

Erika Mária Juhász



Personal information

Place and date of birth: Gyula, Hungary, 26. April 1993

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E-mail: erikamaria.juhasz@gmail.com

Nationality: Hungarian

Workplace: Centre for Ecological Research,
Institute of Ecology and Biology

Education

2017-2021 Eötvös Loránd University, Doctoral School of Biology, Ecology, conservation biology and systematics doctoral education program

2015-2017 University of Szeged, Biologist MSc

2011-2015 University of Szeged, Biology BSc

2007-2011 Erkel Ferenc Grammar School, Gyula

Language skills

English (B2)

German (B2)

Scholarships

2021-2022 National Talent Programme of Hungary, Scholarship for the Young Talents of the Nation

2021 Blue Planet Climate Protection Foundation Research Scholarship

2019-2020 New National Excellence Programme Scholarship

2018-2019 National Talent Programme of Hungary, Scholarship for the Young Talents of the Nation

2018-2019 ELTE Talent Support Council Travel grants

2018 Campus Mundi Travel grant (Slovenia)

2017-2018 National Talent Programme of Hungary, Scholarship for the Young Talents of the Nation

2017-2018. ELTE Talent Support Council Travel grants

2016-2017 Scholarship granted by the Hungarian Republic [Köztársasági Ösztöndíj]

2016-2017 New National Excellence Programme Scholarship

2016-2017 Szeged City Scholarship

2016-2017 Bay Zoltán Scholarship (Gyula city)

2015 Campus Hungary Travel grant (Romania)

Awards and competitions

2022 Stephen W. Kuffler Publication Award

2021 Award for Best Young Presenter, 13th "Advances in Research on the Flora and Vegetation of the Carpatho-Pannonian Region" International Conference

2017 Award from the faculty's dean, University of Szeged, Faculty of Science and Informatics

2017 National Scientific Students' Associations Conference, 2nd place

2016 Award from the faculty's dean, University of Szeged, Faculty of Science and Informatics
2016 Scientific Students' Associations Conference, University of Szeged, 2nd place
2016 Participation in the National Higher Education Student Conference for Environmental Science
2015 Scientific Students' Associations Conference, University of Szeged, 2nd place

Publications

Publications in English

- Juhász, E., Bede-Fazekas, Á., Katona, K., Molnár, Zs., Biró, M. (in press) Foraging decisions with conservation consequences: Interaction between beavers and invasive tree species. *Ecology and Evolution*. (Q1, IF: 2.91)
- Juhász, E., Katona, K., Molnár, Zs., Hahn, I., Biró, M. (2020). A reintroduced ecosystem engineer species may exacerbate ongoing biological invasion: selective foraging of the Eurasian beaver in floodplains. *Global Ecology and Conservation*. 24: e01383 (Q1, IF: 3.3) <https://doi.org/10.1016/j.gecco.2020.e01383>
- Bakó, G., Molnár, Zs., Bakk, L., Horváth, F., Fehér, L., Ábrám, Ö., Morvai, E., Biró, Cs., Pápay, G., Fűrész, A., Penksza, K., Pácsonyi, D., Demény, K., Juhász, E., Dékány, D., Csernyava, L., Illés, G., Molnar, A. (2021). Toward a High Spatial Resolution Aerial Monitoring Network for Nature Conservation—How Can Remote Sensing Help Protect Natural Areas?. *Sustainability*, 13(16), 8807. *Sustainability*, (Q1, IF: 2.576), <https://doi.org/10.3390/su13168807>
- Ulicsni, V., Babai, D., Juhász, E., Molnár, Zs., Biró, M. (2020). Local knowledge about a newly reintroduced, rapidly spreading species (Eurasian beaver) and perception of its impact on ecosystem services. *PLoS ONE* 15(5): e0233506. (D1, IF: 2.74), <https://doi.org/10.1371/journal.pone.0233506>

Publications in Hungarian

- Juhász, E., Biró, M., Babai, D. és Molnár, Zs. (2020). Természetvédők és kutatók ismeretei az eurázsiai hód kapcsán a Kárpát-medencében II.: táplálkozás, építés, élőhelyválasztás, ismeretterjesztés. [Knowledge of nature conservationists and researchers in the Carpathian Basin associated with the Eurasian beaver II: food choice, building activity, habitat selection of the species, communication about beavers] *Természetvédelmi Közlemények* 26: 138–166. <https://doi.org/10.20332/tvk-jnatconserv.2020.26.138>
- Juhász, E., Biró, M., Ulicsni, V., Molnár, Zs. (2019). Természetvédők és kutatók ismeretei az eurázsiai hód kapcsán a Kárpát-medencében I.: elterjedés, életnyomok, az együttélés lehetőségei, az elhullás okai. [Knowledge of nature conservationists and researchers in the Carpathian basin associated with the Eurasian beaver I: spread, recognisable beaver signs, coexistence and causes of mortality] *Természetvédelmi Közlemények* 25: 59-79. <https://doi.org/10.20332/tvk-jnatconserv.2019.25.59>
- Juhász, E. (2018). Az eurázsiai hód (*Castor fiber* LINNAEUS, 1758) elterjedése és tevékenysége a Dél-Alföldön. [Distribution and activity of the Eurasian beaver (*Castor fiber* LINNAEUS, 1758) on the southern part of the Great Hungarian Plain, Hungary] *Állattani Közlemények*, 103(1–2), 15–32. <https://doi.org/10.20331/AllKoz.2018.103.1-2.15>
- Juhász, E., Babai, D., Biró, M., Molnár, Z., & Ulicsni, V. (2017). Az eurázsiai hód (*Castor fiber*) táplálkozási és fásszárú-használati szokásaival kapcsolatos helyi tudás két évtizeddel a visszatelepítések kezdete után a Kárpát-medencében. [Local ecological knowledge on feeding habits and woody plant species usage of the reintroduced Eurasian beaver (*Castor fiber*) in the Carpathian Basin two decades after its reintroduction] *Természetvédelmi Közlemények*, 23 182–200. <https://doi.org/10.20332/tvk-jnatconserv.2017.23.182>

Babai, D., Ulicsni, V., Biró, M., Juhász, E., Molnár, Zs. (2020). „Az emberek nem tudják miféle. Még emlékezet se volt róluk!” Természetismeret-szerzési mechanizmusok egy visszatelepített ökoszisztéma-mérnök faj (eurázsiai hód – *Castor fiber*) kapcsán. [Mechanisms of Knowledge Acquisition in Relation to a Reintroduced Ecosystem Engineer Species (Eurasian Beaver – *Castor fiber*)] Ethno-Lore: Az MTA Néprajzi Kutatóintézetének Évkönyve 2019, XXXVI pp. 227-244.

Book reviews

Briggs, M. K. & Osterkamp, W. R. (2020). *Renewing Our Rivers: Stream Corridor Restoration in Dryland Regions*. (Noted with Interest, 2022, Conservation Biology, Juhász, E.)

Hood, G. A. (2020). *Semi-aquatic Mammals: Ecology and Biology*. (Noted with Interest, 2021, Conservation Biology, Juhász, E.)

Wohl, E. (2019). *Saving the Dammed: Why We Need Beaver-Modified Ecosystems*. (Noted with Interest, 2021, Conservation Biology, Juhász, E., Molnár, Zs.)

Research interest

My research focuses on the rapidly expanding ecosystem engineer species, the Eurasian beaver. I study the effects of the species' selective foraging and dam construction on aquatic and riparian communities. I am also interested in the distribution and population size of the beaver in Hungary, as well as the knowledge and perception of conservationists and local people about the species.

Further topics of my scientific interest: conservation problems in floodplains and along small watercourses; biological invasion in floodplains; the ecology of large carnivore species; the knowledge and perception of lay people, locals and various experts about large carnivores.

Other scientific activity

Coordinator of the Beavermap citizen science project (Centre for Ecological Research; www.hodterkep.hu; from 2021)

Organiser of the Online Biological Conference, Hungary (2020-2021)

Organiser of the Supraindividual Club, Eötvös Loránd University (2018-2020)

Supervision: two BSc students with a completed thesis

Thesis review: one BSc student

Contribution to nature films:

Szendőfi, B. A szőke tó - A Tisza-tó hat évszaka (movie scene)

Szendőfi, B. RSD - A marasztalt folyó (mammal expert)

Civilian helper of park rangers: voluntary nature conservation activity (Kiskunsági National Park Directorate, Hungary; 2017-)

Lecturing at the Eötvös Loránd University: Ecology practice [2018-2020, in Hungarian]; Plant systematics practice [2018, in Hungarian]; Plant systematics spring field practice [2018, in Hungarian]; Plant systematics autumn field practice [2017-2018, in Hungarian]

Voluntary work on conferences: Hungarian Conservation Biological Conferences, 2014, 2016

British Ecological Society membership

Communication, media activity

Self-managed websites

[Hódkutatás Magyarországon \[Beaver research in Hungary\] \(Juhász, E. and Czabán, D.; Mammalogy.hu\)](#)

[Hódok Magyarországon/Beavers in Hungary website in the social media \(Juhász, E. and Czabán, D.\)](#)

Media reports

6 reports in national and 3 reports in regional media platforms (in Hungarian)

Conferences

Oral presentations in English

[Juhász, E., Vági, B., Molnár, Zs., Sári, G., Szabó, Gy., Klébert, A., Katona, K., Németh, A., Biró, M. \(accepted\).](#) The effects of an ecosystem engineer species (*Castor fiber*) in the light of the biodiversity crisis along Central European watercourses. Biodiversity across the Aquatic-Terrestrial Boundary Symposium, 6th European Congress of Conservation Biology, Prague, 22-26 August, 2022.

[Juhász, E., Katona, K., Molnár, Zs., Hahn, I., Biró, M. \(2021\).](#) Unexpected interaction between reintroduced beavers and invasive woody species in European floodplains. 11th Baltic Theriological Conference, online, 25-27 January 2021.

[Juhász, E. \(2020\).](#) Ecosystem engineers and human-induced landscape change: The beaver's impact in degraded alluvial forests. 6th Student Conference on Conservation Science, Tihany, 25-29 August 2020.

Poster presentations in English

[Juhász, E., Molnár, Zs., Ulicsni, V., Babai, D., Biró, M. \(2019\).](#) Effects of an ecosystem engineer in the Carpathian Basin – Opinions of conservationists and local people about the Eurasian beaver. Landscape diversity and biodiversity 18th International Symposium on Problems of Landscape Ecological Research, Smolenice, Slovakia, 23-27. April 2019.

[Juhász, E., Sugár, Sz., Kecskés, A. \(2018\).](#) Dietary habits of brown bear (*Ursus arctos*) in the hyperphagic season: long-term food composition analysis in the Eastern Carpathians, Romania. Life with bears - 26th International Conference on Bear Research and Management, Ljubljana, Slovenia, 16-21. September 2018.

[Demeter, L., Kiš, A., Biró, M., Babai, D., Szabados, K., Marinkov, J., Juhász, E., Ulicsni, V., Kemenes, A., Molnár, Zs. \(2018\).](#) Traditional pig herding in the floodplain of the Sava river – an ecological perspective of forest and wetland grazing in 7th Balkan Botanical Congress, Novi Sad, Serbia, 10-14. September 2018. Botanica Serbica 42 (Suppl.): 118. (peer reviewed abstract)

http://botanicaserbica.bio.bg.ac.rs/arhiva/pdf/2018_42_2_1_full.pdf