

Jonas Trepel

Education

AARHUS UNIVERSITY

PhD Student,

PhD project title: Trophic Complexity and Biodiversity Dynamics
in Novel Ecosystems

Aarhus, DK

Sep 2023 - now

GEORG AUGUST UNIVERSITY GÖTTINGEN & AARHUS UNIVERSITY

International Master of Biodiversity, Ecology and Evolution

(Double Degree program with M.Sc. Biology at Aarhus University and
M.Sc. Biodiversity, Ecology and Evolution at Göttingen University)

Göttingen, DE

Aarhus, DK

Oct 2021 – June 2023

- Thesis title: The impact of wild terrestrial megafauna on ecosystems
with a focus on zoogeochemistry

UNIVERSITY OF HAMBURG

B.Sc. Biology

- Thesis title: An analysis of cervid-browsing in two forests in northern
Germany

Hamburg, DE

Oct 2018 –

Sep 2021

Peer reviewed publications

PDFs available upon request

2025

Kerr, Matthew R., Alejandro Ordonez, Felix Riede, Joe Atkinson, Elena A. Pearce, Maciej Sykut, **Jonas Trepel**, and Jens-Christian Svenning. 2025. "Widespread Ecological Novelty across the Terrestrial Biosphere." *Nature Ecology & Evolution*, March, 1–10. <https://doi.org/10.1038/s41559-025-02662-2>.

Rech, Bent Johann, Robert Buitenwerf, Roberto Ruggiero, **Jonas Trepel**, Matthias Waltert, and Jens-Christian Svenning. 2025. "What Moves Large Grazers? Habitat Preferences and Complementing Niches of Large Herbivores in a Danish Trophic Rewilding Area." *Environmental Management*, April. <https://doi.org/10.1007/s00267-025-02164-8>.

2024

Trepel, Jonas, Elizabeth Le Roux, Andrew J. Abraham, Robert Buitenwerf, Johannes Kamp, Jeppe A. Kristensen, Melanie Tietje, Erick J. Lundgren, and Jens-Christian Svenning. 2024. "Meta-Analysis Shows That Wild Large Herbivores Shape Ecosystem Properties and Promote Spatial Heterogeneity." *Nature Ecology & Evolution*, February. <https://doi.org/10.1038/s41559-024-02327-6>.

Atkinson, Joe, Rachael Gallagher, Szymon Czyżewski, Matthew Kerr, **Jonas Trepel**, Robert Buitenwerf, and Jens-Christian Svenning. 2024. "Integrating Functional Traits into Trophic Rewilding Science." *Journal of Ecology* 112 (5): 936–53. <https://doi.org/10.1111/1365-2745.14307>.

- Barbero-Palacios, Laura, Isabel C. Barrio, Mariana García Criado, Ilona Kater, Matteo Petit Bon, Tiina H. M. Kolari, Ragnhild Bjørkås, **Jonas Trepel**, et al. 2024. “Herbivore Diversity Effects on Arctic Tundra Ecosystems: A Systematic Review.” *Environmental Evidence* 13 (1): 6. <https://doi.org/10.1186/s13750-024-00330-9>.
- Fahimi, Hadi, Mahmood Soofi, Nahid Ahmadi, Ali T. Qashqaei, Hamidreza Heidari, Haaken Bungum, Bent Rech, **Jonas Trepel**, and Matthias Waltert. 2024. “Distribution, Behavior and Diet of the Asiatic Black Bear in Human Modified Landscapes.” *Basic and Applied Ecology* 80 (November):23–30. <https://doi.org/10.1016/j.baec.2024.07.003>.
- Lundgren, Erick J., Juraj Bergman, **Jonas Trepel**, Elizabeth le Roux, Sophie Monsarrat, Jeppe Aagaard Kristensen, Rasmus Østergaard Pedersen, Patricio Pereyra, Melanie Tietje, and Jens-Christian Svenning. 2024. “Functional Traits—Not Nativeness—Shape the Effects of Large Mammalian Herbivores on Plant Communities.” *Science* 383 (6682): 531–37. <https://doi.org/10.1126/science.adh2616>.
- Trepel, Jonas**, Andrew J. Abraham, Erick J. Lundgren, Kristy M. Ferraro, Camilla Fløjgaard, Lars Haugaard, Peter Sunde, et al. 2024. “Zoogeochemistry of a Protected Area: Driven by Anthropogenic Impacts and Animal Behavior.” *Conservation Science and Practice* 6 (5): e13107. <https://doi.org/10.1111/csp2.13107>.

Teaching and Supervision

Course: Geographic information systems (GIS)	2023 & 2024
Course: Biogeography and Macroecology	2024
Course: Wildlife Ecology and Ecosystem Management	2025
Supervision: Josefine Kristensen (Bsc Student)	2025
Supervision: Lasse Esbensen (Bsc Student)	2025

Conferences and Workshops

Zoogeochemistry Workshop	Aarhus, Denmark, 2023
Ecological Dynamics in a Novel Biosphere Conference (Talk)	Aarhus, Denmark, 2024
Waterberg Research Convention (Talk)	Vaalwater, South Africa, 2025
Savanna Science Network Meeting (Talk)	Skukuza, South Africa, 2025

Scholarships and Grants

Master exchange scholarship of DAAD Project liveSciences ³ (6250 €)	2022/2023
Project support by Aage V. Jensen Nature Foundation (3662 €)	2023
Project support by the Bavarian Forest NP (10,000 €)	2023/2024

Public outreach

Radio interview with Deutschlandfunk: “More Biodiversity: the impact of megafauna on ecosystems” (https://www.deutschlandfunk.de/mehr-biodiversitaet-einfluss-der-megafauna-auf-oekosysteme-dlf-beb9bac6-100.html)	Feb 2024
Blog entry: Megafauna, mega-impact: how wild large herbivores shape ecosystems across the globe (Springer Nature Research Communities)	Feb 2024
Press release: “Global study: Wild megafauna shape ecosystem properties” (https://www.eurekalert.org/news-releases/1033938)	Feb 2024

Scientific Services

Reviewer for:

- Global Change Biology
- Journal of Animal Ecology
- Biological Conservation
- Global Ecology and Biogeography
- Global Ecology and Conservation