

Mgr. Anna Mrázová

Maiden name: Anna Humlová (please not this name also in my publications)

* 1991, married, 2 children

Place of birth: Prague, Czech Republic

Residency address: Sedlce 80, Svatý Jan and Malsi, 37401, Czech Republic

Email contact: anna.mrazova.eco@gmail.com / anice.manice@gmail.com

Laboratory web page: <https://multitrophicinteractions.blog/anna-mrazova/>

Career objective:

I have shown a strong motivation and enthusiasm for science, and trophic interactions precisely, during my two maternity leaves. Despite the obstacles and constraints that motherhood brought, I successfully completed all my PhD field experiments, authored 3 and co-authored 8 papers, and fulfilled my study obligations with the state PhD exam in due time (i.e., within four years of my PhD scholarship) and finished my PhD studies with a cum laude defence with only one year delay. As it is typical for mothers in science, I have become an excellent manager, as evidenced by managing all my personal and academic responsibilities and managing my own research grants and students. Through my work with students, independently as well as with collaborators globally, I profile myself as a very flexible and easy-going researcher.

Employment:

2017 – ongoing: Biology Centre CAS, Institute of Entomology, Department of Ecology, Ass. Researcher/Postdoc

2021 – ongoing: Faculty of Science, University of South Bohemia, Consultant, Data manager

2017 – 2020: Biology Centre CAS, Institute of Entomology, Data collection manager (LifeWebs Project)

2017 – 2018: Faculty of Science, University of South Bohemia, Associate researcher

2015 – 2016: CzechGlobe, Global Change Research Institute of the Czech Academy of Sciences, Technician

Education:

2017 – 2022: PhD study at University of South Bohemia, specialization Zoology (Thesis: Interactions between plants, herbivorous insects, and predators: mechanisms and ecological importance, supervisors: Dr. Katerina Sam, Prof. Vojtěch Novotný)

2015 – 2017: Master study at University of South Bohemia, specialization Zoology (Thesis: Can insectivorous birds sense plants calling for help?; supervisor: Dr. Katerina Sam)


2011 – 2015: Bachelor study at University of South Bohemia, specialization Zoology (Thesis: Interspecific interactions of short-toed tree creeper and European tree creeper; supervisor: Dr. Petr Veselý)

Internships:

2017, 2018 (one month each): Prof. Manfred Ayasse, Department of Evolutionary Ecology and Conservation Genomics, Ulm, Germany, GC-MS analyses

2018, 2019 (one month each): Dr. Luisa Amo, Department of Evolutionary Ecology, National Museum of Natural Sciences, Madrid, experiments planning and conducting

Publications: Google Scholar: 11 papers, 89 citations, H index 5; **WOS: 11 papers, 52 citations, H index 4**

 <https://orcid.org/0000-0002-9268-0896> / ResearcherID: R-5253-2018.

Romero, G., Gonçalves-Souza, T., Roslin, T., Novotny, V., ..., **Mrázová, A.**, ... & Koricheva, J. (2022). Climate variability and aridity modulate the role of leaf shelters for arthropods: a global experiment. *Global Change Biology*, doi: 10.1111/gcb.16150.

Valdés-Correcher, E., Popova, A., Galmán, A., Prinzing A., ... **Mrázová, A.**, ..., & Castagneyrol, B. (2022). Herbivory on the pedunculate oak along urbanization range in Europe: effects of local forest cover and insect feeding guild. *Ecology and Evolution*, 10.1002/ece3.8709.

Pereira, C., Novais, S., Barbosa, M., Negreiros, D., ..., **Mrázová, A.**, ... & Cornelissen, T. (2022). Subtle structures with not-so-subtle functions: a dataset of arthropod constructs and their host plants. *Ecology*, e3639.

Amo, L., **Mrázová, A.**, Saavedra, I. & Sam, K. (2022). Exogenous Application of Methyl Jasmonate Increases Emissions of Volatile Organic Compounds in Pyrenean Oak Trees, *Quercus pyrenaica*. *Biology*, 11(1), 84.

Valdés-Correcher, E., Moreira, X., Augusto, L., Barbaro, ..., **Mrázová, A.**, ... & Dobrosavljević, J. (2021). Search for top-down and bottom-up drivers of latitudinal trends in insect herbivory in oak trees in Europe. *Global Ecology and Biogeography*, 30 (3), 6 51-665.

- Sam, K., Koane, B., Sam, L., **Mrazova, A.**, Segar, S., ... & Novotny, V. (2020). Insect herbivory and herbivores of *Ficus* species along a rain forest elevational gradient in Papua New Guinea. *Biotropica*, 52(2), 263-276.
- Castagneyrol, B., Valdés-Correcher, E., Bourdin, A., Barbaro, L., ... **Mrazova, A.**, ... & Eötvös, C. B. (2020). Can School Children Support Ecological Research? Lessons from the Oak Bodyguard Citizen Science Project. *Citizen Science: Theory and Practice*, 5(1).
- Mrazova, A.**, Sam, K., & Amo, L. (2019). What do we know about birds' use of plant volatile cues in tritrophic interactions? *Current opinion in insect science*, 32, 132-136.
- Mrazova, A.**, & Sam, K. (2019). Exogenous application of methyl jasmonate to *Ficus hahliana* attracts predators of insects along an altitudinal gradient in Papua New Guinea. *C*, 35(4), 157-164.
- Mrazova, A.**, & Sam, K. (2018). Application of methyl jasmonate to grey willow (*Salix cinerea*) attracts insectivorous birds in nature. *Arthropod-Plant Interactions*, 12(1), 1-8.
- Fayle, T. M., Sam, K., **Humlova, A.**, Cagnolo, L., & Novotny, V. (2016). The LifeWebs project: A call for data describing plant-herbivore interaction networks. *Frontiers of Biogeography*, 8(4).

Conferences:

- Mrazova, A.**, Houska Tahadlová, M., Amo, L., Saavedra, I., Řehová, V., Jorge, L. R., Sam K., (2022). Interactions between plants, herbivorous insects, and predators: mechanisms and ecological importance. *The 8th Conference of the Czech Ecological Society (ČSPE), Brno*. Oral presentation.
- Mrazova, A.** (2021). Might birds green an extensive agriculture? *Over the Horizon and for Mutual Acquaintance, Conference of PhD students, University of South Bohemia*. Oral presentation.
- Mrazova, A.**, Sam K. (2017). The friendship between predators and plants alias importance of predatory vertebrates for plant performance. *Ecology across borders, Ghent*. Poster presentation.
- Humlová A.**, Sam K. (2017). Vycítí hmyzožraví ptáci rostliny volající o pomoc? *Zoological days, Brno*. Oral presentation.
- Humlová A.**, Bonny K., Markis P., Sam K. (2016). Tropical birds can smell trees calling for help along an elevational gradient: An experiment with chemically and manually induced herbivory. *Conference of Society for Tropical Ecology*. Oral presentation.

Granted research projects:

- Student Grant Agency of the Faculty of Science**, University of South Bohemia. 2013. Interspecific interactions of short-toed tree creeper and European tree creeper. (PI; 400 EUR)
- Grant Agency of the University of South Bohemia**. 2018 -2019. No. 078/2018/P. Importance of visual and chemical signals in tri-trophic systems. (PI; 13,500 EUR)

Awards:

- Specialist board award** for an excellent work during PhD, Faculty of Science, University of South Bohemia, 2021.
- The 2nd best student presentation** on Conference of PhD students of the department of Zoology, Faculty of Science, University of South Bohemia, 2021.
- Martina Roeselová Memorial Fellowship** for PhD students and postdoctoral researchers caring for preschool children while actively pursuing a career in natural sciences at a university or at a non-university research organization in the Czech Republic, 2021.
- Annual award for the best student's** ethological publication awarded by Czech and Slovak ethological society 2020, 2nd place.
- The 3rd best student presentation** on Conference of PhD students of the department of Zoology, Faculty of Science, University of South Bohemia, 2019.

Teaching, supervising & other scientific experiences:

- Students: University of South Bohemia – 1 Bachelor student defended in 2021
- 4 regular reviews for scientific journals
- 13 reviews for Student Grant Agency of the Faculty of Science, University of South Bohemia
- Teaching at University of South Bohemia: Field ecology practical course, Field ornithology
- Coordinator of audio recording in LIFEPLAN Global Project: <https://www.helsinki.fi/en/projects/lifeplan> 2020 -2025
- Member of the Ornithology Association of Czech Republic, license no. 1152, 2012 – present
- Popularization lectures for children from the science camp organized by the Faculty of Science, University of South Bohemia