

## BIOGRAPHY



**Dr. Ana M. Petrović (born Borisavljević)**  
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**Broad area of Specialization:** physical geography, natural hazards, environment protection

**Research Expertise:** hydrology of torrents, torrential floods, soil erosion

Research Gate: <https://www.researchgate.net/profile/Ana-M-Petrovic>

Web of Science: <https://www.webofscience.com/wos/author/record/AAN-8032-2021>

### Education

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

### Employment

- since May 20, 2015: Research Associate, Geographical Institute “Jovan Cvijić” of the Serbian Academy of Sciences and Arts
- 1.11.2013–20.5.2015: Research Assistant, Geographical Institute “Jovan Cvijić” of the Serbian Academy of Sciences and Arts
- 1.5.2012–31.10.2013: Research Assistant, University of Belgrade – Faculty of Forestry
- 1.2.2011–30.4.2012: Research Trainee, University of Belgrade – Faculty of Forestry

### Projects

- 2023–2025: *Project in the frame of Multilateral Scientific and Technological Cooperation in the Danube Region – “Geomorphological interpretation of photogrammetry and laser scanning data in the study of torrential watersheds”,* with scientific research organizations in Bulgaria, the Czech Republic and France (Ministry of Science, Technological Development and Innovations, DS 15), project coordinator in Serbia;
- 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 9<sup>th</sup> International Scientific Conference Geobalcanica, organized by the Geobalcanica Society, 8–9 May 2023, Skopje, North Macedonia;
- Organizing and Scientific Committee of the 8<sup>th</sup> 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 journals 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**

- 6<sup>th</sup> *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;
- *5<sup>th</sup> International Symposium on Natural Hazards and Disaster Management* (ISHAD, online, Turkey), November 2021;
- *7<sup>th</sup> International Scientific Conference Geobalcanica 2021*, Ohrid, North Macedonia, June 2021;
- *1<sup>st</sup> 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.

### **Professional development abroad**

- Wasser Berlin International, DWA program *Young Water Professionals*, 27–31 March 2017, Berlin, Germany;
- 2<sup>nd</sup> International academy of DBU scholars „Naturschutz und Wasser“, with presentation „Hydrologische Modellierung als Beitrag zum Sturzflut-Rizikomanagement“, 8–11 March 2017, Osnabruck, Germany;
- 1<sup>st</sup> 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 — 30<sup>th</sup> 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 Association of Soil and Water Conservation – WASWAC (since 2008);
- Serbian Geographical Society (since 2002);
- International Water Association – IWA (2010–2011);
- Serbian Water Society (2009).

## PUBLICATIONS

### Book

- *Petrović, A. M. (2021). Bujične poplave u Srbiji. [Torrential floods in Serbia].* Belgrade: Serbian Geographical Society, Special issues, 73, 155p. [Bujične 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://doi.org/10.1007/978-3-319-71057-0\\_95-1](https://doi.org/10.1007/978-3-319-71057-0_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://doi.org/10.1007/978-3-319-71057-0\\_116-1](https://doi.org/10.1007/978-3-319-71057-0_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. [https://doi.org/10.1007/978-981-16-7916-2\\_28](https://doi.org/10.1007/978-981-16-7916-2_28)
- *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://doi.org/10.1007/978-3-319-57946-7\\_19](https://doi.org/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., Kostadinov, S., Ristić R., Novković I., Radevski I. (2023). The reconstruction of the great 2020 torrential flood in Western Serbia. *Natural Hazards*, <https://doi.org/10.1007/s11069-023-06066-y>
- 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://doi.org/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://doi.org/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://doi.org/10.1007%2Fs11069-016-2269-1>
- 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://doi.org/10.1007%2Fs11069-015-1860-1>
- 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. <https://doi.org/10.2298/IJGI1502131P>
- 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(1a), 254–263. <https://www.researchgate.net/publication/260407093>

### **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](http://www.revistadegeomorfologie.ro/revista/Rev_geomorfologie_18.pdf)
- Petrović, A. M., Ristić, R. (2015). Spatiotemporal Review of the Torrential Flood Phenomenon in the Morava River Basin. *SPATIUM*, 34, 64–69. <https://doi.org/10.2298/SPAT1534064P>
- Borisavljević, A., Kostadinov, S. (2012). Integrated River Basin Management of Južna Morava River. *Bulletin of the Serbian Geographical Society*, 92 (1), 135–160. <https://doi.org/10.2298/GSGD1201135B>
- 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](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 Hydrological 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.gi.sanu.ac.rs/media/com\\_form2content/documents/c26/a414/f478/2016Zbornik\\_JCvijic.pdf](http://www.gi.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](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.

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