

PERSONAL INFORMATION

Dora Bjedov

 Osijek , Croatia

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Female | 09.03.1995. | Croatian

WORK EXPERIENCE

May 2024 – present	Faculty of Food and Technology Osijek, Josip Juraj Strossmayer University of Osijek (Postdoctoral researcher)
Jan 2022 – April 2024	BIOTA Ltd. (expert associate for ornithofauna)
Jan 2021 – Dec 2021	Croatian Society for Birds and Nature Protection (expert collaborator on projects)
2016 – 2019	Osijek Zoo (student job)
April – June 2018	Nature park Kopački rit (student job)
June – Aug 2016	All Wetter Zoo, Münster, Germany, working with exotic lorries, <i>Trichoglossus moluccanus</i> (volunteering)

EDUCATION AND TRAINING

March – April 2024	Support of the city of Zagreb for Ph.D. students - mobility at the Department of Animal biology, Faculty of Sciences, University of Lisbon, Lisbon, Portugal
Oct 2020 – July 2023	Doctor of Science (<i>Ph.D.</i>) of postgraduate university studies (doctoral studies): Biology, Faculty of Science and Mathematics, University of Zagreb • dissertation title: Effect of metal(loid)s on biomarkers in blood of white stork (<i>Ciconia ciconia</i>) nestlings from continental Croatia
Jan 2021 – Jan 2022	Pedagogical-psychological-didactic-methodical training (PPDMI), Faculty of Humanities and Social Sciences, Josip Juraj Strossmayer University of Osijek
Feb – July 2020	Erasmus+ mobility at Aarhus University, Roskilde, Denmark
Oct – Dec 2019	eCOST - European Raptor Biomonitoring Facility (ERBFacility) - CA16224 mobility at Aarhus University, Roskilde, Denmark
Sep 2019	Master of Biology (<i>mag. biol.</i>) graduate university study; Department of Biology, Josip Juraj Strossmayer University of Osijek
March – July 2019	Erasmus+ mobility at the Norwegian University of Science and Technology NTNU (Norges teknisk-naturvitenskapelige universitet)
Sep 2017	Bachelor's degree (<i>univ. bacc. biol.</i>) undergraduate university study; Department of Biology, Josip Juraj Strossmayer University of Osijek
2013	Completed II. (language) grammar school in Osijek, Croatia

PERSONAL SKILLS

Mother tongue(s) Croatian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2-2	B2-2	B2-2	B2-2	B2-2
Deutsch	A2	A2	A2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Digital competence	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid
 R; R studio; GraphPad Prism; QGIS, Google Earth, Mendeley; Adobe Acrobat; Microsoft Office: Word, Excel, Power point

Driving licence B category

SCIENTIFIC PUBLICATIONS

Bjedov, D*, Bernal-Alviz, J., Buelvas-Soto, J., Jurman, L.A. & Marrugo-Negrete, J.L. (2024). Elevated Heavy Metal(loid) Blood and Feather Concentrations in Wetland Birds from Different Trophic Levels Indicate Exposure to Environmental Pollutants. *Archives of Environmental Contamination and Toxicology*. <https://doi.org/10.1007/s00244-024-01085-7>

Lončarić, Ž., Lackmann, C., **Bjedov, D.**, Šimić, A., Ečimović, S., Seiler, T.-B., Hollert, H. & Velki, M. (2024). Chronic effects of commercial pesticide preparations on biomarkers and reproductive success in earthworm *Eisenia andrei*. *Environmental Sciences Europe*, 36, 117. <https://doi.org/10.1186/s12302-024-00940-7>

Boić, N., Jukić, N., Mikuška, A., **Bjedov, D.**, Kovačić, M., Šalika-Todorović, T. & Sudarić Bogojević, M. (2024). Preliminary Study of Scent Rolling in Captive Wolves (*Canis lupus* L. 1758) in Response to Olfactory Enrichment. *Biology*, 13(6), 422. <https://doi.org/10.3390/biology13060422>

Bjedov, D., Barbosa, R.S., Oliveira, D.P.D., Dorta, D.J., Sarmiento, M.I., Sarmiento, R.A., Silva, A.L.P. & Gravato, C. (2024). A Dangerous Couple: Sequential Effect of Phosphorus Flame-Retardant and Polyurethane Decrease Locomotor Activity in Planarian *Girardia tigrina*. *Biology*, 13(5), 337. <https://doi.org/10.3390/biology13050337>

Bjedov, D., Mikuška, A., Gvozdić, V., Glavaš, P., Gradečak, D. & Sudarić Bogojević, M. (2024). White stork pellets: non-invasive solution to monitor the anthropogenic particle pollution. *Toxics*, 2(4), 236. <https://doi.org/10.3390/toxics12040236>

Mikuska, T., Mikuska, A., **Bjedov, D.**, Ledinišćak, J., Tomik, A., Šetina, N. & Podravec, D. (2023). NATURA 2000 status does not guarantee the protection of Croatian spoonbill breeding population. Champagnon J., Kralj J., Mikuska A., Cano Alonso, L.S. & Sundar, K.S.G. (eds.) 2023. *Proceedings of the X Workshop of the Eurasian Spoonbill International Expert Group*. IUCN-SSC Stork, Ibis and

Spoonbill Specialist Group Special Publication 3, Arles, France.

Bjedov, D., Mikuska, A., Begović, L., Bollinger, E., Bustnes, J.O., Deme, T., ... & Eulaers, I. (2023). Effects of white-tailed eagle (*Haliaeetus albicilla*) nestling diet on mercury exposure dynamics in Kopački rit Nature Park, Croatia. *Environmental Pollution*, 336, 122377. <https://doi.org/10.1016/j.envpol.2023.122377>

Bjedov, D., Velki M., Kovačić, L.S., Begović, L., Lešić, I., Jurinović, L., Mikuska, T., Sudarić Bogojević, M., Ečimović, S. & Mikuška, A. (2023). White Stork (*Ciconia ciconia*) Nestlings Affected By Agricultural Practices? Assessment Of Integrated Biomarker Responses. *Agriculture*, 13(5), 1045. <https://doi.org/10.3390/agriculture13051045>

Bjedov, D., Velki, M., Toth, L., Marijić Filipović, V., Mikuška, T., Jurinović, L., Ečimović, S., Turić, N., Lončarić, Z., Šariri, S., Al Marsoomi, Y. & Mikuška, A. (2023). Heavy metal(loid) effect on multi-biomarker responses in apex predator: Novel assays in the monitoring of white stork nestlings. *Environmental Pollution*, 324, 121398. <https://doi.org/10.1016/j.envpol.2023.121398>

Bjedov, D., Žižanović, B., Vitman, M., Rakitić A., Šalika-Todorović, T., Sudarić Bogojević, M., Kovačić, M. & Mikuška, A. (2023). Conservation of birds in an urban environment – wild bird fauna at the Osijek Zoo, Croatia. *Veterinarska stanica*, 54(6), 625–636. <https://doi.org/10.46419/vs.54.6.2>

Bjedov, D., Velki, M., Lackmann, C., Begović, L., Mikuška, T., Jurinović, L. & Mikuška, A. (2022). Blood biomarkers in white stork (*Ciconia ciconia*) nestlings show different responses in several areas of Croatia. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology*, 337, 547–558. <https://doi.org/10.1002/jez.2588>

Bjedov, D., Mikuška, A., Lackmann, C., Begović, L., Mikuška, T. & Velki, M. (2021). Application of Non-Destructive Methods: Biomarker Assays in Blood of White Stork (*Ciconia ciconia*) Nestlings. *Animals*, 11(8), 2341. <https://doi.org/10.3390/ani11082341>

Lackmann, C., Velki, M., **Bjedov, D.**, Ečimović, S., Seiler, T.-B. & Hollert, H. (2021). Commercial preparations of pesticides exert higher toxicity and cause changes at subcellular level in earthworm *Eisenia andrei*. *Environmental Sciences Europe*, 33(1), 1–15. <https://doi.org/10.1186/s12302-021-00455-5>

Bjedov, D., Mikuška, A., Velki, M., Lončarić, Z. & Mikuška, T. (2020). The first analysis of heavy metals in the Grey Heron *Ardea cinerea* feathers from the Croatian colonies. *Larus - Godišnjak Zavoda za ornitologiju Hrvatske akademije znanosti i umjetnosti*, 55(1), 7–25. <https://dx.doi.org/10.21857/ypr4oc1kd9>

CONGRESS PARTICIPATION

Bjedov, D. & Tišma, M. (2024). Valorisation of industrial hemp pomace via *Thermomyces lanuginosus* treatment: the analysis of bioactive compounds. 13th Symposium with international participation Kopački Rit: Past, Present, Future 2024. Osijek, Croatia. (poster)

Bjedov, D., Mikuška, A., Turić, N. & Velki, M. (2024). Intraspecific variation in heavy metal concentrations in the blood of the Great Cormorant (*Phalacrocorax carbo* L., 1785). 13th Symposium with international participation Kopački Rit: Past, Present, Future 2024. Osijek, Croatia. (poster)

Fišer, F., Tuškan-Hepak, P., **Bjedov, D.**, Mikuška, A. & Velki, M. (2024). Great Cormorant (*Phalacrocorax carbo* L. 1785) as bioindicator species for heavy metals in aquatic ecosystems. 13th Symposium with international participation Kopački Rit: Past, Present, Future 2024. Osijek, Croatia. (poster)

Kovačić, L.S., **Bjedov, D.**, Fišer, F., Mikuška, A. & Velki, M. (2024). Is pollution giving fish a headache? Biomarker analysis in fish brains from Danube floodplain. 13th Symposium with international participation Kopački Rit: Past, Present, Future 2024. Osijek, Croatia. (presentation)

Žižanović, B., **Bjedov, D.**, Mikuška, A. & Sudarić Bogojević, M. (2023). Application of standard and

modified oviposition traps in monitoring of invasive mosquito species in Slavonski Brod. 5th Croatian Symposium On Invasive Species. Zagreb, Croatia. (poster)

Bjedov, D., Mikuška, A., Velki, M., Domazetović, H. & Mikuška, T. (2023). An overview of White-tailed eagle (*Haliaeetus albicilla*) biomarker response used for environmental assessment. 12th Symposium with International Participation Kopački Rit Past, Present, Future 2023. Osijek, Croatia. (poster)

Mikuška, A., Mikuška, T., **Bjedov, D.**, Žižanović, B. & Brkić, F. (2023). Breeding of the Rook (*Corvus frugilegus* L. 1758) in Osijek from 2019 to 2023. 12th Symposium with International Participation Kopački Rit Past, Present, Future 2023. Osijek, Croatia. (poster)

Kovačić, L.S., **Bjedov, D.**, Turić, N., Mikuška, A., Pavičić, A.M., Vignjević, G. & Velki, M. (2023). The Beetle Brigade: *Cybister lateralmarginalis* (Coleoptera: Dytiscidae) Revealing Pollution in Pannonian Croatia's Aquatic Ecosystems. 12th Symposium with International Participation Kopački Rit Past, Present, Future 2023. Osijek, Croatia. (poster)

Šariri, S., **Bjedov, D.**, Al Marsoomi, Y., Karamatić, I., Velki, M., Mikuška, A., Mikuška, T., Jurinović, L. & Filipović Marijić, V. (2023). First application of electrochemistry in assessment of metal exposure in storks. 12th ISE Satellite Student Regional Symposium on Electrochemistry. Zagreb, Croatia. (presentation)

Bjedov, D., Velki, M., Mikuska, T., Jurinović, L., Turić, N., Toth, L., Ečimović, S., Lončarić, Z. & Mikuška, A. (2022). Metal and metalloid concentrations in the blood of white stork (*Ciconia ciconia*) nestlings from continental Croatia. 14th Croatian Biological Congress with International Participation. Pula, Croatia. (poster)

Beneš, V., Lešić, I., Jarić, B., **Bjedov, D.**, Mikuška, A., Mikuška, T. & Begović, L. (2022). Methylation of metallothionein gene shows spatial variation in the blood of white stork nestlings (*Ciconia ciconia* L.). 14th Croatian Biological Congress with International Participation. Pula, Croatia. (poster)

Mikuska, A., **Bjedov, D.**, Ledinišćak, J., Tomik, A., Šetina, N., Podravec, D. & Mikuska, T. (2022). NATURA 2000 status does not guarantee the protection of Croatian Spoonbill breeding population. X. International Workshop Eurasian Spoonbill International Expert Group „Strengthen spoonbill network towards Eastern Mediterranean countries“. Petřčane, Croatia (presentation)

Bjedov, D., Kovačić, L.S., Velki, M., Mikuska, T., Jurinović, L. & Mikuška, A. (2022). Comparison of oxidative stress biomarkers in white storks breeding near landfill and agricultural areas. 11th Symposium with International Participation Kopački Rit Past, Present, Future 2022. Osijek, Croatia. (poster)

Blažević, M., **Bjedov, D.**, Ghrib F.L., Vucić, M. & Jelić, D. (2022). Preliminary data on herpetofauna monitoring in Nature Park Kopački rit with the emphasis on target species *Emys orbicularis*, *Bombina bombina*, and *Triturus dobrogicus*. 11th Symposium with International Participation Kopački Rit Past, Present, Future 2022. Osijek, Croatia. (poster)

Glavaš, P., **Bjedov, D.**, Gradečak, D., Sudarić Bogojević, M., Gvozdić, V. & Mikuška, A. (2022). Analyses on Diet and Anthropogenic Particles in Pellets of White Stork (*Ciconia ciconia* L.) from Croatia. 2nd ISC Green Conference. Osijek, Croatia. (poster)

Bjedov, D., Velki, M., Mikuška, T., Jurinović, L. & Mikuška, A. (2022). No harm done: biomarker assessment in white stork nestlings' blood from differently polluted areas in Croatia. 6th Faculty of Science PhD Student Symposium. Zagreb, Croatia. (poster)

Bjedov, D., Glavaš, P., Jarić, B., Velki, M., Begović, L., Sudarić Bogojević, M. & Mikuška, A. (2021). Avian ecotoxicology: Ongoing research in Croatia. 6th Ornithological meeting. Jastrebarsko, Croatia. (presentation)

Vitman, M., **Bjedov, D.**, Velki, M., Mikuška, T., Jurinović, L. & Mikuška, A. (2021). Aktivnost esteraza u krvi ptića bijele rode (*Ciconia ciconia*) s različitih lokaliteta u Hrvatskoj. 6th Ornithological meeting. Jastrebarsko, Croatia. (presentation)

Lešić, I., **Bjedov, D.**, Jarić, B., Marelja, M., Mikec, P., Beneš, V., Mikuška, A. & Begović, L. (2021) Istraživanje spolne strukture populacije bijelih roda na području kontinentalne Hrvatske. 6th

Ornithological meeting. Jastrebarsko, Croatia. (presentation)

Bjedov, D., Žižanović, B., Rakitić, A., Vitman, M., Hlaj, I., Flauder, E. & Mikuška, A. (2021). Cenzus ptica ZOO vrta grada Osijeka. 6th Ornithological meeting. Jastrebarsko, Croatia. (presentation)

Bjedov, D., Glavaš, P., Sudarić Bogojević, M., Mikuška, T. & Mikuška, A. (2021). Analyses on Macro and Microplastic Particles in Pellets of White Stork (*Ciconia ciconia*) From Croatia. Biological-Psychological Student Conference. Koper, Slovenia. (poster)

Jarić, B., Mikuška, A., **Bjedov, D.** & Begović, L. (2021). Methylation-Sensitive Amplification Polymorphism (MSAP) of White Stork (*Ciconia ciconia* L.) DNA in Eastern Croatia. Biological-Psychological Student Conference. Koper, Slovenia. (poster)

Bjedov, D., Mikuška, A., Begović, L., Bollinger, E., Deme, T., Mikuška, T., Morocz, A., Schulz, R., Søndergaard, J., Bustnes, J.O. & Eulaers, I. (2021). A first investigation of mercury in body feathers of nestling white-tailed eagle *Haliaeetus albicilla* from Croatia. CROTOX2020 6th Croatian Congress of Toxicology with international participation. Rabac, Croatia. (poster)

Bjedov, D., Velki, M., Mikuška, T., Jurinović, L. & Mikuška, A. (2021). Biomarkers of effect in plasma of white stork (*Ciconia ciconia*) nestlings show spatial variation from Croatia. 10th Symposium with International Participation Kopački Rit Past, Present, Future 2021. Osijek, Croatia. (poster)

Bjedov, D., Mikuška, A., Lackmann, C., Begović, L., Mikuška, T., Jurinović, L. & Velki, M. (2021). Biomarkers of effect and oxidative stress analysis in blood of white stork (*Ciconia ciconia*) nestlings from Croatia. 5th Faculty of Science PhD Student Symposium. Zagreb, Croatia. (poster)

Bjedov, D., Mikuška, A., Velki, M., Lončarić, Z. & Mikuška, T. (2020). First analysis of heavy metals in Grey Heron *Ardea cinerea* feathers from Croatian colonies. 9th Symposium with International Participation Kopački Rit Past, Present, Future 2020. Kopačevo, Croatia. (poster)

Bjedov, D. & Eulaers, I. (2020). Assessment of existing capacity and knowledge to detect pan-European spatial and temporal trends in the exposure of raptors to legacy organochlorines. 3rd General Meeting (GM3), 4th Management Committee Meeting (MC4) and Proof of Concept WG Meeting – European Raptor Biomonitoring Facility. Porto, Portugal. (presentation)

Komljenović, J., Kristić, T., Mandir, T., **Bjedov, D.**, Đurić, A., Kovačević, M. & Mikuška, A. (2018). Breeding of rooks (*Corvus frugilegus* L. 1758) in the eastern Slavonija. 1st International Students' GREEN Conference. Osijek, Croatia. (poster)

Mikuška, A., Felja, A., **Bjedov, D.**, Kajan, K., Blažević, M., Zovko, A., Benić, P. (2015). Distribution and trend of breeding population of Rooks (*Corvus frugilegus* L. 1758) in Osijek. 12th Croatian Biological Congress. Sveti Martin na Muri, Croatia. (poster)

EXPERT REPORTS

Blažević, M., **Bjedov, D.** & Jelić, D. (2023). Research of the amphibian and reptile population with emphasis on EM target species (*Emys orbicularis*, *Testudo hermanni* and *Zamenis situla*). BIOTA d.o.o., Zagreb

Blažević, M., **Bjedov, D.**, Bajić, P., Krajnović, M., Pušić, A., Deanović, I. & Jelić, D. (2023). Monitoring of the herpetofauna of the Telašćica Nature Park with an emphasis on the target species European ratsnake (*Zamenis situla*). BIOTA d.o.o., Zagreb

Bjedov, D., Blažević, M. & Jelić, D. (2023). Monitoring and reporting on the status of conservation goals and the integrity of the ecological network area at the location of the Virovitička jezera. BIOTA d.o.o., Zagreb

Bjedov, D., Blažević, M., Krajnović, M. & Jelić, D. (2022). Expert opinion on the impact of the project "Construction of the connecting road: section Drvenik - junction Ravča" on bird fauna. BIOTA d.o.o.,

Zagreb

Blažević, M., Jurman, L. A., Vucić, M., Ghrib F. L., **Bjedov, D.**, Maksimović, I. & Jelić, D. (2022). NATURAVITA project - Monitoring of habitats, flora and fauna - repeated procedure - Group 4: Monitoring of herpetofauna. BIOTA d.o.o., Zagreb

SCIENTIFIC PROJECTS

- 2023 Associate on the project "Research of native and non-native fauna of birds, fish and insects, and bioaccumulation of heavy metals in their food webs" at the Department of Biology, Josip Juraj Strossmayer University of Osijek.
- 2022 Associate on the project "Research of floodplain ornithofauna and the presence of non-essential metals and anthropogenic particles in the diet of white storks and white tailed eagles in Croatia" at the Department of Biology, Josip Juraj Strossmayer University of Osijek.
- 2022 Associate on the project "Oxidative stress and metallothioneins as indicators of environmental pollution in the blood of white storks (*Ciconia ciconia*)" at the Department of Biology, Josip Juraj Strossmayer University of Osijek.
- 2021 Associate on the project "Biochemical parameter analyzes in blood of white stork (*Ciconia ciconia*) nestlings from Croatia" at the Department of Biology, Josip Juraj Strossmayer University of Osijek.
- 2019 Student-leader of the student project "Analysis of heavy metals in Gray Heron (*Ardea cinerea*) feathers from Croatian colonies" under the mentorship of asst. prof. Alma Mikuska, Ph.D. and assoc. prof. Mirna Velki, Ph.D., (Department of Biology, Josip Juraj Strossmayer University of Osijek), in cooperation with the Faculty of Agrobiotechnical Sciences in Osijek.
- 2019 Student-associate on the project "ECOSTRESS - Ecological consequences of environmentally persistent pollutants in a marine sentinel species: A multi-stressor approach" under the mentorship of Igor Eulaers, Ph.D., at Aarhus University, Roskilde, Denmark.
- 2019 Student-associate on the project "Urban development, shipping and tourism impacts on marine ecosystem in Tromsø. Investigation of cocktail effects using bivalves as sentinel species", under the mentorship of assoc. prof. Veerle Jaspers, Ph.D., assoc. prof. Augustine Arukwe, Ph.D., and Perrine Geraudie, Ph.D., at the Department of Environmental Toxicology, Norwegian University of Science and Technology, Trondheim, Norway.

AWARDS

- 2023 Scholarship-award from the City of Zagreb for the education of PhD students at the University of Zagreb
- 2022 Prize for the best Poster presentation at the 6th PhD Symposium Faculty of Science, University fo Zagreb
- 2020 Young Scientist Award at the 6th Croatian Toxicological Congress CROTOX2020
- 2019 Award for the best photo as part of the project to popularize the science of Biolog-i-ja organized by the Department of Biology, Josip Juraj Strossmayer University of Osijek
- 2019 Award for the best photo of the "Biological diversity of Osijek-Baranja County" competition, organised by the Public Institution for Nature Protection Osijek-baranja County in cooperation with the Public Institution Nature park Kopački rit

MEMBERSHIPS

May 2024	Member of Croatian Society of Toxicology
Oct 2023 – present	Member of the Management Board of Alumni BiolOs
Jan 2022 – present	Member of the Croatian Society for Biological Research (HDBI)
2016	Vice-president of the ZOA biology student association
2014	Co-founder of the association of biology students ZOA

ADDITIONAL INFORMATION

2015 – 2019	Demonstrator at the practical course Vertebrates at the Department of Biology, Josip Juraj Strossmayer University of Osijek
2014 – 2018	Co-organizer of the European Bat Night in Osijek Zoo, Croatia
2014 – 2016	Participant in the science popularization project "Biolog-i-ja" (ornithological part) at the Department of Biology, Josip Juraj Strossmayer University of Osijek
2014 – 2016	Participation in counting the nesting colonies of rooks (<i>Corvus frugilegus</i>) in Osijek, Croatia
2015	Participation in the winter waterbird census in the area of Slavonia and Baranja as the head of the Ornithology section in the association of biology students ZOA with the Croatian Society for the Protection of Birds and Nature