


<b>INSTITUTE OF BIOLOGY AND ECOLOGY FACULTY OF SCIENCE UNIVERSITY OF KRAGUJEVAC</b>		<b>Biographical and bibliographic information</b>		
<b>Personal data</b>				
Name and Surname	<b>Dr. Ana Petrović</b>			
Title	<b>Associate Professor</b>			
<b>The institution data</b>				
Name	<b>Faculty of Science, University of Kragujevac</b>			
Date of establishment of the employment relationship	<b>23. 02. 2006.</b>			
<b>Academic career</b>				
	Institution	Year	Scientific field/scientific title	
PhD degree	Faculty of Science, University of Kragujevac	2014.	Biology – PhD in Biology	
Degree	Faculty of Science, University of Kragujevac	2003.	Biology, ecology - M.Sc. in Biology	
<b>Election to the academic title</b>				
	Institution	Year	Field of Expertise	
Associate Professor	Faculty of Science, University of Kragujevac	2024.	Ecology, Biogeography, and Environmental Protection	
Assistant Professor	Faculty of Science, University of Kragujevac	2016.	Ecology, Biogeography, and Environmental Protection	
Research Associate	Faculty of Science, University of Kragujevac	2015.	Biology	
Teaching Assistant	Faculty of Science, University of Kragujevac	2008.	Ecology, Biogeography, and Environmental Protection	
Junior Researcher	Faculty of Science, University of Kragujevac	2006.	Biology	
<b>List of Bachelor and Master degree courses</b>				
<b>Serial No.</b>	<b>Name of the Courses</b>		<b>Study program</b>	
1.	Basics of Hydrobiology		B. Sc Biology	
2.	Field Teaching		B. Sc Biology	
3.	Protected Areas of Serbia		B. Sc Biology and Ecology	
4.	Basics of Ecology		B. Sc Chemistry	
5.	Basics of Biology		B. Sc Environmental Engineering	
6.	Ecological monitoring of inland waters		M. Sc Ecology	
7.	Aquatic Fauna as a Bioindicator		M. Sc Ecology	
8.	Management of Ecosystems and Protected Areas		M. Sc Ecology and Biology	
9.	Endangered Species Management		M. Sc Ecology	
<b>Authorship of university literature</b>				
1.	<b>Ana Petrović, Vladica Simić (2023).</b> "Fundamentals of Hydrobiology and Hydroecology: A Practicum for Students". Faculty of Science, 2023 (Kragujevac: Interprint). - 193 p. ISBN 978-86-6009-098-2. CIP - Cataloging in the publication of the National Library of Serbia, Belgrade 574.5 (075.8) (076)			
<b>Lists of the most important references</b>				
1.	Simović P., Milošević D., Simić V., Stojanović K., Atanacković A., Jakovljević M., <b>Petrović A.</b> (2024). Benthic macroinvertebrates in a tufa-depositing environment: a case study of highly vulnerable karst lotic habitats in Southeast Europe. <i>Hydrobiologia</i> <a href="https://doi.org/10.1007/s10750-024-05629-9">https://doi.org/10.1007/s10750-024-05629-9</a>			
2.	Simović P., Milosavljević A., Stojanović K., Radenković M., Savić-Zdravković D., Predić B., <b>Petrović A.</b> , Božanić M., Milošević Dj. (2024). Automated identification of aquatic insects: A case study using deep learning and computer vision techniques. <i>Science of The Total Environment</i> , 935, 172877, ISSN 0048-			

	9697 <a href="https://doi.org/10.1016/j.scitotenv.2024.172877">https://doi.org/10.1016/j.scitotenv.2024.172877</a>
3.	Simović P., Simić V., Milošević Dj., <b>Petrović A.</b> (2023). New records of species <i>Taeniopteryx hubaulti</i> Aubert, 1946 and <i>Taeniopteryx schoenemundi</i> (Mertense, 1923) (Plecoptera: Taeniopterygidae) in Serbia. <i>Entomological Research Society</i> , 25(1), 155–166. ISSN (Online): 2651-3579
4.	Tomović J., Simić V., <b>Petrović A.</b> , Atanacković A., Zorić K., Paunović M., Raković M. (2023). Distribution Range of the Endangered Species <i>Unio crassus</i> Philipsson, 1788 in Serbia (Western Balkans Region), <i>Historical and Recent Data</i> . <i>Water</i> 15(24): 4248. ISSN 2073-4441
5.	Simić V., Bănăduc D., Curtean Bănăduc A., <b>Petrović A.</b> , Veličković T., Stojković Piperac M., Simić S. (2022). Assessment of the ecological sustainability of river basins based on the modified the ESHIPPOfish model on the example of the Velika Morava basin (Serbia, Central Balkans). <i>Frontiers in Environmental Sciences</i> 10: 952692. ISSN 2296-665X
6.	Stanković J., Milošević Dj., Jovanović B., Savić-Zdravković D., <b>Petrović A.</b> , Raković M., Stanković N., Stojković- Piperac M. (2022). <i>In Situ</i> Effects of a Microplastic Mixture on the Community Structure of Benthic Macroinvertebrates in a Freshwater Pond. <i>Environmental Toxicology and Chemistry</i> , 41 (4): 888-895. ISSN: 0730-7268
7.	Stamenković O., Stojković-Piperac M., Milosević Dj., Buzhdygan O.Y., <b>Petrović A.</b> , Jenacković D., Djurdjević A. Čerba D., Vlaičević B., Nikolić D., Simić V. (2019). Anthropogenic pressure explains variations in the biodiversity of pond communities along environmental gradients: a case study in south-eastern Serbia. <i>Hydrobiologia</i> , 838 (1): 65-83. ISSN 0018-8158
8.	<b>Petrović A.</b> , Milosević Dj., Paunović M., Simić S., Djorđević N., Stojković M., Simić V. (2015): New data on distribution and ecology of mayflies larvae (Insecta: Ephemeroptera) of Serbia (Central part of Balkan Peninsula). <i>Turkish Journal of Zoology</i> , 39 (2): 195-209. ISSN 1300-0179
9.	Simić V., Maguire I., Rajković M., <b>Petrović A.</b> (2015). Conservation Strategy for the Endangered crayfish species of the family Astacidae: the ESHIPPO crayfish model. <i>Hydrobiologia</i> , 760 (1): 1-13. ISSN 0018-8158
10.	<b>Petrović A.</b> , Simić V., Milošević Dj., Paunović M., Sivec I. (2014): The first data on the diversity and distribution of Plecoptera in the aquatic ecosystem of Serbia (Central Balkan Peninsula). <i>Acta Zoologica Bulgarica</i> 66 (4): 517-526. ISSN 0324-0770

#### Summary of Scientific Activity

Total number of publications	71
Total Papers on SCI (or SSCI) List	23
Total Citations (Scopus)	250
Current Participation in National Projects (Registration number)	451-03-65/2024-03/200122

#### Participation in the implementation of projects, scientific, and professional studies

Status	Project title	Year
Researcher (R)		
R	"The impact of the quality of components in the diet of cyprinids on meat quality, losses, and production efficiency", project number 31011 (Ministry of Education and Science of the Republic of Serbia).	2011-2019.
R	"Biosensing technologies and global system for continuous research and integrated ecosystem management," project number 43002 (Ministry of Education and Science of the Republic of Serbia).	2011-2019.
R	"Transparency of data as a key factor in preserving ecological services of hydroaccumulations." (European Union, the Office for Cooperation with Civil Society, and the Friedrich Ebert Foundation).	2020-2021.
R	NATURA 2020. "Performing analyses and studies of species and natural habitats in Bulgaria, subject to reporting according to Art. 17 of the Directive on habitats and Art. 12 of the Birds directive"	2018-2022.
R	"Research and promotion of biodiversity in the Šumarice Lake with the aim of its conservation and sustainable	2011.

	development," contract number 400-1070/11-V (City of Kragujevac, Environmental Protection Fund).	
R	"ICPDR. Joint Danube Survey II. 2007. Research of macroinvertebrates and fishes". IBISS No 01-1655.	2007.
R	"Running waters of Serbia - biodiversity research and use of data in typology, creation of ecological index and monitoring of ecological status", project number 143023.	2006-2010.
R	"Ex-situ protection of biodiversity of aquatic ecosystems", project number 353-01-1099/04-02 (Ministry of Science and Environmental Protection - Directorate for Environmental Protection of the Republic of Serbia).	2005-2007.
	Title of the study	Year
1.	"Research of benthic communities in the watercourses of NP Kopaonik, with a special focus on rare and protected species. Faculty of Science, Kragujevac. (Public Enterprise NP 'Kopaonik')"	2024, 2023, 2022, 2021. and 2020.
2.	"Biological and ecological research of protected areas: the source of Mlava, the Krupaj Spring, and the Homolje Secret Spring, aimed at establishing biological monitoring and proposing conservation measures." Faculty of Science, Kragujevac.	2023, 2018, 2017. and 2015.
3.	"Report on the biological analysis of the Barje reservoir and assessment of its ecological potential." Faculty of Science, Kragujevac.	2021.
4.	"Report within the project Sanitation and Revitalization of Lakes in the Vicinity of Kikinda," project lead: Faculty of Applied Ecology 'Futura,' Belgrade. Faculty of Science, Kragujevac.	2019.
5.	"Report on the biological analysis of the sediment in the Grlišće reservoir, assessment of the ecological status and ecological potential of the reservoir." Faculty of Science, Kragujevac.	2019, 2018. and 2015.
6.	"Report on the Assessment of the Ecological Status of the Despotovica River. Association of Citizens "GM Optimist," as part of the program for the improvement and preservation of the Despotovica River". Faculty of Science, Kragujevac.	2015.
7.	Program for managing the fishery area "Radan" SE Srbijašume, during 2019-2028. Faculty of Science, Kragujevac. SE Srbijašume.	2019.
8.	Program for managing the fishery area "Zlatibor" SE Srbijašume, during 2019-2028. Faculty of Science, Kragujevac. SE Srbijašume.	2019.
9.	Program for managing the fishery area "Mlava" SE Srbijašume, during 2018-2027. Faculty of Science, Kragujevac. SE Srbijašume.	2018.
10.	"Strategic Master Plan for the Sustainable Development of Mount Rudnik (2014-2024)". University of Kragujevac. ISBN: 978-86-81037-44-7.	2013.
11.	"Representative Office for the Production and Breeding of Native Brown Trout ( <i>Salmo trutta</i> ) Fry in the Upper Reaches of the Tolišnica River". SE Srbijašume.	2013.
12.	Study on the possible impact of the mainstream South Stream pipeline on the ichthyofauna of aquatic ecosystems located on the route of the gas pipeline in the territory of Serbia, for the needs of the analysis of the impact of the main gas pipeline	2013.

	"South Stream" and facilities on the environment, all for the needs collecting the basis for the implementation of the Environmental Impact Study of the Main Stream South Stream in the territory of the Republic of Serbia. Institute Jaroslav Černi, Belgrade.	
13.	Study on the ecological status and sustainable flow of the ecosystem of the Rupska Reka and the Green Stream before and after the construction of the Small Hydroelectric Power Plant on the territory of the municipality of Leskovac. Power BNM ", Kumarevo and PMF Kragujevac.	2013.
<b>Professional Development and Study Visit</b>		
	Institution	State
	The Greek Biotop Wetland Centar / EKBY), Thessloniki, Greece	Greece
		Duration
		5 days
<b>Knowledge of foreign languages</b>		
English language		
<b>Membership in professional and scientific associations</b>		
Member of the Serbian Biological Society "Stevan Jakovljević", Kragujevac.		
<b>Participation in the work and organs of the Faculty</b>		
<ul style="list-style-type: none"> <li>• Head of basic academic studies in ecology (decision number 180/XI-2 of March 30, 2022).</li> <li>• Member of the Ethical Commission for the Protection of the Welfare of Experimental Animals of the PMF (decision number 490/XVI-1 of 10/25/2023).</li> <li>• Member of the Council of the Faculty of Science and Mathematics in the period from 2014 to 2016.</li> <li>• Member of the commission for the Regional Competition of Talented Students (Kragujevac Education Center) (contract number 01-753/18/23).</li> <li>• Member of the commission for the preparation of materials for the accreditation of study programs of basic academic studies in Biology and Ecology and master's academic studies in Biology and Ecology (decision number 210/IX-1 of April 12, 2023).</li> <li>• Member of the admissions committee for basic academic studies in Biology and Ecology (decision number 130/IX-1 dated March 15, 2023).</li> <li>• Member of the commission for the preparation of materials for the accreditation of the study program - Doctoral studies in Biology (decision number 290/VIII-5 of June 12, 2019).</li> <li>• Member of the admissions committee for master's academic studies in Biology, master's academic studies in Ecology and master's academic studies in Biology - molecular biology (decision number 150/VII-2 of 02/28/2018).</li> <li>• Member of the commission for the preparation of materials for the accreditation of study programs of basic academic studies in Biology and Ecology and master's academic studies in Biology and Ecology (decision number 600/XIV-2 dated 06/08/2016).</li> </ul>		
<b>Membership in the editorial board of scientific journals</b>		
• Review Editor - Environmental Water Quality IF 2.9 ISSN 2624-9375		
<b>Reviews of scientific papers, monographs, textbooks, projects, and study programs</b>		
Reviews of scientific papers: 9		
<b>Contribution to the promotional activities of the Faculty and University</b>		
<ul style="list-style-type: none"> <li>• Participant of the seminar for continuous professional development of teachers, educators, specialists, and directors in the school year 2011/12: 'Interesting Ecology - Contemporary Trends in the Study of Structure, Functionality, and Conservation of Ecosystems' (Catalog of Continuous Professional Development Programs for Teachers, Educators, Specialists, and Directors for the 2011/2012 and 2013/14 school years, number 173).</li> <li>• Team member in the implementation of the Strategic Master Plan for the sustainable development of Mount Rudnik, from 2014 to 2024.</li> </ul>		
<b>Other relevant data</b>		
• Database co-author: Simić V., Simić S., Petrović A., Šorić, V., Paunović, M., Dimitrijević, V. (2006): Biodiversity of Serbian aquatic ecosystems and <i>ex-situ</i> protection »BAES <i>ex-situ</i> « <a href="http://baes.pmf.kg.ac.rs">http://baes.pmf.kg.ac.rs</a> .		

#### Coauthor of a chapter in an international monograph

- Simić V., Simić S., **Petrović A.**, Veličković T., Simović P., Stojković-Piperac M., Milošević Đ. (2023). A Brief Overview of the Development of the ES–HIPPO Model for Assessing the Sustainability and Conservation Priorities of Fish, Fish Resources, and Inland Water Habitats, pp 549–571. In: Simić, V., Simić, S., Pešić, V. (eds) Ecological Sustainability of Fish Resources of Inland Waters of the Western Balkans. Fish & Fisheries Series, vol 43. Springer, Cham. ISBN: 978-3-031-36925-4
- Radenković, M., Zorić, K., **Petrović, A.** (2023). Invasive Macroinvertebrate and Fish Species and Their Impact on Fish Resources: A Case Study on Fishing Waters of Serbia, pp 529–546. In: Simić, V., Simić, S., Pešić, V. (eds) Ecological Sustainability of Fish Resources of Inland Waters of the Western Balkans. Fish & Fisheries Series, vol 43. Springer, Cham. ISBN: 978-3-031-36925-4
- Simić, V., Miljanović B., **Petrović, A.**, Radenković, M., Stojković Piperac, M., Veličković, T., Jakovljević, M., Simić, S. (2023). Inland Fisheries in Serbia: Historical Aspect, Fish Resources, Management, and Conservation, pp 113–200. In: Simić, V., Simić, S., Pešić, V. (eds) Ecological Sustainability of Fish Resources of Inland Waters of the Western Balkans. Fish & Fisheries Series, vol 43. Springer, Cham. ISBN: 978-3-031-36925-4
- Vilenica M., **Petrović A.**, Rimcheska B., Stojanović K., Tubić B., Vidinova Y. (2022). How important are small lotic habitats of the Western Balkans for local mayflies? In Small Water Bodies of the Western Balkans (pp. 313-336). Springer, Cham. DOI: 10.1007/978-3-030-86478-115
- Simić V., **Petrović A.**, Erg B., Dimović D., Makovinska J., Karadžić B., Paunović M. (2014). Indicative status assessment, biodiversity conservation and protected areas within the Sava River Basin, pp 453-500. In / Milačić M., Ščančar J., Paunović M. (eds.) (2014): The Sava River. The Handbook of Environmental Chemistry, 31: 506 (ISBN 978-3-662-44033-9).

#### Coauthor of a chapter in a national monograph

- Simonović P., Paunović M., Atanacković A., Vasiljević B., Simić S., **Petrović A.**, Simić V. (2010). Water quality and assessment of the chemical and ecological status of the Danube River and its tributaries after records from the JDS2 survey, pp 303-320. In / Simonovic P. et al. (2010): The Danube in Serbia. The results of the National program of the Second Joint Danube Survey 2007. Belgrade, 339. (ISBN 978-86-81829-96-7).
- Paunović M., Csanyi B., Simić V., Đikanović V., **Petrović A.**, Miljanović B., Atanacković A. (2010). Community structure of the aquatic macroinvertebrates of the Danube river and its main tributaries in Serbia, pp 183-206. In / Simonovic P. et al. (2010): The Danube in Serbia. The results of the National program of the Second Joint Danube Survey 2007. Belgrade, 339. (ISBN 978-86-81829-96-7)

#### Coauthor of the publication

- Simić, S., Simić, V., **Petrović, A.**, Đorđević, N., Veličković, T., Simović, P., Simić-Savić, M., Mladenović-Sofronijević, I., Brdar, A. (2021) Accumulations of the City of Kragujevac - Current Status and Perspectives. Ecomar, Kragujevac. ISBN: 978-86-903200-0-4.

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