

Curriculum Vitae

First Name: Boris
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Work address:

Iowa State University
Department of Ecology, Evolution, and Organismal Biology
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Languages: English, Serbian, Russian (basic), German (basic), Turkish (basic), Classical Latin.

Orcid ID orcid.org/0000-0003-3970-805X

Research Gate https://www.researchgate.net/profile/Boris_Jovanovic

Google citation: <https://scholar.google.com/citations?user=3XuJ40IAAAAJ>

Education:

2012-2016. German "Habilitation" (similar to the USA faculty tenure promotion) program in Nanotoxicology. Completed on 19 April, 2016. Ludwig Maximilian University of Munich, Germany.

2008-2011. PhD. College of Veterinary Medicine, Iowa State University, USA. Co-majors: (1) Toxicology; (2) Fisheries Biology.

2001-2006. BSc + MSc equivalent. Faculty of Science and Mathematics, University of Niš, Serbia. Majors covered – Biology and Ecology.

Current Employment:

08/2023 – to date. Term Associate (Adjunct) Professor. Iowa State University – Department of Ecology, Evolution, and Organismal Biology, Ames, USA.

Professional History:

03/2021 – 07/2023. Term Assistant (Adjunct) Professor. Iowa State University – Department of Ecology, Evolution, and Organismal Biology, Ames, USA.

01/2018 – 03/2021. Term Assistant (Adjunct) Professor. Iowa State University - Natural Resource Ecology and Management, Ames, USA.

06/2012 – 08/2017. Research Group Leader (tenured - permanent employment, left for family reasons). Department of Fisheries Biology and Fish Diseases. Faculty of Veterinary Medicine. Ludwig Maximilian University of Munich, Germany. Leading the research group in Aquatic Nanotoxicology. Developing and conducting research in Nanotoxicology. Supervising graduate students.

03/2013 - 12/2017 (concurrent with above). Adjunct Scientist. Middle East Technical University, Ankara, Turkey. Develop and conduct research in Marine Pollution.

01/2012 – 04/2012. Postdoctoral Research Fellow. Sea Around Us Project (www.seaaroundus.org). Fisheries Center, University of British Columbia, Vancouver, Canada. Reconstructing the parts of

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world fisheries total removal for the period 1950-2010, predominately focusing on Russian EEZ. Estimating the decline of world total fish biomass due to uncontrolled fishing activities.

09/2011 – 12/2011 and 4/2012-06/2012. Postdoctoral Research Associate. Department of Biomedical Sciences, College of Veterinary Medicine, Iowa State University, Ames, USA. Develop and conduct research in Tropical Aquatic Nanotoxicology in collaboration with Smithsonian Tropical Research Institute, Republic of Panama.

01/2008 – 08/2011. Graduate Research Assistant. Department of Biomedical Sciences, College of Veterinary Medicine, Iowa State University, Ames, USA. Develop and conduct research in Nanotoxicology, Fish Immunology, and Aquatic Ecosystem Health.

Grants and Funding

2024. \$1,500. Iowa State University SVPP Term Faculty Professional Development.

2022-2023. \$ 13,000. Iowa State University CALS Diversity program. Graduate Research Assistance Match (GRAM) for a graduate student. B. Jovanović and W. Crumpton.

2021. US\$ \$83,802. Iowa State University major equipment investment toward procurement of FTIR-microscope LUMOS II for environmental microplastics research.

2018. US\$ 880. Iowa State University, Publication Subvention Grant

2018-2019. US\$ 5,000. Iowa State University, Miller Open Education Grant. “Creating an Open Wikibook for the Aquatic Toxicology Graduate Course”. **Principal investigator B. Jovanović.**

2018. EUR 6,910 (US\$ 7,892) AQUACOSM Transnational Access Grant within EU Horizon 2020 H2020-INFRAIA. “MICROFREAK - MICROplastic in FRESHwater Ecosystem: bio-Assessment and Keystone effects”. **Principal investigator B. Jovanović.**

2017. EUR 5,000 (US\$ 5,895). German Academic Exchange Service (DAAD). Internship support for a visiting researcher. **Host B. Jovanović.**

2015-2018. TL 395,747 (EUR 140,310 or US\$ 157,147). Scientific and Technological Research Council of Turkey (TUBITAK). Project No CAYDAG-114Y244. " Estimating the quantity and composition of microplastic in Mediterranean coast of Turkey; its potential for bioaccumulation in seafood". Principal investigator: S. Yemenicioglu; **Co-principal investigator B. Jovanović.**

2013. TL 18,000 (EUR 7,000 or US\$ 9,170). Scientific and Technological Research Council of Turkey (TUBITAK). Project No1059B211300992. "Investigation of the effect of titanium dioxide on the macroinvertebrate community change in aquatic lentic ecosystem". Principal investigator: M. Beklioglu; **Co-principal investigator B. Jovanović.**

2013-2017. EUR 100,000 (US\$ 132,000). EU - FP7-People-Marie Curie Career Integration Grant (CIG). Project No 618006. "Titanium dioxide – the silent killer: Finding the relevant biological target for exposure characterization and risk assessment of nanoparticles toxicity in fish model (FishTiO₂)". **Principal Investigator: B. Jovanović.**

2013. EUR 8, 872 (US\$ 12,066). DFG (German Research Foundation). Project No JO1134/2-1. Initiation of International Research Collaboration with the developing countries: "Impact of titanium dioxide nanoparticles (nano-TiO₂) on the ecology and biodiversity of aquatic macroinvertebrates in pristine ecosystems". **Principal Investigator: B. Jovanović.**

2011. US\$ 1,500. Smithsonian Institution. “Effect of Titanium Dioxide (TiO₂) Nano-particles on Coral Bleaching, Stress Responses and Immune Gene Expression”. **Principal Investigator: B. Jovanović.**

Fellowships:

2013-2017. Marie Curie Association fellow, EU.

2013. TUBITAK Fellow - Scientific and Technological Research Council of Turkey, Turkey

2011. Smithsonian fellow. Smithsonian Tropical Research Institute, Republic of Panama.

2005. UREKA fellow. Science Foundation Ireland, Ireland.

Other Voluntary Non-Contracted Professional Experience:

2008. Research intern in laboratory of Dr. Frederick Goetz at the Great Lakes Water Institute (Milwaukee, WI-USA). Involved in molecular techniques research including sequencing of cDNA libraries for EST production and quantitative PCR of candidate immune genes in fathead minnow (*Pimephales promelas*).

2006 FishBase (world database) collaborator for Serbia and Montenegro (www.fishbase.org). Updated the national checklist of fish species inhabiting aquatic systems of Serbia and Montenegro.

2006–2007. Senior Teaching-assistant at Petnica Science Center – Valjevo, Serbia. (www.psc.ac.rs). Develop research program for ichthyology and aquatic ecology. Develop and organize courses (lectures, laboratory and field work) and course materials in ichthyology. Mentored exceptionally talented and gifted high school students in ichthyology and aquatic ecology research.

2002–2006. Teaching-assistant for ichthyology at Petnica Science Center – Valjevo, Serbia. Mentored exceptionally talented and gifted high school students in ichthyology and aquatic ecology research.

1999–2001. Participant in biology seminars for talented and gifted high school students at Petnica Science Center – Valjevo, Serbia.

Teaching Experience:

2020 – to date “Marine Ecosystems Dynamics” BIOL/AECL/ENSCI 375 course taught at Iowa State University. I developed the whole course from scratch. Every Spring Semester.

2019 – to date “Aquatic Toxicology” AECL/TOX 444/544X course taught at Iowa State University. I developed the whole course from scratch – Open Pedagogy Approach. Odd year Spring Semesters.

2018 – to date “Ecology” AECL 312 / BIOL 312 / ENSCI 312 Lecture and Lab course taught at Iowa State University. Every Fall Semester. As of 2023 serving both roles as an Instructor and a Lab coordinator. This is a required course with enrolment of around 400 students and 20 Lab sections.

2018 – to date “Principles of Toxicology” TOX 401/501 multiinstructor course taught at Iowa State University. Every Fall Semester.

2021 Aquatic Ecology AECL/BIOL486/586 course taught at Iowa State University including Lab coordination. Fall Semester.

2018, 2019. Contributed to Toxicology Seminar - TOX 689 multiinstructor course taught at Iowa State University. Every Fall Semester.

2018 – 2021 Contributed to “Explorations in Natural Resources” NREM 115X multiinstructor course taught at Iowa State University. Every Spring Semester

2010 Teaching-assistant for the BIOL 312 – “Ecology” course taught at Iowa State University.

2010, 2011 “Fun Aquatic World“ course (aka Marine Biology) taught at Iowa State University to talented and gifted precollegiate students through Office of Precollegiate Programs for Talented and Gifted.

2009, 2010, 2011 Teaching-assistant for the AECL 401 – “Introductory Aquatic Animal Health and Medicine” course taught at Iowa State University.

2002–2007 Invited lecturer and teaching-assistant, at Petnica Science Center educational programs, Serbia.

Peer Reviewer:

Research proposals reviewer

2022. NSF *Ad Hoc* reviewer Division of Earth Sciences.

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2019, 2020. Grant proposal reviewer for the Iowa Water Center (**IWC**)

2013 Grant proposal reviewer for the UK Biotechnology and Biological Sciences Research Council (**BBSRC**)

2013, 2014 Grant proposal reviewer for the UK Natural Environment Research Council (**NERC**)

2012 Grant proposal reviewer for the Hungarian Scientific Research Fund (**OTKA**)

Journal reviewer

Performed countless reviews for the following international journals (only top journals listed):

1. Environmental Toxicology and Chemistry (**Editorial Board Member 2015-2024**)

2. Nanotoxicology

3. Environmental Pollution

4. Ecotoxicology

5. Ecotoxicology and Environmental Safety

6. Aquatic Toxicology

7. Chemosphere

8. Journal of Hazardous Materials

9. PLOS ONE

10. Science of the Total Environment

11. Water Research

12. Marine Environmental Research

13. Environmental Science Nano

14. Environmental Science and Pollution Research

15. Marine Pollution Bulletin

Memberships:

2018-2019. Association for the Sciences of Limnology and Oceanography (ASLO).

2012–2018. The Center for NanoScience (CeNS), Munich, Germany – Extraordinary Member.

2011–2013. American Nano Society (ANS).

2010-to date. Society of Environmental Toxicology and Chemistry (SETAC).

2010-2012. American Fisheries Society (AFS).

Recognitions, Honors, and Academic Awards:

2022. Exceptional peer reviewer of the year - Environmental Toxicology and Chemistry journal (selected from a pool of over 800 candidates).

2021. Exceptional peer reviewer of the year - Environmental Toxicology and Chemistry journal (selected from a pool of over 600 candidates).

2018. Exceptional peer reviewer of the year - Environmental Toxicology and Chemistry journal (selected from a pool of over 850 candidates).

2017. Exceptional peer reviewer of the year - Environmental Toxicology and Chemistry journal (selected from a pool of over 800 candidates).

2016. "Exceptional Paper Award" from the Environmental Toxicology and Chemistry journal.

2016. Scientific Performance Incentive Award. Ludwig Maximilian University of Munich, Germany.

2016. Exceptional peer reviewer of the year - Environmental Toxicology and Chemistry journal (selected from a pool of over 800 candidates).

2015. Scientific Performance Incentive Award. Ludwig Maximilian University of Munich, Germany.

2015. Exceptional peer reviewer of the year - Environmental Toxicology and Chemistry journal (selected from a pool of over 1,100 candidates).
2011. Iowa State University Graduate College Research Excellence Award presented on August 6th 2011
2011. Iowa State University Graduate College Teaching Excellence Award presented on May 7th 2011
2011. Iowa State University Graduate Student Organization Outstanding Teaching Award presented on April 9th 2011
2011. Preparing Future Faculty Scholar. Honored by Iowa State University on December 17th 2011.
2011. Preparing Future Faculty Fellow. Honored by Iowa State University on December 17th 2011.
2010. Best Elsevier poster presentation award. SETAC North America 31st annual Meeting. Bridging Science with Communities. Portland Oregon, November 7-11.
2010. Preparing Future Faculty Associate. Honored by Iowa State University on April 27th 2010.
2005. Best scientific oral presentation award. InBiSCo – 2nd International Biology Student Conference, Riga, Latvia, 10-16 April.
- 2002-2005. Universal Bank undergraduate student scholarship for the best undergraduate students of Serbia.

Scientific Conferences and Symposiums:

Conference or conference session organization in the form of a committee member, session chair, etc.

2015. Session Chair: Aquatic Nanotoxicology: from Freshwater to Seawater - overcoming the difficulties of standard toxicity tests and the implications for higher tier toxicity testing. SETAC Europe 25th Annual Meeting. Barcelona Spain, May 3-7.
2010. Session Chair: Aquatic Nanotoxicology SETAC North America 31st annual Meeting. Bridging Science with Communities. Portland, Oregon, November 7-11.
2006. Organizing committee member. World Water Day Conference. Nis, Serbia. March 22.

Oral presentations (first author is the presenter):

2020. IX International Symposium of Ecologists of Montenegro-Virtual Conference, 4.-5.11.2020. Savić-Zdravković, D., **Jovanović, B.**, Stanković, N. & Milošević, Dj. Geometric morphometric approach to unravelling sublethal effects of CeO₂ nanoparticles.
2020. IX International Symposium of Ecologists of Montenegro-Virtual Conference, 4.-5.11.2020. Stanković, J., Stojković Piperac, M., **Jovanović, B.**, Savić-Zdravković, D., Raković, M., Petrović, A., Milošević, Dj. Microcosm approach: In situ effects of microplastic mixture on community structure of freshwater benthic macroinvertebrates.
2019. 11th Symposium for European Freshwater Sciences. Zagreb, Croatia. Jun 30 – July 5. Savić - Zdravković, D., Milošević, Dj., Stanković, J., Djurdjević, A., Duran, H., Uluer, E., Matić, S., Stanić, S., Vidmar, J., Marković, K., Ščančar, J., Djikić, D., Miliša, M. & **Jovanović, B.** Evaluation of Cerium-oxide (CeO₂) nanoparticle toxicity to freshwater midge *Chironomus riparius* (Diptera, Chironomidae) - potential biomarkers
2019. ASLO 2019 Aquatic Sciences Meeting. San Juan, Puerto Rico. 23 February – 2 March. Beklioglu, M., Yalçın, G., Yildiz, D., **Jovanović, B.**, Öztürk, D., Vebrová, L., Boukal, D., Stanković, J., Milošević, Dj., Savić -Zdravković, D., Richardson, J., Feuchtmayr, H., Metin, M., Balkan, D. & Akyürek, Y. In-situ Mesocosms Experiment for Investigating Impacts of Microplastics on Food Web of Shallow Lakes.
2018. 20th International Congress on In Vitro Toxicology (ESTIV2018), Berlin, Germany, October 15-18. Hu, M., **Jovanović, B.** & Palić, D. Prediction of toxico-genomics regulation by microRNA in zebrafish (*Danio rerio*) after exposure to nanoparticles.

2017. 20th International Symposium on Chironomidae. Trento, Italy, July 2 - 8. Savić, D.N., **Jovanović, B.**, Djurdjević, A., Stojković, M., Savić, A. & Milošević, Dj. Variability of mentum shape in *Chironomus tentans* (Diptera, Chironomidae) larvae as an indicator of nano-TiO₂ contamination
2016. Turkish Marine Science Conference 2016. Ankara, Turkey, May 31 - June 31. **Jovanović, B.** Nanoplastic toxicity to fish.
2015. SETAC Europe 25th Annual Meeting. Barcelona, Spain, May 3-7. **Jovanović, B.**, Bezirci, G., Levi, E., Cagan, S., Coppens, J. & Beklioglu, M. Effects of titanium dioxide on freshwater food web – The first TiO₂ outdoor mesocosm experiment.
2015. SETAC Europe 25th Annual Meeting. Barcelona Spain, May 3-7. Greven, A-C., Merk, T., Karagöz, F., Mohr, K., Klapper, M., **Jovanović, B.** & Palić, D. Polycarbonate and Polystyrene Nanoparticles Act as Stressors to the Innate Immune System of Fathead Minnow (*Pimephales Promelas*).
2014. 8th International Shallow Lake Conference: Shallow Lakes in a Fast Changing World. Antalya, Turkey. October 12-17. **Jovanović, B.**, Bezirci, G., Levi, E., Cagan, S., Coppens, J. & Beklioglu, M. Titanium dioxide nanoparticles in aquatic lentic ecosystem - an ecotoxicology approach.
2012. Experimental Biology 2012. San Diego, CA, USA. April 21-25. Whitley, E.M., **Jovanović, B.**, Palić, D. Systemic polyhydroxylated fullerene toxicity in fathead minnows (*Pimephales promelas* Rafinesque, 1820). Abstract indexed and published online in The FASEB Journal 2012, 26:478.1
2011. SETAC North America 32nd annual Meeting. Navigating Environmental Challenges: Historical Lessons Guiding Future Directions. Hynes Convention Center, Boston, MA, USA., November, 13-17. **Jovanović, B.**, Whitley, E., Kimura, K. & Palić, D. Titanium dioxide nanoparticles increased mortality of fish exposed to bacterial pathogen *Aeromonas hydrophila*.
2011. Midwest Chapter of the SETAC & Chicago Chapter of the Society for Risk Analysis joint meeting – “One Environment: Linking Environmental and Human Health Risks”. Grand Geneva resort, Lake Geneva, WI, USA. March 23-24. **Jovanović, B.**, Kimura, K. & Palić, D. Titanium dioxide nanoparticles increased mortality of fish exposed to bacterial pathogen.
2010. SETAC North America 31st annual Meeting. Bridging Science with Communities. Portland Oregon, USA. November 7-11. **Jovanović, B.**, Anastasova L. & Palić, D. Immunotoxicity of nanosized titanium dioxide in fathead minnow (*Pimephales promelas* Rafinesque, 1820).
2010. The 2010 Midwest SETAC annual chapter meeting –“New Science, New Challenges”. St. Paul, MN, USA. March 24-26. **Jovanović, B.** & Palić, D. Effect of nano-Titanium dioxide on innate immune response in fathead minnow.
2006. ECSA 41st International Conference, Measuring and Managing Changes in Estuaries and Lagoons, Venice, Italy, October 15-20. **Jovanović, B.**, Longmore, C., O’Leary, A. & Mariani, S. Fish community structure and distribution in a macro-tidal inshore habitat in the Irish Sea.
2006. ISEM2 – 2nd International Symposium of Ecologist of Montenegro. Kotor, Montenegro, September 20-24. **Jovanović, B.**, Mihaljev Ž. & Maletin, S. Water quality assessment of river Nišava based upon concentrations of heavy metals from chub liver.
2005. InBiSCo – 2nd International Biology Student Conference, Riga, Latvia. April 10-16. **Jovanović, B.** Concentrations of heavy metals in fish tissues from Petnica lake. *Awarded first place for the best oral scientific presentation.*

Poster presentations (first author is the presenter):

2022. SETAC North America 43rd Annual Meeting. Pittsburg, Pennsylvania, USA. November 13-17. Sorensen, R.M., Hohman, A.M., Taylor, A., Cortes, K., Rollins D.K., Riddell, E., McNeill, E. & **Jovanović, B.** Oral exposure to microplastics and nanoplastics in *Drosophila* decreases fecundity, alters heart rate, and decreases metabolic rate.
2019. 11th Symposium for European Freshwater Sciences. Zagreb, Croatia. Jun 30 – July 5. Stanković, J., **Jovanović, B.**, Savić -Zdravković, D., Milosević, Dj. Influence of mixture of microplastic particles (MP) on non-biting midges of *Chironomus riparius* in laboratory setup.

2019. ASLO 2019 Aquatic Sciences Meeting. San Juan, Puerto Rico. 23 February – 2 March. **Jovanović, B.**, Stanković, J., Milosević, Dj., Savić -Zdravković, D., Savić, A., Yalçın, G., Yildiz, D., Öztürk, D., Vebrová, L., Boukal, D. & Beklioglu, M. Comparative indoor and outdoor study of microplastic effects on non-biting midges (Diptera: Chironomidae).
2018. SETAC North America 39th Annual Meeting. Sacramento, California, USA. November 4-8. **Jovanović, B.**, Jovanović, N., Cvetković, V.J., Matic, S., Stanić, S., Whitley, E.M, Mitrović, T.Lj. The effects of a human food additive, titanium dioxide nanoparticles E171, on *Drosophila melanogaster* - a 20 generation dietary exposure experiment.
2018. SETAC Europe 28th annual meeting. Responsible and Innovative Research for Environmental Quality. Rome, Italy. May 13-17. Savić Zdravković, D., **Jovanović, B.**, Đurđević, A., Stanković, J. & Milošević, Dj. Toxicity of TiO₂ nanoparticles to freshwater chironomids – pointing out the relevant endpoints.
2018. Sixth International Marine Debris Conference. San Diego, CA, USA. March 12-16. **Jovanović, B.**, Gökdağ, K, Güven, O., Emre, Y., Whitley, E.M. & Kıdeys, A.E. Virgin microplastics translocate to liver and muscles of adult fish after dietary exposure, causing no apparent harm during the experimental period.
2015. SETAC North America 36th Annual Meeting. Buzzing with Science. Salt Lake City, Utah, USA. November 1-5. **Jovanović, B.**, Cvetković, V. Effects of human food grade titanium dioxide nanoparticle dietary exposure on *Drosophila melanogaster* survival, fecundity, pupation and expression of antioxidant genes.
2014. NanoTOX 2014. 7th International Nanotoxicology Conference. Antalya, Turkey. April 23-26. **Jovanović, B.**, Whitley, E., Crumpton, A., Kimura, K. & Palić, D. Titanium Dioxide Nanoparticles Enhance Mortality of Fish Exposed to Bacterial Pathogens.
2013. SETAC North America 34th Annual Meeting. Harmonizing Science Across Disciplines. Nashville, Tennessee, USA. November 17-21. **Jovanović, B.**, Whitley, E., & Palić, D. Histopathology of fathead minnow (*Pimephales promelas*) exposed to hydroxylated fullerenes.
2013. 11th Symposium on the flora of southeastern Serbia and neighboring regions, Vlasina lake, Serbia, June 13-16. Cvetković, V., Mitrović, T., Stamenković, S., Stojadinović, B., **Jovanović, B.**, Đurđević, M. & Radulović, N. Toxicity of a commonly used solvent dimethyl sulfoxide against *Drosophila melanogaster* larvae: Determination of LC50, LOEC and NOEC values.
2013. SETAC Europe 23rd Annual Meeting. Building a Better Future: Responsible Innovation and Environmental Protection. Glasgow, UK, May 12-16. **Jovanović, B.** & Guzman, H. Effect of titanium dioxide (TiO₂) nanoparticles on Mountainous Star Coral (*Montastraea faveolata*) stress responses.
2010. SETAC North America 31st Annual Meeting. Bridging Science with Communities. Portland Oregon, November 7-11. **Jovanović, B.**, Anastasova, L. & Palić, D. Hydroxylated fullerenes quench neutrophil function in fathead minnow (*Pimephales promelas* Rafinesque, 1820). *Awarded first place for the best Elsevier poster presentation.*
2010. 14th International Congress of Immunology. Kobe, Japan, August 22-27th. **Jovanović, B.**, Anastasova, L. & Palić, D. Nanoparticle immunotoxicity in fish neutrophils.
2009. Central States Chapter Society of Toxicology. 2009 Annual Meeting. Ames, Iowa, USA. October, 1-2. **Jovanović, B.**, Anastasova, L. & Palić D. Effects of nanoparticles on fish innate immune response.
2009. Summer Scholar Program Research Day. Iowa State University, Ames, Iowa, August 15. Anastasova, L., **Jovanović, B.** & Palić D. Toxic effect of C₆₀(OH)₂₄ and TiO₂ on the Neutrophils of Fathead Minnow (*Pimephales promelas* Rafinesque, 1820).
2009. 18th annual Growth Factor and Signal Transduction Symposium - “Systems Biology: Integrative, Comparative, and Multi-Scale Modeling”, Iowa State University, Ames, Iowa, USA. June 11-14. **Jovanović, B.**, Goetz, F. W., Goetz, G. W. & Palić, D. Expression of genes in fathead minnow (*Pimephales promelas* Rafinesque, 1820) during simulation of bacterial and viral challenge.

2008. Summer Scholar Program Research Day. Iowa State University, Ames, Iowa, August 15. Adams, B.S., Kimura, K., **Jovanović, B.** & Palić, D. (2008). Rapid determination of immunomodulation potential for feed additives using fathead minnow neutrophil function.

Workshops:

2021. SETAC Virtual Seminars. What we know and what we need to know: The analysis monitoring and effects of microplastics in humans and the environment. March 16 – April 6.

2013. EU Brokerage on KET in Horizon 2020. Strasbourg, France. November 29.

2013. SETAC Europe 7th Special Science Symposium on " Fate and ecotoxicity of nanoparticles in the environment - current status and the way forward". Brussels, Belgium. October 2-3.

2010. SETAC Pellston workshop on Problem Formulation in Ecotoxicological Risk Assessment. Pensacola, FL, USA. April 18-23.

2009. LabAutomation 2009, Where Science and Industry Come Together. Palm Springs, CA, USA, January 24-28.

2004. SymBioSE – 8th Symposium of Biology Students of Europe, Zagreb-Zadar, Croatia August 01-10.

Invited Lectures and Seminars:

2019. February. Microplastics in the aquatic environment. Department of Natural Resource Ecology & Management. Iowa State University. Ames, Iowa.

2018. November. Microplastics in the aquatic environment, and potential effects on fish. Iowa State Student Sub-Unit of the American Fisheries Society, Ames, IA, USA.

2017. August. Microplastics in the environment. Department of Biological Sciences, Middle East Technical University, Ankara, Turkey.

2016. September. Current topics in nanotoxicology. Department of Biology, University of Bergen, Bergen, Norway.

2013. June. Titanium dioxide: friend or a foe. Ecotoxicology implications. Department of Material Science and Nanotechnology, TOBB University, Ankara, Turkey.

2013. May. Titanium dioxide: friend or a foe. Ecotoxicology implications. Department of Biological Sciences, Middle East Technical University, Ankara, Turkey.

2013. January. Toxic effects of titanium dioxide nanoparticles from common household products on aquatic organisms. Institute of Marine Sciences, Middle East Technical University, Erdemli, Turkey.

MSc and PhD students thesis supervised (committee member or advisor):

8. Emma Johanns - MSc awarded May 2023 (Iowa State University - TOX– committee member)

7. Psalm Amos - MSc awarded December 2023 (Iowa State University - ENSCI– co-major advisor)

6. Danielle Eads - MSc candidate (Iowa State University - ENSCI– co-major advisor)

5. Rachel Sorensen - PhD awarded August 2023 (Iowa State University - TOX – co-major advisor)

4. Bailey McGuire – MSc awarded August 2021 (Iowa State University - TOX - committee member)

3. Nur'Ashiqin Mohd Ridzuan Nirmal (Fulbright Scholar) - MSc awarded August 2021 (Iowa State University - TOX – co-major advisor)

2. Greven Anne-Catherine - PhD awarded February 2016 (Ludwig Maximilian University - Fisheries Biology and Fish Diseases - unofficial co-advisor).

1. Jennifer Kalvenas - MSc awarded July 2014 (Middle East Technical University - Biology - committee member).

List of Peer Reviewed Publications:

(44) Sebteoui, K., Milošević, Dj., Stanković, J., Baranov, V., **Jovanović B.**, Kraus, S., Solan, M. & Csabai, Z. (**In press**). Beneath the Surface: Decoding the Impact of *Chironomus riparius* Bioturbation on Microplastic Dispersion in Sedimentary Matrix. *Science of the Total Environment* (**2022 Impact Factor 9.8**).

(43) Stojanović, J., Savić Zdravković, D., **Jovanović, B.**, Vitorović, J., Bašić, J., Stojanović, I., Žabar Popović, A., Duran, A., Kračun Kolarević, M. & Milošević, Dj. (**2023**). Histopathology of chironomids exposed to fly ash and microplastics as a new biomarker of ecotoxicological assessment. *Science of the Total Environment* **903**, 166042. (**2022 Impact Factor 9.8**).

(42) Sorensen, R.M., Kanwar, R.S. & **Jovanović, B.** (**2023**). Past, Present, and Possible Future Policies on Plastic Use in the USA, Particularly Microplastics and Nanoplastics: A Review. *Integrated Environmental Assessment and Management* **19** (2), 474-478. (**2022 Impact Factor 3.1**).

(41) Stanković, N., **Jovanović, B.**, Kostić Kokić, I., Stojković Piperac, M., Simeunović, J., Jakimov, D., Dimkić, I. & Milošević, Dj. (**2022**). Toxic effects of a cyanobacterial strain on *Chironomus riparius* larvae in a multistress environment. *Aquatic Toxicology* **253**, 106321. (**2022 Impact Factor 4.5**).

(40) Yildiz., D., Yalçın, G., **Jovanović, B.**, Boukal, B.S., Vebrova, L., Riha, D., Stanković, J., Savić-Zdravković, D., Metin, M., Akurek, Y.N, Balkanlı, D., Filiz, N., Milošević, Dj., Feuchtmayr, H., Richardson, J.A. & Beklioğlu, M. (**2022**). Effects of a microplastic mixture differ across trophic levels and taxa in a freshwater food web: In situ mesocosm experiment. *Science of the Total Environment* **836**, 155407. (**2022 Impact Factor 9.8**).

(39) Stanković, J., Milošević, Dj., **Jovanović, B.**, Savić-Zdravković, D., Petrović, A., Raković, M., Stanković, N. & Stojković Piperac, M. (**2022**). In situ effects of a microplastic mixture on the community structure of benthic macroinvertebrates in a freshwater pond. *Environmental Toxicology and Chemistry* **41** (4), 888-895. (**2022 Impact Factor 4.1**).

(38) Savić-Zdravković, D., Milošević, Dj., Conić, J., Marković, K., Ščančar, J., Miliša, M. & **Jovanović, B.** (**2021**). Revealing the effects of cerium dioxide nanoparticles through the analysis of morphological changes in *Chironomus riparius*. *Science of the Total Environment*. **786**, 147439. (**2021 Impact Factor 10.75**).

(37) Sorensen, R.M. & **Jovanović, B.** (**2021**). From nanoplastic to microplastic: A bibliometric analysis on the presence of plastic particles in the environment. *Marine Pollution Bulletin*. **163**, 111926. (**2021 Impact Factor 7.00**).

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Hobbies:

Fishing; Horseback riding (while I was younger); Role playing games (D&D); Writing romantic poems; Trading Card Game “Magic the Gathering“ –long time ago, while I was still in high school I was officially ranked as the 6th best player of Serbia and Montenegro. Now, I play Magic only occasionally for fun and am no longer attending official tournaments. Also interested in Astronomy and Astrophysics and was a member of Astronomical Society „Alpha“ from Serbia from 1999 until 2007.