Management in Serbia. In A. Milanović Pešić & D. Jakovljević (Eds.) *Water Resources Management: Methods, Applications and Challenges* (pp. 231–299). New York, NY: Nova Science Publishers, Inc.
5. Urošev, M., Kovačević-Majkić, J., Štrbac, D., Milanović Pešić, A., Milijašević, D., Jakovljević, D., Petrović A. (2017). Water of Serbia (Vode Srbije) In M. Radovanović

(Ed.), *Geography of Serbia (Geografija Srbije)* (160–235), Special Editions, 91. Belgrade: Geographical Institute "Jovan Cvijić" SASA (in Serbian)

Published articles in Journals

1. Milijašević Joksimović, D., **Jakovljević, D.**, & Jojić Glavonjić, T. (2025). Evaluation of Water Quality in the Tamiš River in Serbia Using the Water Pollution Index: Key Pollutants and Their Sources. *Water*, 17(7), 1024. <https://doi.org/10.3390/w17071024>
2. Milijašević Joksimović, D., **Jakovljević, D.**, & Doljak, D. (2025). Assessment of Multi-Depth Water Quality Dynamics in an Artificial Lake: A Case Study of the Ribnica Reservoir in Serbia. *Applied Sciences*, 15(13), 7425. <https://doi.org/10.3390/app15137425>
3. **Jakovljević, D.**, Milijašević Joksimović, D., & Petrović, A. M. (2025). Assessment of Lake Water Quality in Central Serbia—Using Serbian and Canadian Water Quality Indices on the Example of the Garaši Reservoir. *Sustainability*, 17(9), 4074.
4. Milanović Pešić, A., **Jakovljević, D.**, Rajčević, V., & Gnjata, S. (2025). Assessment of hydroclimatic trends in Southeast Europe — Examples from two adjacent countries (Bosnia & Herzegovina and Serbia). *Időjárás*, 129(1), 69–87. <https://doi.org/10.28974/idojaras.2025.1.5>
5. Milanović Pešić, A., **Jakovljević, D.**, Čulafić, G., & Milivojević, M. (2024). Water regime variability of selected rivers on the Balkan peninsula: a comparative study of central Serbia and northern region of Montenegro. *Geography, Environment, Sustainability*, 17(4), 35–43. <https://doi.org/10.24057/2071-9388-2024-3404>
6. Milanović Pešić, A., Jojić Glavonjić, T., Denda, S., **Jakovljević, D.** (2023). Sustainable Tourism Development and Ramsar Sites in Serbia: Exploring Residents' Attitudes and Water Quality Assessment in the Vlasina Protected Area. *Sustainability*, 15(21), 15391. <https://doi.org/10.3390/su152115391>
7. **Jakovljević, D.** (2021). The Geography of Serbia — Nature, People, Economy. *Journal of the Geographical Institute "Jovan Cvijić" SASA*, 71(3), 333–340. <https://doi.org/10.2298/IJGI2103333J>
8. **Jakovljević, D.** (2020). Assessment of water quality during the floods in May, 2014, Serbia. *Journal of the Geographical Institute "Jovan Cvijić" SASA*, 70(3), 215–226. <https://doi.org/10.2298/IJGI2003215J>
9. **Jakovljević, D.**, Milanović Pešić, A., Milijašević Joksimović, D. (2019). Water Resources Management Issues in the Danube River Basin District — Examples from Serbia, *Water Resources*, 46(2), 286–295, <https://doi.org/10.1134/S0097807819020039>
10. Radovanović, M. M, Vyklyk, Y., Stevančević, M. T., Milenković, M. Đ., **Jakovljević, D. M.**, Petrović, M. D., Malinović-Milićević, S. B., Vuković, N., Vujko, A. Đ., Yamashkin, A., Sydor, P., Vuković, D. B., Škoda, M. (2019). Forest fires in Portugal – Case study, 18 June, 2017, *Thermal Science*, 23(1), 73–86, <https://doi.org/10.2298/TSCI180803251R>
11. Vyklyk, Y., Radovanović, M., Stanojević, G., Milovanović, B., Leko, T., Milenković, M., Petrović, M., Yamashkin A. A., Milanović Pešić, A., **Jakovljević, D.**, Malinović Milićević, S. (2018). Hurricane genesis modelling based on the relationship between solar activity and hurricanes II, *Journal of Atmospheric and Solar-Terrestrial Physics*, 180, 159–164. <http://dx.doi.org/10.1016/j.jastp.2017.09.008>

12. Verbitskaya, N., Vuković, D., Mehrentsev, A., **Jakovljević, D.**, Vujko, A. (2018) Cube Online Analytical Model (COLAM) in the river shipping logistic forecasting. *Journal of the Geographical Institute "Jovan Cvijić" SASA*, 68(2), 297–304. <https://doi.org/10.2298/IJGI1802297V>
13. Vyklyk, Y., Radovanović, M., Milovanović, B., Leko, T., Milenković, M., Milošević, Z., Milanović Pešić, A., **Jakovljević, D.** (2017). Hurricane genesis modelling based on the relationship between solar activity and hurricanes, *Natural Hazards*, 85, 1043–1062. <https://doi.org/10.1007/s11069-016-2620-6>
14. Pavić, D., **Jakovljević, D.**, Krajić, A. (2016). Local Reactions Concerning Serbia's Obedska Bara Nature Reserve, *Polish Journal of Environmental studies*, 25(1), 273–282, DOI: 10.15244/pjoes/60501. <https://doi.org/10.15244/pjoes/60501>
15. Walker, D., **Jakovljević, D.**, Savić, D., Radovanović, M. (2015). Multi-criterion water quality analysis of the Danube River in Serbia: A visualisation approach. *Water Research*, 79, 158 – 172. <http://dx.doi.org/10.1016/j.watres.2015.03.020>
16. **Jakovljević, D.**, Lozanov-Crvenković, Z. (2015). Water quality changes after Kraljevo earthquake in 2010. *Natural Hazards* 79(3), 2033–2053. <https://doi.org/10.1007/s11069-015-1943-z>
17. Radovanović, M. M., Vyklyuk, Y., Malinović-Milićević, S. B., **Jakovljević, D. M.**, Pecelj, M. R. (2015). Modelling of forest fires time evolution in the USA on the basis of long term variations and dynamics of the temperature of the solar wind protons, *Thermal Science*, 19(2), S437-S444. <https://doi.org/10.2298/TSCI141103150R>
18. **Jakovljević, D.** (2012). Serbian and Canadian Water Quality Index of Danube River in Serbia in 2010. *Journal of the Geographical Institute "Jovan Cvijić" SASA*, 62(3), 1–18. <https://doi.org/10.2298/IJGI1203001J>
19. **Jakovljević, D.** (2009). Water protection and using in Vojvodina. *Acta Facultatis Ecologiae*, 21, 35–39 https://fee.tuzvo.sk/sites/default/files/afe_21-2009.pdf

Published articles and abstracts in International Conferences

1. **Jakovljević, D.**, Brankov, J., Milanović Pešić, A. (2025). *Water quality as a prerequisite for sustainable water tourism development in National Parks in Serbia*. EURO GEO 2025 International Conference "Humanising Geography: People, Place and Space in a Global Word" 16–18 May, 2025. Skopje, North Macedonia
2. Milanović Pešić, A., Milivojević, M., **Jakovljević, D.** (2023). Discharge variability of the rivers in the Šumadija Region (Serbia). "International conference on transboundary catchment erosion and pollution problems". July 19–24, 2023, Belgrade, Serbia, p.29. <http://www.gi.sanu.ac.rs/index.php/sr-rs/aktivnosti/konferencije-organizacija/1180-dun-r-dn-nf-r-nci-v-dni-pr-bl-i-pr-gr-nicnih-r-cnih-sliv-v>
3. Milanović Pešić, A., **Jakovljević, D.**, Rajčević, V., Gnjata, S. (2023). Extreme Discharges Trends in the Rivers of the Balkan Region – Examples from Two Adjacent Countries (Bosnia & Herzegovina and Serbia). "International Conference on Hydro-Climatic Extremes and Society". June 27–29, 2023, Novi Sad, Serbia
4. **Jakovljević, D.** (2019). Water pollution and possible solutions in AP Vojvodina (Serbia). Proceedings of International Scientific Symposium "New Trends in Geography" 70 years of Macedonian Geographical Society, 3–4 October, 2019, Ohrid, North Macedonia, pp. 111–121.

5. **Jakovljević, D.** (2018). Water quality issues — Examples from Serbia. Book of Abstracts of The International Scientific Conference "Smart Geography" 100 years Bulgarian Geographical Society, 2–4 November, 2018, Sofia, Bulgaria, pp. 29–33.
6. Milanović Pešić, A., **Jakovljević, D.**, Radovanović, M. (2017). Water supply issues in Serbia. Materials from the International Scientific-Practical Conference Water Resources, Hydraulic Facilities and Environment, dedicated to the 100th Anniversary of Shollar-Baku Water Plants, 15–16 March 2017, Baku, Azerbaijan, pp. 450–454. <http://www.sukanal.az/wp-content/uploads/2017/04/Shollar-100-1.pdf>
7. **Jakovljević, D.**, Radovanović, M., Savić, D., Walker, D. (2016). Transboundary eco-hydrological issues in the Danube River Basin District — Case study from Serbia. Proceedings of the Baikal international ecological forum "Clean Planet", October 2-3, 2015, Irkutsk (Russia), pp. 19-26. <http://www.irigs.irk.ru/download/CleanPlanet.pdf#page=19>
8. **Jakovljević, D.** (2014). Surface and groundwater protection. Report of the first International V4 Alumni Achievement Conference under the umbrella of the Hungarian Presidency of the Visegrad Group, November 29, 2013. Budapest, pp. 50–51.
9. Krajić, A., **Jakovljević, D.**, Lozovanu, D. (2012). Climate Characteristics of Special Nature Reserve "Obedska Bara" (Serbia). Lucrările Seminarului "Dimitrie Cantemir", 33, pp. 5–18. <http://www.seminarcantemir.uaic.ro/index.php/cantemir/article/view/854/834>
10. **Jakovljević, D.** (2008). Protected areas in the Danube River Basin District in Serbia. International Conference "Protected areas in function of sustainable development", 6–8 November 2008, Bihać, Bosnia and Herzegovina, Proceedings, pp. 89–109 (in Serbian).
11. **Jakovljević, D.** (2008). Significant pressures in the Danube River Basin District in Serbia. Second congress of geographers of Bosnia and Herzegovina, 8–11 October 2008, Neum, Bosnia and Herzegovina, Proceedings, pp. 543–552 (in Serbian).
12. **Jakovljević, D.** (2008). Water quality of Hydro-engineering system Danube–Tisa–Danube. 11th International Conference ICDQM "Dependability and Quality management", 18–19 June 2008, Belgrade, Serbia, Proceedings, pp. 328–335 (in Serbian).

List of Projects

1. 2011–2016. The Geography of Serbia (47007 — *The Ministry of Sciences and Technological Development, Republic of Serbia*)
2. 2008–2010. The Geo-systemic Basis of the Spatial-Functional Organization of the Republic of Serbia (146010 — *The Ministry of Sciences and Technological Development Republic of Serbia*)
3. 2007–2008. Production and building by use of low energy natural building materials (283006 — *The Ministry of Sciences and Technological Development Republic of Serbia*)
4. 2005–2007. Geographic information system of water resources management in Serbia (410038 — *The Ministry of Sciences and Technological Development Republic of Serbia*)

Reviewer

Journals

Agriculture, Applied Sciences, Atmosphere, Hydrology, Water, Sustainability, Water Quality Research Journal, Environmental Monitoring and Assessment, Journal of the Geographical Institute "Jovan Cvijić" SASA, Thermal Sciences, Wetlands, European Journal of Geography, Scientific Research and Essays, Journal of Environmental Research and Management, Earth Science Research, Bulletin of the Serbian Geographical Society, Bulletin of Natural Sciences Research

Chapter in monograph

The Lower Danube River. Hydro-environmental Issues and Sustainability, Springer

Monograph

Torrential Floods in Serbia (Bujične poplave u Srbiji), Serbian Geographical Society, Belgrade (in Serbian)

Editor

1. **Jakovljević, D.**, Djordjevic, S. & Milovanović, B. (2023–2024). Land. Special Issue "Land, Geosciences Research and Application". https://www.mdpi.com/journal/land/special_issues/Z8S1G5CGGJ
2. Milanović Pešić A, **Jakovljević, D.** (Eds.) (2020). *Water Resources Management: Methods, Applications and Challenges*. New York, NY: Nova Science Publishers, Inc. <https://novapublishers.com/shop/water-resources-management-methods-applications-and-challenges/>
3. Technical Editor, Journal of the Geographical Institute "Jovan Cvijić" SASA, 2015–2017

Scholarships

Postdoctoral Research Fellowship at the Russian Institute for Advanced Studies (RIAS), Moscow State Pedagogical University, 2018

Scholarship from International Visegrad Fund, Technical University in Zvolen, Faculty of Ecology and Environmental Sciences, 2009–2010.

Miscellaneous

Participation in conference *Water, Air, Energy (Voda, Vazduh, Energija)*, Panel *Water (Voda)* in organization of the *National Geographic Srbija*, Museum of Science and Technology, Belgrade, 3rd December, 2021 (in Serbian) <https://www.youtube.com/watch?v=NAV-xgUH6zI>

Lecturer at the cycle of lectures *Smart cities and sustainable healthy settlements — Technologies and risks*, in organization of the Museum of Science and Technology, with the theme: *The water crisis — Challenge for the world and Serbia*, Belgrade, 30th November 2015 (in Serbian).