

BIOGRAPHY



Dr. Ana M. Petrović (born Borisavljević)
Research Associate, Geographical Institute „Jovan Cvijić“ SASA
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Broad area of Specialization: physical geography, natural hazards, environment protection
Research Expertise: hydrology of torrents, torrential floods, soil erosion

Education

- PhD Studies: University of Belgrade – Faculty of Forestry (average grade: 10.00). PhD thesis: *Factors of torrential flood genesis in Serbia, 207p.*
- MSc Studies: University of Belgrade – Faculty of Geography (average grade: 9.75). Master thesis: *State and issues in hazardous waste management, 71p.*
- BSc Studies: University of Belgrade – Faculty of Geography (average grade: 9.55). Bachelor thesis: *Active learning in geography teaching, 46p.*

Employment

- since 2013 at the Geographical Institute “Jovan Cvijić” of the Serbian Academy of Sciences and Arts
- 2011–2013 at the University of Belgrade – Faculty of Forestry

Projects

- 2015–2017: *International bilateral project with the Institute of Geographic Sciences and Natural Resources Research “Comparative Study on Sino-Serbian Natural Disasters Research and Risk Management”* (Ministry of Education, Science and Technological Development of the Republic of Serbia, Ministry of Science and Technology of the People’s Republic of China, 3-16), project manager;
- 2013–2019: *Geography of Serbia* (Ministry of Education, Science and Technological Development of the Republic of Serbia, 47007);
- 2011–2013: *The Research on Climate Change Influences on Environment: Influence Monitoring, Adaptation and Mitigation, Subproject No. 9: Torrential Floods Frequency, Soil and Water Degradation as the Consequence of Global Changes* (Ministry of Education, Science and Technological Development of the Republic of Serbia, 43007);
- 2011–2012: *International bilateral project with the Institute for Soil and Water Conservation of the Chinese Academy of Science „Integrated Impacts Assessment of Soil and Water Conservation at Regional Scale”*, member of delegation of a study visit in March 2012, Yangling (Ministry of Education, Science and Technological Development of the Republic of Serbia, Ministry of Science and Technology of the People’s Republic of China);

- 2009: *Protection of Water Quality in Water Reservoirs by Erosion Control in Watersheds* (Ministry of Education, Science and Technological Development of the Republic of Serbia, 22003).

Member of Organizing and Scientific Committees and Editorial Boards

- Organizing and Scientific Committee of the 9th International Scientific Conference Geobalcanica, organized by the Geobalcanica Society, 8–9 May 2023, Skopje, North Macedonia;
- Organizing and Scientific Committee of the 8th International Scientific Conference Geobalcanica, organized by the Geobalcanica Society, 9–10 May 2022, Belgrade, Serbia;
- Youth Editorial Board of the *Natural Hazards Research* (publisher: Elsevier) since October 2022;
- Editorial Board of the *Academic Platform Journal of Natural Hazards and Disaster Management* (APJHAD) since August 2021;
- Editorial Board of the *International Journal of Disaster Risk Management* (IJDRM) since 2019;
- Scientific Council of the Geographical institute "Jovan Cvijić" SASA since November 2014;
- Editorial board of the *Journal of the Geographical institute "Jovan Cvijić" SASA* (November 2014 – March 2017);
- Organization Committee of the International Scientific Conference "Jovan Cvijić – 150th Birth Anniversary", organized by Serbian Academy of Sciences and Arts, Geographical Institute "Jovan Cvijić" of the SASA and Belgrade City Museum, 12–14 October 2015, Belgrade, Serbia;
- Organization Committee of the International Scientific Conference LANDCON 1209, organized by the Faculty of Forestry of the University of Belgrade, 17–21 September 2012, Donji Milanovac, Serbia;
- Selection Committee for new scholarship holders (Master graduates and PhD students) of the German Federal Environment Foundation (Deutsche Bundesstiftung Umwelt – DBU) from the Balkan countries; Coordinator of DBU Scholarship Programme and DBU Alumni Network in Serbia since 2012;
- Reviewer of several international scientific journal published by Springer and MDPI.

Honors and Awards

- Award of the World Association of Soil and Water Conservation for *the Outstanding Youth Paper* under title „Torrential Floods as Natural Hazards in Šumadija Region, Serbia“, Nanchang, China, 2015;
- Award of the Eurobank Programme "Invest in European values" for the best students in Serbia, Belgrade, 2006;
- Acknowledgement letter of the Serbian Geographical Society for authorship and contribution to realization of the competitions in geography for primary school students, Belgrade, 2017.

Invited lecturer

- 6th *International Symposium on Natural Hazards and Disaster Management* (ISHAD, Bursa, Turkey), October 2022;
- Ss. Cyril and Methodius University, Faculty of Natural Sciences and Mathematics, Skopje, North Macedonia, November 2021;
- 5th *International Symposium on Natural Hazards and Disaster Management* (ISHAD, online, Turkey), November 2021;
- 7th *International Scientific Conference Geobalcanica 2021*, Ohrid, North Macedonia, June 2021;
- 1st *World Conference on Soil and Water Conservation under Global Change* (CONSOWA), Lleida, Spain, June 2017;
- Annual meeting of the Serbian Geographical Society, Belgrade, Serbia, February 2017;

- University of Belgrade – Faculty of Forestry, Belgrade, Serbia, March 2017;
- *Education Fair* of the Regional supporting team for science, education and art (NOU Team), Čuprija, Serbia, March 2015;
- International conference *Young Generation of the Danube Area as a Key to the European Integration* (YCDN), Budapest, Hungary, June 2011;
- International summer school *Energy efficiency and renewable energy resources in the South Eastern Europe* (REIC), Fojnica, BIH, May 2010.

PUBLICATIONS

Book

- *Petrović, A. M. (2021). Bujične poplave u Srbiji. [Torrential floods in Serbia].* Belgrade: Serbian Geographical Society, Special issues, 73, 155p. [Bujicne poplave u Srbiji – Torrential floods in Serbia](#)

Chapters in International and National Books

- *Petrović, A. M. (2020). Challenges of Reliable Power Supply with Emphasis on Renewables.* In W. Leal Filho, A. Azul, L. Brandli, A. Lange Salvia & T. Wall (Eds.), *Affordable and Clean Energy*. Cham: Springer. https://link.springer.com/referenceworkentry/10.1007%2F978-3-319-71057-0_95-1
- *Petrović, A. M. (2020). Renewable and Nonrenewable Energy Potential.* In W. Leal Filho, A. Azul, L. Brandli, A. Lange Salvia & T. Wall (Eds.), *Affordable and Clean Energy*. Cham: Springer. https://link.springer.com/referenceworkentry/10.1007%2F978-3-319-71057-0_116-1
- Blinkov, I., Kostadinov, S., Minčev, I., *Petrović, A. (2019). Soil Erosion and Torrent Control in Western Balkan Countries (Chapter 28).* In L. Rui, T. L. Napier, S. El-Swaify, M. Sabir & E. Rienzi (Eds.), *Degradation of Soil and Water Resources* (pp. 510–536). Beijing: Science Press, Springer. ISBN 978-7-03-062787-2
- Kostadinov, S., Košanin, O., *Petrović, A. (2017). Extreme Climate Events and Erosion Control in Headwaters Catchments of Serbia.* In J. Kreček, M. Haigh, T. Hofer, E. Kubin & C. Promper (Eds.), *Ecosystem Services of Headwater Catchments* (217–224). New Delhi: Springer Cham. https://link.springer.com/chapter/10.1007/978-3-319-57946-7_19
- Kostadinov, S., *Borisavljević, A., Mlađan, D. (2014). Torrents and Torrential Floods in Serbia: Characteristics and Possibilities of its Control.* In M. Zlatić (Ed.), *Advances in GeoEcology*, 43 (pp. 156–172). Catena Verlag, ISBN: 978-3-923381-61-6.
- Dragičević, S., Ristić, R., Živković, N., Kostadinov, S., Tošić, R., Novković, I., *Borisavljević, A., Radić, Z. (2013). Floods in Serbia in 2010 - Case Study: The Kolubara and Pcinja River Basins.* In D. Loczy (Ed.), *Geomorphological Impacts of Extreme Weather: Case Studies from Central and Eastern Europe* (pp. 155–170). Dordrecht: Springer Geography. <http://www.springer.com/earth+sciences+and+geography/geology/book/978-94-007-6300-5>
- Ristović, I., *Borisavljević, A. (2010). New Technology for Prevention of Eolian Erosion of Ash at the Ash Disposals in Power Plant Nikola Tesla in Serbia.* In M. Zlatić (Ed.), *Advances in GeoEcology*, 41 (pp. 278–285). Catena Verlag, ISBN: 978-3-923381-57-9.
- Urošev, M., Kovačević-Majkić, J., Štrbac, D., Milanović Pešić, A., Milijašević D., Jakovljević, D., *Petrović, A. (2017) Vode Srbije [Waters in Serbia].* In M. Radovanović (ed.), *Geografija Srbije [Geography of Serbia]* (pp. 160–235), Special issue, no. 91. Belgrade: Geographical institute "Jovan Cvijić" SASA. ISBN 978-86-80029-70-2

Articles in International Scientific Journals (WoS)

- Petrović, A. M., Novković, I., Kostadinov, S. (2021). Hydrological Analysis of the September 2014 Torrential Floods of the Danube Tributaries in the Eastern Serbia. *Natural Hazards* 108, 1373–1387 <https://link.springer.com/article/10.1007/s11069-021-04737-2>
- Kostadinov, S., Dragičević, S., Stefanović, T., Novković, I., Petrović, A. M. (2017). Torrential Flood Prevention in the Kolubara River Basin. *Journal of Mountain Science*, 14(11), 2230–2245. <https://link.springer.com/article/10.1007/s11629-017-4575-9>
- Petrović, A. M., Kovačević-Majkić, J., & Milošević, M. V. (2016). Application of Run-off Model as a Contribution to the Torrential Flood Risk Management in Topčiderska Reka Watershed, Serbia. *Natural Hazards*, 82(3), 1743–1753. <http://link.springer.com/article/10.1007%2Fs11069-016-2269-1>
- Petrović, A. M., Ristić, R. (2015). Spatiotemporal Review of the Torrential Flood Phenomenon in the Morava River Basin. *SPATIUM*, 34, 64–69. http://www.iaus.ac.rs/upload/download/spatium/Spatium%2034_.pdf
- Petrović, A. M., Dragičević, D. S., Radić, B. P., Milanović Pešić, A. Z. (2015). Historical Torrential Flood Events in the Kolubara River Basin. *Natural Hazards*, 79(1), 537–547. <http://link.springer.com/article/10.1007%2Fs11069-015-1860-1>
- Petrović, A., Kostadinov, S., Dragičević, S. (2014). The Inventory and Characterization of Torrential Flood Phenomenon in Serbia. *Polish Journal of Environmental Studies*, 23(3), 823–830. <http://www.pjoes.com/The-Inventory-and-Characterization-of-Torrential-r-nFlood-Phenomenon-in-Serbia,89253,0,2.html>
- Kostadinov, S., Zlatić, M., Dragičević, S., Novković, I., Košanin, O., Borisavljević, A., Lakićević, M., Mlađan, D. (2014). Anthropogenic Influence on Erosion Intensity Changes in Rasina River Watershed Area Upstream from “Čelije” Water Reservoir – Central Serbia. *Fresenius Environmental Bulletin*, 23(1), 254–263. http://www.psp-parlar.de/details_feb_afs.asp?typ=feb&datum=01.01.2014&jahr=2014

Articles in National Journals

- Dragičević, S., Živković, N., Novković, I., Petrović, A., Tošić, R., Milevski, I. (2016). Hydrological and Suspended Sediment Regime in the Kolubara River During the Extreme Year of 2014. *Revista De Geomorfologie*, 18, 30–42. http://www.revistadegeomorfologie.ro/revista/Rev_geomorfologie_18.pdf
- Petrović, A. M. (2015). Challenges of the Torrential Flood Risk Management in Serbia. *Journal of the Geographical Institute "Jovan Cvijić" SASA*, 65 (2), 131–143. http://www.gi.sanu.ac.rs/en/publications/journals/pdf/065_2/gijc_zr_65_2_003_petrovic.pdf
- Borisavljević, A., Kostadinov, S. (2012). Integrated River Basin Management of Južna Morava River. *Bulletin of the Serbian Geographical Society*, 92 (1), 135–160. <http://www.doiserbia.nb.rs/img/doi/0350-3593/2012/0350-35931201135B.pdf>
- Kostadinov, S., Borisavljević, A. (2012). Soil Erosion Control and Soil and Water Conservation Worldwide. *Erosion*, 38 (4), 5–31. http://www.udruzenjebujicara.com/index.php?option=com_content&view=article&id=64&Itemid=48&lang=sr-lat
- Borisavljević, A. (2011). The Danube in Serbia – Ecological Status and Management Issues. *Transylvanian Review of Systematical and Ecological Research*, 12, 91–100. <http://stiinte.ulbsibiu.ro/trser/trser12/91-100.pdf>

Articles in Proceedings of International Scientific Conferences

- Petrović, A.M., Manojlović, S., Kostadinov, S. (2022). The Impact of Depopulation on Reduction of the Peaks of Torrential Floods in Selected Watersheds of the Southeastern Serbia. In *Proceedings of the 6th International Symposium on Natural Hazards and Disaster Management – ISHAD 2022*, pp. 201–209.
- Manojlović, S., Petrović, A.M., Srejić, T. (2022). Intra-Annual Dynamics Dissolved Solids and Suspended Sediment in the Extreme Hidrological Events – Case Study Nišava River. In *Proceedings of the 8th International Scientific Conference GEOBALCANICA*, pp. 19–33. <https://doi.org/10.18509/GBP22019m>
- Petrović, A. M., Manojlović, S., Kostadinov, S. (2021). How Extreme were the Torrential Floods in Smaller Watersheds in Serbia in September 2014. In *Proceedings of the 5th International Symposium on Natural Hazards and Disaster Management*.
- Petrović, A. M., Nikolova, V., Novković, I. (2021). The Impact of Watershed Morphometry on Occurrence of Torrential Floods: Case Study of Serbia and Bulgaria. In *Proceedings of the 7th International Scientific Conference Geobalcanica 2021* (pp. 15–28). <https://doi.org/10.18509/GBP210015p>
- Petrović, A. M., Đukić, V., Radić, B. (2021). Hydrological Model of the Toplica Watershed in Addressing New Challenges in Flood Risk Assessment. In *Proceedings of the 7th International Scientific Conference Geobalcanica 2021* (pp. 3–14). <https://doi.org/10.18509/GBP21003p>
- Petrović, A. M. (2016). Floods of Torrential Tributaries in the Zapadna Morava River Basin. In V. Jović & A. M. Petrović (Eds.), *Proceedings of the International Scientific Conference „150th Anniversary of Jovan Cvijić's Birth“* (pp. 289–297). http://www.qi.sanu.ac.rs/media/com_form2content/documents/c26/a414/f478/2016Zbornik_JCvijic.pdf
- Petrović, A. M. (2015). The Torrential Floods in the Južna Morava River Basin. In *Proceedings of the IInd International Conference on Natural Hazards – Links between Science and Practice* (pp. 356–362). ISBN 978-5-7103-3078-4
- Kostadinov, S., Petrović, A. (2013). Forests in Serbia as the Factor of Global Climate Changes Mitigation. In *Proceedings of the International Conference on Climate and Global Change Impacts on Water Resources* (pp. 81–86). ISBN 978–86–82565–41–3.
- Kostadinov, S., Košanin, O., Petrović, A., Milčanović, V. (2013). Water Erosion and Torrential Floods – Significant Factor in Land Degradation. In *Proceedings of the First International Congress of Serbian Soil Science Society* (pp. 451–465). ISBN 978-86-911273-3-6.
- Zlatić, M., Kostadinov, S., Lakićević, M., Borisavljević, A. (2010). Influence of Anthropogenic Factors on Environment in the Rasina Watershed. In *Proceedings of the International Scientific Conference: Forest Ecosystems and Climate Changes* (pp. 265–271). ISBN 978-86-80439-22-8.
- Borisavljević, A., Ristović, I. (2009). Ecoindustrial Ecosystems as Alternative in the Environment Protection from Harmful Influence of Industrial Waste. In *Proceedings of the Second International Symposium: Environment Protection in Industrial Areas* (pp. 203–209). ISBN 987-86-80893-23-5.

Articles in Proceedings of National Scientific Conferences

- Milošević, M. V., Čalić, J., Kovačević-Majkić, J., Petrović, A. M. (2015). Geomorfološki indikatori prirodnih nepogoda - primer blatne bujice u Tekiji 2014. godine. U D. Filipović, V. Šećerov i Z. Radosavljević (Ur.), *Zbornik radova Naučno-stručnog skupa sa međunarodnim učešćem „Planska i normativna zaštita prostora i životne sredine“* (str. 563–570). Beograd: Asocijacija prostornih planera Srbije, Univerzitet u Beogradu – Geografski fakultet. ISBN 978-86-6283-023-4.

- *Borisavljević, A., Ristić, L. (2009). Lokalni akcioni plan za upravljanje komunalnim otpadom za opštinu Ivanjica. Zbornik radova Konferencije o otpadnim vodama, komunalnog čvrstog otpada i opasnog otpada (str. 58–63). Beograd: Udruženje za tehnologiju vode i sanitarno inženjerstvo. ISBN 978-86-82931-28-7.*
- *Borisavljević, A. (2009). Integrirano upravljanje vodnim i zemljišnim resursima u rečnim slivovima u Srbiji. Zbornik radova Konferencije o vodama — korišćenje i zaštita (str. 29–34). Beograd: Srpsko društvo za zaštitu voda. ISBN 978-86-904241-6-0.*

Editor and Co-editor

- *Petrović, A. M. (Ed.). (2015). Book of Abstracts of the International Scientific Conference „150th Anniversary of Jovan Cvijić's Birth“ (128 pp.). Belgrade: Serbian Academy of Sciences and Arts. ISBN 978-86-7025-667-5.*
- *Jović, V., Petrović, A. M. (Eds.). (2016). Proceedings of the International Scientific Conference „150th Anniversary of Jovan Cvijić's Birth“ Vol. 1 & 2 (820 pp.). Belgrade: Serbian Academy of Sciences and Arts. http://www.gi.sanu.ac.rs/media/com_form2content/documents/c26/a414/f478/2016Zbornik_JCvijic.pdf*

Handbook for primary school

- *Ilić, N., Petrović, S., Tadić, V., Ristić, L., Radisavljević, A., Borisavljević A., Muždeka, M. (2010). Životna sredina moga kraja [My environment]. Vladimirci: National-Liberal Network. ISBN 978-86-88327-00-8.*

Professional development

- Wasser Berlin International, DWA program *Young Water Professionals*, 27–31 March 2017, Berlin, Germany;
- 2nd International academy of DBU scholars „Naturschutz und Wasser“, with presentation „Hydrologische Modellierung als Beitrag zum Sturzflut-Rizikomanagement“, 8–11 March 2017, Osnabruck, Germany;
- 1st International Danube:Future Workshop, 8–10 April 2015, Klagenfurt, Austria;
- One-month research stay on the topic of *hydrological modelling in torrential watersheds*, June 2013, BOKU University, Viena, Austria;
- College on Soil Physics — 30th Anniversary, 25 February – 1 March 2013, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italia;
- Workshop „Donau ohne Grenzen“, 4–6 April 2011, German Environment Foundation, Budapest, Hungary;
- Ten-month research stay on the topic of *ecological status of the Danube River and integrated river basin management*, March – December 2010, WWF Institute for Ecology of Floodplains, Rastatt, Germany/ Saxon Foundation for Environment, Dresden, Germany;
- Danube Future Leader's Conference, 5–6 June 2010, Cabinet for European Integration of the Deputy Prime Minister of the Republic of Serbia, Novi Sad, Serbia;
- Workshop „Scientific writing“, 11–13 October 2010, Karlsruher Institute of Technology, Karlsruhe, Germany.
- One-month research stay on the topic of *soil and water resources*, November 2009, University „Alexandru Ioan Cuza Iasi“, Iasi, Romania.
- Workshop „Academical skills“, 8–9 October 2009, Ministry of Education, Science and Technological Development of the Republic of Serbia, Belgrade, Serbia.

Scholarships

- OeAD – Austria’s Agency for Education and Internationalisation, Scholarship for research stay, 2013;
- German Federal Environment Foundation (Deutsche Bundesstiftung Umwelt – DBU), Scholarship for research stay, 2010;
- EU Coimbra Group, Scholarship for research stay, 2009;
- Ministry of Education, Science and Technological Development of the Republic of Serbia, Scholarship for PhD students, 2009.

Membership in Professional Organizations

- European Geosciences Union – EGU (since 2022)
- Serbian Association of Torrent and Erosion Control (since 2017);
- World Assotiation of Soil and Water Conservation – WASWAC (since 2008);
- Serbian Geographical Society (since 2002);
- International Water Association – IWA (2010–2011);
- Serbian Water Society (2009).

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