

List of Publications

Dr. rer. nat. Joana Bergmann

Journal articles (peer reviewed)

- Guerrero-Ramirez N, Mommer L, Freschet GT, Iversen CM, McCormack ML, Kattge J, Poorter H, van der Plas F, **Bergmann J**, Kuyper TW, York LM, ..., Weigelt A. Global Root Traits (GRooT) Database. *Global Ecology and Biogeography* 2020; 00: 1–13
- Bergmann J**, Weigelt A, van der Plas F, Laughlin DC, Kuyper TW, Nathaly Guerrero-Ramirez N, Valverde-Barrantes OJ, Bruelheide H, Freschet GT, Iversen CM, Kattge J, McCormack ML, Meier IC, Rillig MC, Roumet C, Semchenko M, Sweeney CJ, van Ruijven J, York LM, Mommer L. 2020. The fungal collaboration gradient dominates the root economics space in plants. *Science Advances* 6, 27, eaba3756
- Rillig MC, Aguilar-Trigueros C, Anderson I, Antonovics J, Ballhausen M-B, **Bergmann J**, ..., Zhang H. 2020. Myristate and the ecology of AM fungi: significance, opportunities, applications and challenges. *New Phytologist* 227: 1610–1614
- Kattge J, Bönisch G, Díaz S, Lavorel S, Prentice IC, Leadley P, Tautenhahn S, Werner G, ..., **Bergmann J**, ..., Wirth C. 2020. TRY plant trait database - enhanced coverage and open access. *Global Change Biology* 26: 119–188
- Rillig MC, Lehman A, Ryo M, **Bergmann J**. 2019. Shaping up: Toward considering the shape and form of pollutants. *Environmental Science and Technology* 53: 7925–7926
- De Souza Machado AA, Lau CW, Kloas W, **Bergmann J**, Bachelier J, Faltin E, Becker R, Görlich A, Rillig MC. 2019. Microplastics can change soil properties and affect plant performance. *Environmental Science and Technology* 53: 6044–6052
- Bergmann J**, Ryo M, Prati D, Hempel S, Rillig MC. 2017. Roots traits are more than analogues of leaf traits: the case for diaspore mass. *New Phytologist* 216: 1130–1139
- Bergmann J**, Verbruggen E, Heinze J, Xiang D, Chen B, Joshi J, Rillig CM. 2016. The interplay between soil structure, roots, and microbiota as a determinant of plant–soil feedback. *Ecology and Evolution* 6: 7633–7644
- Rillig MC, Aguilar-Trigueros CA, **Bergmann J**, Verbruggen E, Veresoglou SD, Lehmann A. 2015. Plant root and mycorrhizal fungal traits for understanding soil aggregation. *New Phytologist* 205: 1385–1388
- Aguilar-Trigueros CA, Hempel S, Powell JR, Anderson IC, Antonovics J, **Bergmann J**, Cavagnaro TR, Chen B, Hart MM, Klironomos J, Petermann JS, Verbruggen E, Veresoglou SD, Rillig MC. 2015. Branching out: Towards a trait-based understanding of fungal ecology. *Fungal Biology Reviews* 29: 34–41

Antonovics J, **Bergmann J**, Hempel S, Verbruggen E, Veresoglou S, Rillig M. 2015. The evolution of mutualism from reciprocal parasitism: more ecological clothes for the Prisoner's Dilemma. *Evolutionary Ecology* 29: 627–641

Heinze J, **Bergmann J**, Rillig MC, Joshi J. 2015. Negative biotic soil-effects enhance biodiversity by restricting potentially dominant plant species in grasslands. *Perspectives in Plant Ecology, Evolution and Systematics* 17: 227–235

Doctoral thesis

Bergmann J. 2018. Root traits and their effect in plant-soil interactions. Dissertation, DOI: 10.17169/refubium-4480

Selected Conference Proceedings

Talk: **Bergmann J**, Weigelt A, Iversen C, Laughlin DC, McCormack ML, Valverde-Barrantes OJ, van der Plas F, sROOT working group, Mommer L. 2020. The root economics space. Virtual annual meeting of the British Ecological Society.

Talk: **Bergmann J**. 2020. Fine root traits unravel the belowground resource economy of plants. Invited talk at SBES Seminar Series, UCD Dublin.

Talk: **Bergmann J**. 2020. Belowground resource economy of plants. Invited talk at PE&RC graduate school Wageningen, The Netherlands.

Talk: **Bergmann J**, Lachaise T, Barfuss KM, Bretherick E, van Kleunen M, Rillig MC. 2019. The importance of root hairs for belowground plant economy. Annual meeting of the British Ecological Society.

Talk: **Bergmann J**. 2018. Evaluating the power of roots for trait based ecology. Invited talk at iDIV.

Talk: **Bergmann J**. 2017. Hand in hand - root morphological traits and their mediation by arbuscular mycorrhizal fungi. Invited talk at interdisciplinary conference - Nonhuman agents in art, culture and theory.

Talk: **Bergmann J**, Rillig MC. 2017. Revisiting general assumptions about root fineness. Annual meeting of the British Ecological Society.

Talk: **Bergmann J**. 2017. Inter- and intraspecific root trait variability in grassland species. Invited talk at Universität Potsdam.

Poster: **Bergmann J**, Verbruggen E, Rillig MC. 2014. The influence of soil aggregation on plant soil feedback. Symposium New Phytologist Trust.