Contact details

Position	**Full Professor for Experimental Interaction Ecology**
Address	[1]German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Puschstrasse 4, 04103 Leipzig, Germany [2]Institute of Biology, Leipzig University, Puschstrasse 4, 04103 Leipzig, Germany
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WoS ResearcherID I-5932-2012	
Scopus Author ID 22939857600	

Links

Scientific career

Since 2014	**Full Professor (W3) for *Experimental Interaction Ecology***, German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig and Leipzig University
2012 – 2014	Associate Professor (W2) for *Terrestrial Ecology*, Friedrich Schiller University Jena
2012	Habilitation (***Venia Legendi* in Ecology and Zoology**), Georg August University Göttingen
2012	Emmy Noether group leader (funded by DFG), Technical University München
2012	Postdoc in the lab of Prof. Wolfgang W. Weisser, Technical University München
2010 – 2012	Postdoc in the lab of Prof. Peter B. Reich, University of Minnesota (funded by DFG): *Aboveground–belowground interactions in a changing world*
2008 – 2010	Postdoc in the Jena Experiment, Darmstadt University of Technology and Georg August University Göttingen. Subproject *Decomposer Interaction Webs*
2005 – 2008	PhD at the Darmstadt University of Technology under the supervision of Prof. Dr. S. Scheu. Title: *Earthworms in a plant diversity gradient: Direct and indirect effects on plant competition and establishment* in the Jena Experiment funded by the German Research Foundation (DFG, FOR 456) (***summa cum laude***)
2004 – 2005	Diploma thesis: *Invasion of a deciduous forest by earthworms: Changes in soil chemistry, microflora, microarthropods and vegetation*, supervised by Prof. Dr. S. Scheu at the TU Darmstadt, Germany and Prof. Dr. D. Parkinson at the University of Calgary, Canada (*certified biologist* ***with distinction***)
2000 – 2004	Study of Biology at the Darmstadt University of Technology
1999	Abitur at the Martin-Luther Gymnasium Rimbach (final grade 1.0; ***with distinction***)

Prizes, awards, recognition, short-lists

2024 Experimental Interaction Ecology Group short-listed for the ***Best Research Environment Award 2024*** by Die Junge Akademie of the Berlin-Brandenburg Academy of Sciences and Humanities (BBAW) and the German National Academy of Sciences Leopoldina

2024 Offer of Full Professor (W3) for *Animal Ecology*, Free University of Berlin, rejected; counter-offer accepted of Leipzig University

2024 ***Top Scientist*** (discipline: Ecology & Evolution), ***Ecology and Evolution Leader Award 2024***, Research.com

2023 ***PIFI Distinguished Scientist*** Award of CAS President's International Fellowship Initiative

2023 ***iDiv Supervisor Award 2023*** by iDiv

2023 ***Award for outstanding engagement in PhD supervision*** by Leipzig University

2023 Elected Member of the ***National Academy of Sciences Leopoldina***, the National Academy of Germany, Section: Agricultural and Nutritional Sciences

2023 Short-listed for Hamburger Wissenschaftspreis on "One Health" by the Akademie der Wissenschaften in Hamburg

2023 ***Top Scientist*** (discipline: Ecology & Evolution), ***Ecology and Evolution Leader Award 2023***, Research.com

2023 ***Honorary award*** by the city of Fürth (Odenwald) for scientific achievements

2022 ***Top Scientist*** (discipline: Ecology & Evolution), Research.com

2021 ***World Expert in Soil*** (top 0.1%), Expertscape

2021 ***Reuters list of the world's top climate scientists***, Reuters

2021 ***Gottfried Wilhelm Leibniz Prize***, German Research Foundation (DFG)

2020	Selected ***Alexander von Humboldt Scout*** of the Henriette Herz Scouting Programme
2020	***Highly Cited Researcher 2020***, Clarivate
2016	***ERC Starting Grant***, European Research Council
2014	"***Top 40 under 40***", magazine Capital ("*Best of Germany*")
2014	***Heinz Maier Leibnitz Prize***, German Research Foundation
2013	Offer of Full Professor for *Animal Evolution and Ecology* (W3), Technical University München, rejected
2013	Offer of ***Full Professor for Professorship for Experimental Interaction Ecology*** (W3); iDiv/Leipzig University, accepted
2012	Offer of Associate Professor (W2), Technical University München, rejected
2012	Offer of ***Associate Professor for Terrestrial Ecology*** (W2), Friedrich Schiller University Jena, offer accepted
2012	***Emmy-Noether scholarship***, German Research Foundation
2010	***Postdoc research scholarship***, German Research Foundation
2004	*Research scholarship*, German Academic Exchange Service (DAAD)

Commission of trust

2024 –	Member of the Representation Board at iDiv
2024	Chair of the Science Strategy Board at iDiv (7 months)
2024 –	Co-chair of Soil BON; global coordination hub
2023 – 2024	Chair of the Core Center Committee at iDiv, 6 months
2023 –	Elected member of the Gottfried Wilhelm Leibniz Prize selection committee (DFG)
2023 –	Supervising Editor-in-Chief of the iDiv Newsletter
2022 – 2024	Founding member of the *Mental Health Committee* at iDiv
2021 –	Member of the *iDiv Greenhouse Committee*

2021 –	Member of the Fachgremium Bodenbiodiversität at the Nationales Monitoringzentrum zur Biodiversität (NMZB) of the Bundesamt für Naturschutz (BfN)
2021 –	Member of the *Scientific Advisory Board* for the Deep Soil Ecotron (University of Idaho)
2021	Member of the *Strategic Projects & Support Units Committee* at iDiv
2020 –	Chair of the Prize Committee at iDiv
2020 – 2021	Chair of the Science Strategy Board at iDiv, 6 months
2020 –	Member of the International Advisory Board of the Netherlands Plant Eco-phenotyping Centre (NPEC)
2020	Member of the iDiv Speaker Board (Leipzig University Representative, on behalf of Prof. Christian Wirth), 6 months
2019 – 2020	Co-Chair of the Science Strategy Board at iDiv, 6 months
2019 –	Member of the Steering Board of the UFZ Global Change Experimental Facility (GCEF)
2018 – 2024	Permanent member of the Science Strategy Board at iDiv
2018 –	Elected member of the Faculty of Life Sciences, Leipzig University
2015 –	Speaker of the Research Unit of the Jena Experiment
2015 –	Head of the MyDiv Experiment
2014 –	Head of the iDiv Ecotron and Chair of the iDiv Ecotron Board
2014 – 2019	yDiv Board member (graduate school of iDiv)
2012 –	Member of the *Advisory Board* of TUM*mesa*

Editorial boards

2021 –	***Advisory Editorial Board*** at *Journal of Sustainable Agriculture and Environment*
2019 –	***Editor-in-Chief*** at *Soil Organisms*
2014 – 2018	Editor-in-Chief at *Pedobiologia – Journal of Soil Ecology*
2012 – 2013	Subject Editor at *Plant and Soil*
2011 – 2013	Subject Editor at *Biodiversity and Conservation*

Reviewer for scientific journals and foundations

Reviewer/editor of >500 scientific papers and project proposals

Scientific journals: Applied Soil Ecology, Basic and Applied Ecology, Catena, Current Biology, Diversity, Ecology, Ecography, Ecology Letters, Écoscience, Ecosystems, eLife, European Journal of Soil Biology, FEMS Microbiology Letters, Functional Ecology, Global Ecology and Biogeography, ISME Journal, Journal of Applied Ecology, Journal of Ecology, Journal of Vegetation Science, Nature, Nature Climate Change, Nature Communications, Nature Ecology and Evolution, Nature Plants, Oecologia, Oikos, Pedobiologia, Pedosphere, Plant Biology, Plant and Soil, PLoS ONE, Philosophical Transactions of the Royal Society B, Proceedings of the National Academy of Sciences USA, Proceedings of the Royal Society B, Science, Science Advances, Science of the Total Environment, Scientific Reports, Soil Biology and Biochemistry, Soil Organisms, Trends in Plant Science

Foundations: Alexander von Humboldt Foundation, Czech Science Foundation, European Research Council, German Research Foundation, Helmholtz Impulse Fond, National Science Foundation USA, Swiss National Science Foundation

Memberships

Since 2012 Deutscher Hochschulverband (DHV), 2007-2023 Ecological Society of America (ESA), since 2007 Ecological Society of Germany, Austria and Switzerland (GfÖ), since 2014 Full member of the German Centre for Integrative Biodiversity Research iDiv, since 2019 Founding member of Soil BON; Since 2015 Member of Nutrient Network (PI of site ***BadNut*** in Bad Lauchstädt, with Sylvia Haider), since 2015 Member of TreeDivNet (PI of the ***MyDiv*** Experiment), since 2018 Drought-Net (PI of site ***BadDrought*** in Bad Lauchstädt, with Harald Auge), since 2022 BugNet (PI of site ***BadBug*** in Bad Lauchstädt, with Harald Auge, Malte Jochum, Lotte Korell, & Martin Schädler).

Outreach & public relations

Since 2014, the Experimental Interaction Ecology group appeared in 22 TV shows, 36 radio interviews, 339 print articles, 661 online articles, 12 public talks, 4 podcasts and 58 other outreach activities (like open days, public tours etc.). Here you can find recent news.

Papers in peer-reviewed journals (chronologically, date of acceptance)

May 08, 2025: **568 publications in peer-reviewed journals; 41 other publications (publications total: 609); 41,742 citations; Google Scholar h-index 105; i10-index 425; in gray accepted/in press**

2025 [40 papers]

568 Ristok C, Babin D, Bartkowski B, …, **Eisenhauer N***, Tebbe CC*, Xylander WER* (2025) *Towards a comprehensive assessment of soil biodiversity in Germany: status quo, challenges, and policy implications.* ***Soil Organisms***, accepted. *shared senior authorship.

567 Köhler M, Hähn G, Kanitz M, Ferlian O, **Eisenhauer N**, Wubet T, & Bruelheide H (2025) *The effects of tree diversity and neighborhood on phyllosphere fungal communities.* ***Fungal Ecology***, accepted.

566 Kleemann J, Steinhoff-Knopp B, **Eisenhauer N**, Ristok C, Xylander WER, & Burkhard B (2025) *The unexplored links between soil, soil biodiversity, and soil-related ecosystem services.* ***Soil Organisms*** 97: 5-25; https://doi.org/10.14512/9783987263361.

565 Beugnon R, Eisenhauer N, Lochner A, …, & Sünnemann M (2025) *Sustainable land use enhances soil microbial respiration responses to experimental heat stress.* ***Global Change Biology*** 31: e70214; https://doi.org/10.1111/gcb.70214.

564 Chen Q, Blowes SA, Harpole WS, …, **Eisenhauer N**, …, & Chase J (2025) *Local nutrient addition drives plant diversity losses but not biotic homogenization in global grasslands.* ***Nature Communications***, accepted.

563 Ul Haq H, Singavarapu B, Hauer A, **Eisenhauer N**, Ferlian O, Bruelheide H, & Wubet T (2025) *Temperate forest soil microbiomes and their assembly processes are modulated by the interplay of co-existing tree species identity, diversity and their mycorrhizal type.* ***Journal of Sustainable Agriculture & Environment*** 4: e70064; https://doi.org/10.1002/sae2.70064.

562 Bondaruk VF, Xu C, Wilfahrt P, …, **Eisenhauer N**, …, & Hautier Y (2025) *Aridity modulates biomass changes following nutrient addition and extreme drought on globally distributed grasslands.* ***Nature Ecology & Evolution***, accepted.

561 Bartkowski B, **Eisenhauer N**, Glante F, Lachmann C, Römbke J, Rillig MC, Ristok C, Schmidt A, & Babin D (2025) *The options of different actor groups to address drivers of soil biodiversity change.* ***Soil Organisms***, accepted.

560 Zhang P, Seabloom EW, Foo J, …, **Eisenhauer N**, …, & Borer ET (2025) *Dominant species predict plant richness and biomass in global grasslands.* ***Nature Ecology & Evolution***, accepted.

559 Nouwen O, Rineau F, Kohout P, Baldrian P, **Eisenhauer N**, Beenaerts N, Thijs S, Vangronsveld J, & Soudzilovskaia NA (2025) *Towards understanding the impact of mycorrhizal fungal environments on the functioning of terrestrial ecosystems.* ***FEMS Microbiology Ecology***, accepted.

558 Archidona-Yuste A, Ciobanu M, Kardol P, & **Eisenhauer N** (2025) *Divergent alpha and beta diversity trends of soil nematode fauna along gradients of environmental change in the Carpathian Ecoregion.* ***Communications Biology*** 8: 587; https://doi.org/10.1038/s42003-025-07994-0.

557 Ruess L, Kolb S, **Eisenhauer N**, & Ristok C (2025) *Soil biodiversity promotes key ecosystem functions by its complex structure and interactions – state and perspectives.* ***Soil Organisms***, accepted.

556 Hohberg K, Ristok R, **Eisenhauer N**, Tebbe CC, & Scheu S (2025) *Status and trends in soil biodiversity – a national survey of Germany.* ***Soil Organisms***, accepted.

555 Yi H, Ferlian O, Gauzens B, Rebollo R, Scheu S, Amyntas A, Ciobanu M, Potapov A, Salamon J-A, & **Eisenhauer N** (2025) *Belowground energy fluxes determine tree diversity effects on above- and belowground food webs.* ***Current Biology*** 35: 1-3; https://doi.org/10.1016/j.cub.2025.03.034.

554 Gauzens B, Thouvenot L, Srivastava DS, … **Eisenhauer N**, …, & Hines J (2025) *Aggregation and inference in ecological networks: Which networks for which questions?* ***Nature Reviews Biodiversity***, accepted.

553 Fay PA, Gherardi LA, Yahdjian L, … **Eisenhauer N**, …, & Wheeler GR (2025) *Interactions among nutrients govern the global grassland biomass–precipitation relationship.* ***PNAS*** 122: e2410748122; https://doi.org/10.1073/pnas.2410748122.

552 Philip L, Sünnemann M, Schädler M, Blagodatkaya E, Tarkka M, **Eisenhauer N**, Reitz T (2025) *Soil depth shapes the microbial response to land use and climate*

change in agroecosystems. ***Applied Soil Ecology*** 209: 106025; https://doi.org/10.1016/j.apsoil.2025.106025.

551 Nelson RA, Sullivan LL, Hersch-Green EI, … **Eisenhauer N**, …, & Harrison SP (2025) *Forb diversity globally is harmed by nutrient enrichment but can be rescued by large mammalian herbivory.* ***Communications Biology*** 8: 444; https://doi.org/10.1038/s42003-025-07882-7.

550 Beugnon R, Albert G, Hähn G, …, & **Eisenhauer N** (2025) *Improving forest ecosystem functions by optimizing tree species spatial arrangement.* ***Nature Communications***, accepted.

549 Dieskau J, Hensen I, Eisenhauer N, Lachmuth S, Durka W, & Auge H (2025) Plant-soil feedback in European grasslands is phylogenetically independent but affected by plant species origin. Journal of Plant Ecology, accepted.

548 González AL, Merder J., Andraczek K, …, **Eisenhauer N**, …, Dézerald O (2025) *Nitrogen availability drives global-scale geographical patterns in animal and plant stoichiometry.* ***Scientific Data***, accepted.

547 Schnabel F, Guillemot J, Barry KE, …, **Eisenhauer N**, …, & Potvin C (2025) *Tree diversity increases carbon stocks and fluxes above- but not belowground in a tropical forest experiment.* ***Global Change Biology*** 31: e70089; https://doi.org/10.1111/gcb.70089.

546 Albracht C, Buscot F, **Eisenhauer N**, Gebler A, Herrmann S, Schmidt A, Tarkka M, & Goldmann K (2025) *Invertebrate decline has minimal effects on oak-associated microbiomes.* ***Environmental Microbiology*** 27: e70051; https://doi.org/10.1111/1462-2920.70051.

545 Schnabel F, Beugnon R, Yang B, …, **Eisenhauer N**, …, Ma K, & Bruelheide H (2025) *Tree diversity increases forest temperature buffering via enhancing canopy density and structural diversity.* ***Ecology Letters*** 28: e70096; https://doi.org/10.1111/ele.70096.

544 Bassi L , Hennecke J, …, **Eisenhauer N**, …, & Weigelt A (2025) *Plant species richness promotes the decoupling of leaf and root defence traits while species-specific responses in physical and chemical defences are rare.* ***New Phytologist*** 246: 729–746; doi: 10.1111/nph.20434.

543 Spohn M, Bagchi S, … **Eisenhauer N**, …, & Seabloom EW (2025) *Interactive and unimodal relationships between plant biomass, abiotic factors, and plant*

diversity in global grasslands. ***Communications Biology*** 8: Article number 97; https://doi.org/10.1038/s42003-025-07518-w.

542 Zhou G, **Eisenhauer N**, Du Z, Lucas-Borja ME, Zhai K, Berdugo M, Duan H, Wu H, Liu S, Revillini D, Sáez-Sandino T, Chai H, Zhou X, & Delgado-Baquerizo M (2025) *Fire-driven disruptions in global soil biochemical interactions.* ***Nature Communications*** 16: Article number 1190; https://doi.org/10.1038/s41467-025-56598-z.

541 Buzhdygan OY, Tietjen B, Petermann JS, **Eisenhauer N**, Hines J, Schmid B, Baldauf S, Ebeling A, Scherber C, Buchmann N, Borrett SR, de Kroon H, Weisser WW, & Meyer ST (2025) *Plant diversity facets differentially affect energy dynamics in grasslands depending on trophic contexts.* ***Ecological Monographs*** 95; e70004; https://doi.org/10.1002/ecm.70004.

540 Amyntas A, Gauzens B, Ciobanu M, …, **Eisenhauer N**, & Brose U (2025) *Shared community history strengthens plant diversity effects on below-ground multitrophic functioning.* ***Journal of Animal Ecology*** 94: 555-565; https://doi.org/10.1111/1365-2656.14241.

539 Madaj A-M, Huang Y, Ebeling A, Ertel L, …, & **Eisenhauer N** (2025) *JenaTron: An experimental approach to study the effects of plant history and soil history on grassland ecosystem functioning.* ***Journal of Visualized Experiments*** 117: e67496, doi:10.3791/67496.

538 Augusto L, Borelle R, …, **Eisenhauer N**, …, & Charru M (2025) *Widespread slow growth of acquisitive tree species.* ***Nature*** 640: 395–401; https://www.nature.com/articles/s41586-025-08692-x.

537 Bonfanti J, Potapov, …, **Eisenhauer N**, …, & Berg MP (2025) *Linking effect traits of soil fauna to processes of organic matter transformation.* ***Functional Ecology*** 39: 446-461; https://doi.org/10.1111/1365-2435.14720.

536 Wu D, Du E, **Eisenhauer N**, Mathieu J, & Chu C (2025) *Global soil engineering effects of termites, ants, and earthworms on ecosystem functions.* ***Nature*** 640: 120–129; https://www.nature.com/articles/s41586-025-08594-y.

535 Asato AEB, Ebeling A, Wirth C, **Eisenhauer N**, & Hines J (2025) *Seasonal shifts in plant diversity effects on aboveground-belowground phenological synchrony.* ***Journal of Ecology*** 113: 472-484; https://doi.org/10.1111/1365-2745.14470.

534 Pigot AL, Dee L, Richardson AJ, Cooper D, **Eisenhauer N**, Gregory RD, …, & Haegeman B (2025) *Macroecological rules predict how biomass scales with*

species richness in nature. ***Science*** 387: 1272-1276; https://www.science.org/doi/10.1126/science.adq3278.

533 Farwig N, Sprenger PP, …, **Eisenhauer N**, …, & Mosbrugger V (2025) *Identifying major factors for success and failure of conservation programs in Europe.* ***Environmental Management*** 75: 425–443; https://doi.org/10.1007/s00267-024-02086-x.

532 Ul Haq H, …, **Eisenhauer N**, … & Wubet T (2024) The interactive effect of tree mycorrhizal type, mycorrhizal type mixture and tree diversity shapes rooting zone soil fungal communities in temperate forest ecosystems. ***Functional Ecology****;* https://doi.org/10.1111/1365-2435.14651.

531 Wu M, Yang X, Reitz T, Blagodatskaya E, **Eisenhauer N**, Schädler M, & Schlüter S (2025) *Microhabitat properties explain variations in soil nematode communities across climate conditions in cropland, but not in grassland.* ***Soil Biology & Biochemistry*** 201: 109657; https://doi.org/10.1016/j.soilbio.2024.109657.

530 Hennecke J, Bassi L, Albracht C, Amyntas A, Bergmann J, **Eisenhauer N**, Fox A, Heimbold L, Heintz-Buschart A, Kuyper TW, Lange M, de Souza YPA, Rai A, Solbach MD, Mommer L, & Weigelt A (2025) *Plant species richness and the root economics space drive soil fungal communities.* ***Ecology Letters*** 28: e70032; https://doi.org/10.1111/ele.70032.

529 Asato AEB, Ebeling A, Wirth C, **Eisenhauer N**, & Hines J (2025) *Positive plant diversity effects on soil detritivore feeding activity and stability increase with ecosystem age.* ***Soil Biology & Biochemistry*** 200: 109637; https://doi.org/10.1016/j.soilbio.2024.109637.

2024 [73 papers]

528 Amyntas A, **Eisenhauer N**, Scheu S, Klarner B, …, & Brose U (2024) *Soil community history strengthens belowground multitrophic functioning across plant diversity levels in a grassland experiment.* ***Nature Communications*** 5: 10029; https://doi.org/10.1038/s41467-024-54401-z.

527 Morton JA, Arnillas CA, Biedermann L, Borer ET, Brudvig LA, Buckley YM, …, **Eisenhauer N**, …, & Hersch-Green EI (2024) *Genome size influences plant growth and biodiversity responses to nutrient fertilization in diverse grassland*

communities. ***Plos Biology*** 22(12): e3002927; https://doi.org/10.1371/journal.pbio.3002927.

526 Stein G, Vemuri SK, Huang Y, Ebeling A, **Eisenhauer N**, Shadaydeh M, & Denzler J (2024) *Investigating the effects of plant diversity on soil thermal diffusivity using physics-informed neural networks.* ***Proceedings of the AAAI2024***, ICLR 2024 Workshop on AI4Differential Equations In Science; https://openreview.net/forum?id=7wKTS923Uc.

525 Xu S, **Eisenhauer N**, Zeng Z, Mo X, Ding Y, Lai DYF, & Wang J (2024) *Drivers organic recovery under forest restoration: a global meta-analysis.* ***Carbon Research*** 3: 80; https://doi.org/10.1007/s44246-024-00165-6.

524 Scheu S, Cameron E, **Eisenhauer N**, Phillips HRP, Römbke J, Rutgers M, Schäfer RB, & Entling MH (2024) Typical earthworm assemblages of major ecosystem types across Europe. ***European Journal of Soil Science*** 75: e13584; https://doi.org/10.1111/ejss.13584.

523 Hutengs C, **Eisenhauer N**, Schädler M, Cesarz S, Lochner A, Seidel M, & Vohland M (2024) Enhanced VNIR and MIR proximal sensing of soil organic matter and PLFA-derived soil microbial properties through machine learning ensembles and external parameter orthogonalization. ***Geoderma*** 450: 117037; https://doi.org/10.1016/j.geoderma.2024.117037.

522 Sünnemann M, …, & **Eisenhauer N** (2024) Sustainable land use enhances microbial and herbivore controls in soil food webs in current and future climates. ***Global Change Biology*** 30: e17554; https://doi.org/10.1111/gcb.17554.

521 Farfan M, Bach EM, **Eisenhauer N**, Franco A, Fraser TD, Potapov A, Ramirez KS, Vilonen L, & Wepking C (2024). Looking to the future of soil biodiversity: the legacy of Diana Wall. ***Soil Organisms*** 96(3): 145–150; https://doi.org/10.25674/434.

520 Farfan M, Potapov A & **Eisenhauer N** (2024). Rapid publication and broad communication of Soil Organisms. ***Soil Organisms*** 96(3): I; https://doi.org/10.25674/.

519 Knight CG, …, **Eisenhauer N**, …, & de Vries, FT (2024). Soil microbiomes show consistent and predictable responses to extreme events across climates. ***Nature*** 636: 690–696; https://doi.org/10.1038/s41586-024-08185-3.

518 Shi B, …, **Eisenhauer N**, …, & Sun W (2024). Aridity drives the response of soil total and particulate organic carbon to drought in temperate grasslands and shrublands. ***Science Advances*** 10: eadq2654; .

517 Qun L, **Eisenhauer N**, Scheu S, Reitz T, & Schädler M (2024) Grasslands support more diverse and resilient earthworm communities to climate change than croplands in Central Europe. ***Agriculture, Ecoysystems and Environment*** 377: 109259; https://doi.org/10.1016/j.agee.2024.109259.

516 Kattenborn T, …, **Eisenhauer N**, & Dehcant B (2024) Temporal dynamics in vertical leaf angles can confound vegetation indices widely used in Earth observations. ***Communications Earth & Environment*** 5: 550; https://doi.org/10.1038/s43247-024-01712-0.

515 Romera PJ, Wallace, KJ, McCarthy JK, Rai B, Mitchell G, **Eisenhauer N**, Lusk SH, & Barnes AD (2024) Ecological succession shapes size–density scaling relationships of trees and soil invertebrates. ***Functional Ecology*** 38: 2081-2315; https://doi.org/10.1111/1365-2435.14636.

514 Zhou G, **Eisenhauer N**, …, & Delgado-Baquerizo M (2024) Resistance of ecosystem services to global change weakened by increasing number of environmental stressors. ***Nature Geoscience***: 1–7; https://doi.org/10.1038/s41561-024-01518-x.

513 Romero F, …, **Eisenhauer N**, …, & van der Heijden M (2024) Soil health is sdassociated with higher primary productivity across Europe. ***Nature Ecology & Evolution*** 8: 1847–1855; https://doi.org/10.1038/s41559-024-02511-8.

512 Eisenhauer N, …, & Isbell F (2024) The multiple-mechanisms hypothesis of biodiversity–stability relationships. ***Basic and Applied Ecology*** 79: 153-166; https://doi.org/10.1016/j.baae.2024.07.004.

511 Lipoma L, …, **Eisenhauer N**, …, & Bruelheide H (2024) No general support for functional diversity enhancing resilience across terrestrial plant communities. ***Global Ecology and Biogeography*** 33: e13895; https://doi.org/10.1111/geb.13895.

510 Guerra CA, …, **Eisenhauer N**, …, & Ristok C (2024) Foundations for a national assessment of soil biodiversity. ***Journal of Sustainable Agriculture and Environment*** 3: *e12116; https://doi.org/10.1002/sae2.12116.*

509 Díaz-Martínez, …, **Eisenhauer N**, …, & César Plaza (2024) Vulnerability of mineral-associated soil organic carbon to climate across global drylands. ***Nature Climate Change*** 14: 976-982; https://doi.org/10.1038/s41558-024-02087-y.

508 Li Y, …, **Eisenhauer N**, … & Liu X (2024) Plant diversity enhances ecosystem multifunctionality via multitrophic diversity. ***Nature Ecology & Evolution*** 8; 2037–2047; https://doi.org/10.1038/s41559-024-02517-2.

507 MacDougall AS, …, **Eisenhauer N**, …, & Seabloom EW (2024) Widening global variability in grassland biomass since the 1980s. ***Nature Ecology & Evolution*** 8: 1877–1888; https://doi.org/10.1038/s41559-024-02500-x .

506 Pinheiro Alves de Souza Y, …, Eisenhauer N, …, & Schulz S (2024) The effect of successive summer drought periods on bacterial diversity along a plant species richness gradient. ***FEMS Microbiology Ecology*** 100: fiae096; https://doi.org/10.1093/femsec/fiae096.

505 Phillips HRP, Cameron EK, **Eisenhauer N**, …, & Beaumelle L (2024) Global changes and their environmental stressors have a significant impact on soil biodiversity—A meta-analysis. ***iScience*** 27: 110540; https://doi.org/10.1016/j.isci.2024.110540.

504 Dieskau J, Hensen I, **Eisenhauer N**, Gaberle I, Durka W, Lachmuth S & Auge H (2024) Phylogenetic relationships and plant life stage but not biogeographic history mediate priority effects of European grassland plants. ***Journal of Ecology*** 112: 2007-2017; https://doi.org/10.1111/1365-2745.14373.

503 Jing X, …, **Eisenhauer N**, …, Van Meerbeek K (2024) Leaf isotopes reveal tree diversity effects on the functional responses to the pan-European 2018 summer drought. ***New Phytologist*** 243: 1312-1328; https://doi.org/10.1111/nph.19931.

502 Eisenhauer N, Vogel C, Domeignoz Horta LA, Bonato Asato A, Janda Z, Cesarz S (2024) Plant diversity effects on soil multistability. ***Research Ideas and Outcomes*** 10: e127123; https://doi.org/10.3897/rio.10.e127123.

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(X030) Müller J, Scherer-Lorenzen M, Ammer C, **Eisenhauer N**, Seidel D, Schuldt B, Biedermann P, Schmitt T, Kuenzer C, Wegmann M, Cesarz S, Peters M, Feldhaar H, Steffan-Dewenter I, Claßen A, Bässler C, von Oheimb G, Fichtner A, Thorn S, Weisser W (2021) *BETA-FOR: Enhancing the structural diversity between patches for improving multidiversity and multifunctionality in production forests. Proposal for the first phase (2022-2026) of the DFG Research Unit FOR 5375/1.* Fabrikschleichach (DOI: 10.25972/OPUS-29084)

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(X028) Pörtner HO, Scholes RJ, Agard J, Archer E, Arneth A, Bai X, Barnes D, Burrows M, Chan L, Cheung WL, Diamond S, Donatti C, Duarte C, **Eisenhauer N**, Foden W, Gasalla MA, Handa C, Hickler T, Hoegh-Guldberg O, Ichii K, Jacob U, Insarov G, Kiessling W, Leadley P, Leemans R, Levin L, Lim M, Maharaj S, Managi S, Marquet PA, McElwee P, Midgley G, Oberdorff T, Obura D, Osman E, Pandit R, Pascual U, Pires APF, Popp A, Reyes-García V, Sankaran M, Settele J, Shin YJ, Sintayehu DW, Smith P, Steiner N, Strassburg B, Sukumar R, Trisos C, Val AL, Wu J, Aldrian E, Parmesan C, Pichs-Madruga R, Roberts DC, Rogers AD, Díaz S, Fischer M, Hashimoto S, Lavorel S, Wu N, Ngo HT (2021) *IPBES-IPCC co-sponsored workshop report synopsis on biodiversity and climate change*. ***Zenodo***, DOI:10.5281/zenodo.4782538.

(X027) Pe'er G, Lakner S, Seppelt R, Bezák P, Bonn A, Concepción ED, Creutzig F, Daub C-H, Díaz M, Dieker P, Eisenhauer N, Hagedorn G, Hansjürgens B, Harrer-Puchner G, Herzon I, Hickler T, Jetzkowitz J, Kazakova Y, Kindlmann P, Kirchner M, Klein A-M, Linow S, Lomba Â, López-Bao JV, Metta M, Morales MB, Moreira F, Mupepele A-C, Navarro A, Oppermann R, Rac I, Röder N, Schäfer M, Sirami C, Streck C, Šumrada T, Tielbörger K, Underberg E, Wagener-Lohse G, & Baumann F (2020) The EU's Common Agriculture Policy and Sustainable Farming: A statement by scientists. ***Zenodo***, http://doi.org/10.5281/zenodo.4311314.

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(X025) FAO, ITPS, GSBI, SCBD and EC. 2020. *State of knowledge of soil biodiversity - Status, challenges and potentialities*, Report 2020. Rome, FAO. **https://doi.org/10.4060/cb1928en** (**Eisenhauer N** Coordinating Lead Author; Lead Author of *Chapter 2. Global diversity & distribution of soil biodiversity*; Contributing Author of *Chapter 4. Threats to soil biodiversity - global and regional trends*).

(X024) Phillips HRP, Cameron EK, **Eisenhauer N** (2020) *Earthworms of the world.* ***Frontiers for Young Minds*** 9: 547660, doi: 10.3389/frym.2021.547660.

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(X021) Jochum M & **Eisenhauer N** (2020) *How introduced earthworms alter ecosystems.* ***Frontiers for Young Minds*** 8: article 534345. doi: 10.3389/frym.2020.534345.

(X020) Sünnemann M, Siebert J, **Eisenhauer N** (2020) *Double whammy for life in soil? The effects of drought and fertilizer use.* ***Frontiers for Young Minds*** 8: article 547630, doi: 10.3389/frym.2020.547630.

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(X018) Meyer S and **Eisenhauer N** (2020) *Artenverlust schmälert Ökosystemleistungen – Ökologische Experimente zeigen die Bedeutung von Artenvielfalt für Ökosystemleistungen*. ***Zoll+*** 36: 64-67.

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(X015) Eisenhauer N and Guerra CA (2019) *Mapa mundial de los nematodos del suelo*. Investigación y Ciencia (spanish version of Scientific American and part of Springer Nature Group).

(X014) Gottschall F and **Eisenhauer N** (2019) *Der Blick unter den Tellerrand: Reicht es nur zu schützen, was wir sehen?* ***Gesellschaft für Biologische Systematik Newsletter*** 36: 22-23.

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(X012) Türke M and **Eisenhauer N** (2018) Paradigmenwechsel: Von Klimakammern zu Biodiversitätskammern. ***Nachrichten der GfÖ***, Juni 2018, 9-11.

(X011) Eisenhauer N (2018) *Artenverlust schmälert Ökosystemleistungen*. ***Ökologie & Landbau*** 2|2018: 50-51.

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(X009) Cesarz S and **Eisenhauer N** (2016) *Oberirdisch-unterirdische Interaktionen.* ***Acta Academiae Scientiarum*** 15: 145-148.

(X008) Kulmatiski A, Hines J, **Eisenhauer N** (2014) *Soil organism effects on grassland production and diversity*. In: Grasslands: Habitat Management, Impact of Plant Diversity and Conservation Strategies (Editors: Mariotte P and Kardol P), NOVA Publisher, New York.

(X007) Eisenhauer N and Stefan Hotes (2012) *DAAD Science Tour zu Biodiversität und Klimawandel*. ***Nachrichten der GfÖ***, Dezember 2012, 16-19.

(X006) Eisenhauer N (2011) *Aboveground–belowground interactions in a changing world*. Habilitation thesis, Georg-August-University Göttingen, Germany.

(X005) Asshoff R, Fricke A and **Eisenhauer N** (2010) *Regenwurm ist nicht gleich Regenwurm – Ein Experiment zur Verdeutlichung der unterschiedlichen Ökologie von Regenwürmern.* ***Praxis der Naturwissenschaften Biologie in der Schule***.

(X004) Eisenhauer N and Scheu S (2009) *Experimenting with earthworms in the field: The method and impacts of earthworms on the diversity-ecosystem*

functioning relationship. ***Berichte der Deutschen Bodenkundlichen Gesellschaft***, Tagungsbeitrag zu: Workshop Kommission III „Bodenökologie und Bodenbiologie“ der DBG; Titel der Tagung: Experimenting with earthworms (Trier), http://www.dbges.de.

(X003) Eisenhauer N (2008) *Earthworms in a plant diversity gradient: Direct and indirect effects on plant competition and establishment*. PhD thesis (***summa cum laude***), Darmstadt University of Technology, Germany.

(X002) Eisenhauer N and Scheu S (2005) *Invasion europäischer Lumbriciden in einen kanadischen Espenwald: Auswirkungen auf Bodenchemie, Mikroflora, Bodenmesofauna und Vegetation*. ***Mitteilungen der Deutschen Bodenkundlichen Gesellschaft*** 107: 7-8.

(X001) Eisenhauer N (2005) *Invasion europäischer Lumbriciden in einen kanadischen Espenwald: Auswirkungen auf Vegetation, Bodenmesofauna, Mikroflora und Bodenchemie*. Diploma thesis (***with distiction***), Darmstadt University of Technology, Germany.

Grants

2025 Travel funds for networking with colleagues in China (Changchun, Xiamen, Beijing) by the Alexander von Humboldt Foundation (~1,500 €)

2024 Co-PI of the sDiv working group „*Towards a synthesis in soil fauna macroecology* (sMacroS)“ at the German Centre for Integrative Biodiversity Research (iDiv); Workshop Organizer, with Anton Potapov (~56,600 €)

2024 PI of the project „*Seeds for saplings: collaborative research in MyDiv*“ funded by the Seed Funds Initiative of iDiv (with Christian Wirth & Alexandra Weigelt; ~13,600 €)

2024 Co-PI in the Pro-Excellence-Initiative „*Breathing Nature*“, funded by the Sächsische Aufbaubank – Förderbank – (SAB), Sächsisches Staatsministerium für Wissenschaft, Kultur und Tourismus (with Christian Wirth, Hannes Feilhauer, & Alexandra Weigelt; ~425,000 €)

2023 PI in the DFG Research Training Group (RTG 2930) *Economics of Connected Natural Commons: Atmosphere and Biodiversity*

(ECO-N), in the Interdisciplinary Collaborative Project *Soils* (~333,450 €; with Bartosz Bartkowski; 2024-2030)

2023 PI in the Jena Experiment (FOR 5000-2), *Subproject Z1: Central Coordination*, funded by the German Research Foundation, Ei 862/25-2 (498,048 €; with Anne Ebeling, Gerd Gleixner, Christiane Roscher & Alexandra Weigelt)

2023 PI in the Jena Experiment (FOR 5000-2), *Subproject Z2: Synthesis and Database*, funded by the German Research Foundation, Ei 862/39-1 (256,800 €; with Anne Ebeling, Anna Heintz-Buschart & Holger Schielzeth)

2023 PI in the Jena Experiment (FOR 5000-2), *Subproject 07: Soil multistability*, funded by the German Research Foundation, Ei 862/24-2 (278,658 €; with Simone Cesarz & Cordula Vogel)

2023 ***Speaker of the Jena Experiment (FOR 5000-2)***, *Coordination* funds, funded by the German Research Foundation, Ei 862/23-2 (176,831 €)

2023 Follow-up sDiv workshop at German Centre for Integrative Biodiversity Research (iDiv); *sOilFauna: How human activities impact soil macrofauna communities and how it relates to primary productivity? A global synthesis*. Workshop Organizer, with Dr. Jérôme Mathieu (~10,000 €)

2023 Co-PI in the project *BiodivGesundheit: Biodiversity, mental health and well-being: psychological mechanisms and moderators of a complex relationship (BIOWELL)*, funded by the BMBF (~118.000 €, with Katja Liebal, Vera Denzer, Immo Fritsche, Ute Kunzmann, Martin Quaas, Ingmar Staude, Christian Wirth & Antje Hutschenreuther)

2023 Co-PI in the Pro-Excellence-Initiative „*Breathing Nature*“, funded by the Sächsische Aufbaubank – Förderbank – (SAB), Sächsisches Staatsministerium für Wissenschaft, Kultur und Tourismus (with Christian Wirth, Hannes Feilhauer, & Alexandra Weigelt; ~425,000 €).

2023 PI of the proposal “Internationale wissenschaftliche Veranstaltung: „52. Tagung der Gesellschaft für Ökologie (GfÖ): “*Die Zukunft der*

Biodiversität - Grenzen von Taxa, Bereiche und Skalen überwinden“, funded by the German Research Foundation, Ei 862/38-1 (30,000 €).

2023 PI in the project SP7 - *The role of tree-nematode interactions in the acclimation and adaptation of trees* in the DFG Research Unit PhytOakmeter: Using clonal oak phytometers to unravel acclimation and adaptation mechanisms of long-lived forest tree holobionts to ecological variations and climate change, funded by the German Research Foundation, Ei 862/37-1 (with Dr. Simone Cesarz and Dr. Stephanie Jurburg; ~195,000 €; first funding phase)

2022 PI in the project *Functional diversity of soil organisms* in the International Research Training Group TreeDì *Tree Diversity Interactions: The role of tree-tree interactions in local neighbourhoods in Chinese subtropical forests* (with Dr. Simone Cesarz; German Research Foundation; ~260,000 €; second funding phase)

2022 PI in the Research Unit *Enhancing the structural diversity – BETA-FOR* (FOR 5375), Subproject 04: *Soil biodiversity and functioning*, funded by the German Research Foundation, Ei 862/36-1 (48,200 €; with Simone Cesarz)

2022 PI in the Research Unit *Enhancing the structural diversity – BETA-FOR* (FOR 5375), *Subproject Z: Scientific coordination, synthesis, site and data management*, funded by the German Research Foundation, Ei 862/35-1 (133,446 €; with Christian Ammer, Jörg Müller, Michael Scherer-Lorenzen)

2021 sDiv workshop at German Centre for Integrative Biodiversity Research (iDiv); sOilFauna: How human activities impact soil macrofauna communities and how it relates to primary productivity? A global synthesis. Workshop Organizer, with Dr. Jérôme Mathieu (~40,000 €)

2021 PI in the German Centre for Integrative Biodiversity Research (iDiv) (3 years); with other 24 PIs, funded by the German Research Foundation (FTZ 118; 34,158,300 €)

2021 PI of the project *Illuminating biodiversity changes in the 'Black Box'*, funded by the German Research Foundation, Ei 862/31-1 (268,449 €; 3-year postdoc position)

2021 ***Gottfried Wilhelm Leibniz Prize*** 2021 by the German Research Foundation (2,500,000 €)

2020 Co-PI in the project *Detection and attribution of changes in soil moisture and temperature as affected by plant diversity and climate*, funded by the iDiv Flexpool (~166,400 €; lead PI: Joachim Denzler, other co-PIs involved: Maha Shadaydeh, Anne Ebeling, Yuanyuan Huang; 3-year PhD position)

2020 Co-PI in the project *Diversity and scenario modelling of molecular markers of plant pathogens in plant, litter and soil metagenomes*, funded by the iDiv Flexpool (~168,000 €; lead PI: François Buscot; other co-PIs involved: Anna Heintz-Buschart, Carlos Guerra, Kirsten Küsel; 2-year postdoc position)

2020 Co-PI in the project *Using the new functional framework for root traits (Root Economics Space) to predict soil-borne fungal communities in grasslands (RESfun)*, funded by the iDiv Flexpool (~167,000 €; lead PIs: Alexandra Weigelt, Liesje Mommer; other co-PIs involved; 4-year PhD position)

2020 PI in the German Centre for Integrative Biodiversity Research (iDiv) (1 year); with other 24 PIs, funded by the German Research Foundation (FTZ 118, 11,110,000 €)

2019 PI in the project *Microbial diversity-ecosystem function relationships across environmental gradients*, funded by the German Research Foundation, Ei 862/27-1 (40,434 €; with Anna Heintz-Buschart, François Buscot, Kirsten Küsel & Carl-Eric Wegner; total amount funded: 202,170 €)

2019 Co-PI in the Jena Experiment (FOR 5000-1), *Subproject 06: Multi-trophic energy fluxes in soil food webs along plant diversity–productivity gradients*, funded by the German Research Foundation, Ei 862/26-1 (64,260 €; with Ulrich Brose & Stefan Scheu)

2019 PI in the Jena Experiment (FOR 5000-1), *Subproject Z: Central Coordination*, funded by the German Research Foundation, Ei 862/25-1 (470,639 €; with Anne Ebeling, Gerd Gleixner, Christiane Roscher & Alexandra Weigelt)

2019 PI in the Jena Experiment (FOR 5000-1), *Subproject 04: Plant diversity, plant history, and soil history effects on the temporal dynamics of plant and soil activity*, funded by the German Research Foundation, Ei 862/24-1 (117,540 €; with Jes Hines & Christian Wirth)

2019 ***Speaker of the Jena Experiment (FOR 5000-1)***, *Coordination* funds, funded by the German Research Foundation, Ei 862/23-1 (288,950 €)

2019 Co-PI in the project *Illuminating the dark side of restoration: Soil food web reassembly in regenerating forests* (with Dr. Andrew Barnes and others), funded by The Marsden Fund Council, New Zealand, Proposal No.: 18-UOW-087; Contract No.(s): UOW1803 ($ 300,000 for 2019-2022)

2019 PI of the project *Invasive earthworm effects on plant functional traits and diversity*; funded by the German Research Foundation, Ei 862/18-1 (234,926 €)

2018 PI in the project *Global soil biodiversity and ecosystem function dynamics* in the Postdoc Flexible Pool Call 2018 of the German Centre for Integrative Biodiversity Research (iDiv); ~160,000 € for a 2-year postdoc position)

2018 Co-PI in the project *Global soil biodiversity and ecosystem function dynamics* in the Fast-track Flexible Pool Call 2018 of the German Centre for Integrative Biodiversity Research (iDiv); 7,500 €)

2018 PI in the project *Functional diversity of soil organisms* in the International Research Training Group TreeDì *Tree Diversity Interactions: The role of tree-tree interactions in local neighbourhoods in Chinese subtropical forests* (with Dr. Simone Cesarz; German Research Foundation; 260,045 €; first funding phase)

2016 Co-PI in the project *Soil microbial community assessment with portable mid-infrared and visible near-infrared spectroscopy* (PI: Prof. Michael Vohland; FlexPool funding in the German Centre for Integrative Biodiversity Research (iDiv); ~110,000 €)

2016 Experimental infrastructure funding for the MyDiv experiment; funded by German Centre for Integrative Biodiversity Research ((iDiv); ~30,000 €)

2016 Experimental infrastructure funding for the iDiv Ecotron facility; funded by the German Centre for Integrative Biodiversity Research ((iDiv); ~93,000 €)

2016 PI in the German Centre for Integrative Biodiversity Research (iDiv) (4 years); with other 24 PIs, funded by the German Research Foundation (FTZ 118, ~35,500,000 €)

2016 sDiv workshop at German Centre for Integrative Biodiversity Research (iDiv) and position for synthesis postdoc (2 years), *sWorm*, Workshop Organizer, with Dr. Erin Cameron (~165,000 €)

2016 ***ERC Starting Grant*** funded by the European Research Council, Ecosystem responses to exotic earthworm invasion in northern North American forests (~1,500,000 €)

2015 PI in the Jena Experiment (FOR 1451), *Subproject Z: Coordination*, funded by the German Research Foundation, Ei 862/5-3 (196,929 €)

2015 ***Speaker of the Jena Experiment (FOR 1451)***, *Coordination* funds, funded by the German Research Foundation, Ei 862/10-1 (136,569 €)

2015 PI in the Jena Experiment (FOR 1451), *Subproject 6: Consumer community structure and ecosystem functioning*, funded by the German Research Foundation, Ei 862/12-1 (97,310 €)

2015 PI in the Jena Experiment (FOR 1451), *Subproject 7: Context-dependence of biodiversity effects and real-world perspective*, funded by the German Research Foundation, Ei 862/13-1 (24,237 €)

2015 Postdoc funding (1 year) for scientific coordination of the Ecotron facility; funded by German Centre for Integrative Biodiversity Research (iDiv); ~64,000 €)

2014 ***Heinz Maier Leibnitz Prize*** by the German Research Foundation (20,000 €)

2014 sDiv workshop at the German Centre for Integrative Biodiversity Research (iDiv) *Biodiversity Changes*, Workshop Organizer, with Prof. Dr. Forest Isbell (travel funds; ~20,000 €)

2014 PI in *Tracing the spread of European earthworms into North America using molecular markers and field experiments* with Dr. Ina Schaefer; funded by the German Research Foundation, Ei 862/9-1 (~60,000 €)

2013 Postdoc funding (1 year) for synthesis work on the consequences of flood on plant communities differing in diversity; funded by the German Centre for Integrative Biodiversity Research (iDiv); postdoc funding plus travel funds; ~68,000 €)

2013 sDiv workshop at the German Centre for Integrative Biodiversity Research (iDiv), *Plant diversity effects on ecosystem resilience and recovery from pertubations*, PI with Dr. Forest Isbell (travel funds plus 9 months postdoc funding; ~66,000 €)

2013 PI in the Jena Experiment, *Subproject Z: Coordination*, funded by the German Research Foundation, Ei 862/5-2 (1,579,655 €)

2013 PI in the Jena Experiment, *Subproject 2: Plant–soil fauna interactions*, funded by the German Research Foundation, Ei 862/3-2 (155,453 €); Co-PI with Prof. S. Scheu (~150,000 €)

2012 ***Emmy Noether group*** funded by the German Science Foundation, Ei 862/2, *Aboveground–belowground interactionsdrive the relationship between plant diversity and ecosystem function* (877,440 €; for 5 years, 3 PhDs)

2011 National Science Foundation, USA, *The complexity of global change- interactive effects of warming, water availability, CO_2 and N on grassland ecosystem function* (US$ 950,839; with Prof. P.B. Reich, Prof. Dr. S. Hobbie, Prof. Dr. R. Montgomery, Dr. R. Rich)

2011 Department of Energy, USA, *Climate change impacts at the temperate-boreal ecotone: interactions between warming and precipitation*, (~ US$ 2,500,000; with Prof. P.B. Reich, Prof. Dr. S. Hobbie, Prof. Dr. R. Montgomery, Dr. R. Rich)

2011 German Academic Exchange Foundation, Travel expenses for the Annual Meeting of the Ecological Society of America in Austin, TX, USA (~800 €)

2011 Co-PI (with Dr. Alexandre Jousset) in *The role of plant diversity for the promotion of bacterial communities responsible for soil suppressiveness against phytopathogens* (JO 935/2), funded by the German Research Foundation (168,600 €)

2011 Co-PI (with Dr. Olaf Butenschoen) in *A biodiversity approach to improve bioremediation strategies for PAH contaminated soils*, funded by the Federal Ministry of Education and Research, Germany (21,312 €)

2010 Post-Doc Scholarship by the German Research Foundation, Ei 862/1 (~100,000 €)

2010 PI in the Jena Experiment (with Prof. Dr. Stefan Scheu), *SP4: Plant – soil fauna interactions*, funded by the German Research Foundation (~280,000 €)

2004 Scholarship by the German Academic Exchange Foundation (~3,000 €)

Visiting scientists

2025 Kui Wang (UCAS, China; 3,5 months)

2025 Kening Zhang (UCAS, China; 3,5 months)

2024 Bo Meng (Peking University, Beijing, China; 4 weeks)

2024 Marcel Ciobanu (Institute of Biological Research, Cluj-Napoca, Romania; 3 weeks)

2024 Xin Sun (Institute of Urban Environment, Chinese Academy of Sciences, Xiamen, China; 3 months)

2023 Marcel Ciobanu (Institute of Biological Research, Cluj-Napoca, Romania; 3 weeks)

2023	Takehiro Sasaki (Graduate School of Environment and Information Sciences, Yokohama National University, Japan; 5 weeks)
2023	Kevin Mueller (Cleveland State University, USA; 6 weeks)
2022	Takehiro Sasaki (Graduate School of Environment and Information Sciences, Yokohama National University, Japan; 3 weeks)
2022	Fernando Maestre (University of Alicante, Alicante, Spain, 1 month); funded by the sDiv sabbatical program
2022	Marcel Ciobanu (Institute of Biological Research, Cluj-Napoca, Romania; 3 weeks)
2021	Marcel Ciobanu (Institute of Biological Research, Cluj-Napoca, Romania; 1 month)
2021	Jamie Leonard (Stanford University, CA, USA; 3 months)
2021 – 2023	Rine Christopher Reuben (Jashore University of Science and Technology: Jashore, Kulna, Bangladesh; 2 years); funded by the Alexander von Humboldt Foundation
2020 – 2021	Tianmiao Liu (Harbin Institute of Technology (HIT), China; 12 months); funded by China Scholarship Council (CSC)
2020	Marcel Ciobanu (Institute of Biological Research, Cluj-Napoca, Romania; 2 months)
2019	Marcel Ciobanu (Institute of Biological Research, Cluj-Napoca, Romania; 1 month)
2019	Catriona Macdonald (Hawkesbury Institute for the Environment, Western Sydney University, Penrith, Australia, 4 months)
2019	Brajesh Singh (Hawkesbury Institute for the Environment, Western Sydney University, Penrith, Australia, 4 months); funded by the Alexander von Humboldt Foundation
2019 – 2021	Antonio Archidona-Yuste (Institute for Sustainable Agriculture, CSIC, Córdoba, Spain; 2 years); funded by the Alexander von Humboldt Foundation
2019	Fernando Maestre (University of Alicante, Alicante, Spain, 1 month); funded by the sDiv sabbatical program

2019	George Brown (Embrapa Soja, C.P., Brazil, 1 month); funded by the ERC
2019	Concepción Cano Díaz (Universidad Rey Juan Carlos Madrid, Spain, 3 months); funded by the DAAD
2018	Fernando Maestre (Universidad Rey Juan Carlos Madrid, Spain,1 month); funded by the sDiv sabbatical program
2018 – 2019	Darren Giling (Friedrich Schiller University Jena, Germany, 12 months)
2017	Tao Liu (University of the Chinese Academy of Sciences, China, 12 months)
2017	Cameron Wagg (Department of Evolutionary Biology and Environmental Studies, University of Zürich, Switzerland, 1 month)
2017	Erin Cameron (Metapopulation Research Centre, Department of Biosciences, University of Helsinki, Finland and Center for Macroecology, Evolution and Climate Change, University of Copenhagen, Denmark; 6 months).
2016	Alexandra Wright (Fashion Institute of Technology, Manhattan, USA; 1 month).
2016	Marcel Ciobanu (Institute of Biological Research, Cluj-Napoca, Romania; two times for 1.5 months each).
2015	Jara Domínguez (Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS), Spain): Spatial relationships between trees and soil communities (4 months).
2015	Marcel Ciobanu (Institute of Biological Research, Cluj-Napoca, Romania): *Soil nematodes in plant-soil feedback effects* (1 month).
2014 – 2015	Gabriela Martucci do Couto (Universidade Federal Rural de Pernambuco, Recife, Brazil): *Soil biodiversity effects on ecosystem functioning* (12 months). Postdoc scholarship by the Brazilian Research Foundation.
2014	Perla Mellado (MPI for Biogeochemistry, Jena, Germany): *Linking plant diversity effects on soil processes by shifts in microbial communities* (2 months).

2014 Marcel Ciobanu (Institute of Biological Research, Cluj-Napoca, Romania): *Plant diversity effects on free-living soil nematodes* (3 months).

2014 Eliška Kuťáková (Department of Botany, Faculty of Science, Charles University Prague, Czech Republic): *Soil feedback effects as modified by decomposers* (2 months).

2013 – 2015 Mengyun Liu (South China Botanical Garden, the Chinese Academy of Sciences, Guangzhou, China): *Tree and decomposer diversity effects on soil carbon dynamics*. Funded by the University of Chinese Academy of Sciences.

2013 Marcel Ciobanu (Institute of Biological Research, Cluj-Napoca, Romania): *Impact of summer drought and plant diversity on free-living soil nematodes* (3 months). Funded by ExpeER.

2013 Ademir S. F. Araújo (Federal University of Piauí, Agricultural Science Center, Soil Quality Laboratory, Teresina, Brazil): *Impact of land degradation and restoration on soil organisms* (1 week). Funded by CNPq Brazil.

2012 – 2013 Gabriela Martucci do Couto (Universidade Federal Rural de Pernambuco, Recife, Brazil): *Soil microbial properties in different land renaturation treatments in Brazalian riparian ecosystems* (7 months). Funded by the Brazilian Sandwich Program.

Supervised postdocs and senior scientists **(total number: 36)**

Dr. Gerrit Angst (2022-2023), Dr. Šárka Angst (2023-2024), Dr. Andrew Barnes (2016-2018), Dr. Léa Beaumelle (2017-2019), Dr. Rémy Beugnon (2022-ongoing), Dr. Simone Cesarz (2012-ongoing), Dr. Dylan Craven (2013-2018), Dr. Peter Dietrich (2021-2022), Dr. Anne Ebeling (2012-2014), Dr. Monica Farfan (2023-ongoing), Dr. Olga Ferlian (2014-ongoing), Dr. Pierre Ganault (2022-2023), Dr. Darren Giling (2016-2019), Dr. Carlos António Guerra (2018-2024), Dr. Jes Hines (2013-ongoing), Dr. Yuanyuan Huang (2020-ongoing), Dr. Annette Jesch (2019-2021), Dr. Malte Jochum (2018-2023), Dr. Stephanie Jurburg (2018-2022), Dr. Tengteng Li (2024-ongoing), Dr. Shan Luo (2021-2024), Anna-Maria Madaj (2021-ongoing), Dr. Muneer Malla (2025-ongoing), Dr. Helen Phillips (2016-2020), Dr. Rine Christopher Reuben (2021-2023), Dr. Soroor Rahmanian (2023-ongoing), Dr. Christian Ristok (2021-ongoing), Dr. Anja

Schmidt (2018-2020), Dr. Marie Sünnemann (2024-ongoing), Dr. Madhav Prakash Thakur (2016-2017), Dr. Lise Thouvenot (2017-ongoing), Dr. Manfred Türke (2014-2018), Dr. Anja Vogel (2016-2019), Dr. Cameron Wagg (2013-2016), Dr. Wenting Wang (2024-ongoing), Dr. Alexandra Wright (2016), Dr. Guiyao Zhou (2021-2023)

Supervised theses

Supervisor / co-supervisor of 28 PhD theses

2025 – Pia Löffke: *Tree and mycorrhiza diversity effects on the magnitude and stability of soil functions* (Leipzig University)

2024 – Marius Munschek: *An economics perspective on soil multifunctionality* (Leipzig University)

2024 – Tobias Käcks: *Microclimate-mediated tree diversity effects on soil functions* (Leipzig University)

2024 – Zarah Janda: *Plant diversity effects on soil multistability* (Leipzig University)

2023 – April Leonar: *The role of tree-nematode interactions in the acclimation and adaptation of trees – soil food webs and ecosystem functioning* (Leipzig University)

2023 – Lu Wang: *The role of tree-nematode interactions in the acclimation and adaptation of trees – molecular diversity* (Leipzig University)

2023 – Ioannis Constantinou: *Effects of aboveground invertebrate loss on soil biodiversity and ecosystem multifunctionality* (Leipzig University)

2022 – Rike Schwarz: *Effects of forest spatial heterogeneity on soil biodiversity and functioning* (DFG; Leipzig University)

2021 – Romy Zeiss: *Prioritäten für den effektiven Schutz von Bodenbiodiversität und Bodenfunktionalität in Deutschland* (DBU; Leipzig University)

2021 – Huimin Yi: *Tree diversity effects on multitrophic energy fluxes* (Leipzig University)

2021 – Elisabeth Bönisch: *The role of mycorrhizal fungi in nutrient dynimcs and plant-soil interactions* (Leipzig University)

2021 – Xiaoli Yang: *Effects of climate change and land use on soil nematode communities* (Leipzig University; with Martin Schädler)

2020 – Ana Elizabeth Bonato Asato: *Plant diversity, plant history, and soil history effects on the temporal dynamics of plant and soil activity* (Leipzig University)

2020 – 2024 Qun Liu: *Effects of climate change and land use on the structure and function of earthworm communities* (GAU Göttingen)

2019 – 2024 Marie Sünnemann: *Auswirkungen von Landnutzungseffekten auf die Funktionsweise von Böden im Klimawandel* (DBU; Leipzig University)

2018 – Guillaume Patoine: *Global patterns in soil microbial biomass* (Leipzig University)

2018 – 2021 Rémy Beugnon: *Functional diversity of soil organisms*, In: *Tree Diversity Interactions: The role of tree-tree interactions in local neighbourhoods in Chinese subtropical forests* (Leipzig University, with Simone Cesarz)

2017 – Christopher Hutengs: *Soil microbial community assessment with portable mid-infrared and visible to near-infrared spectroscopy* (Leipzig University, with Michael Vohland)

2016 – 2022 Felix Gottschall: *Tree diversity effects on the spatial and temporal variability of belowground processes* (Leipzig University)

2015 – 2022 Christian Ristok: *Plant and soil biodiversity effects on the plant metabolome* (DBU; Jena/Leipzig, with Nicole van Dam)

2015 – 2019 Rui Yin: *Effects of climate change and land use on the structure and function of soil fauna communities* (Leipzig University; with Martin Schädler)

2014 – 2020 Julia Siebert: *Global change effects on the activity and functional diversity of soil organisms* (Leipzig University; ***awarded by Leipzig University: "Prize for outstanding PhD thesis"***)

2014 – 2018 Andreas Klein: *Tracing the spread of European earthworms into North America using molecular markers and field experiments* (Göttingen/Leipzig, with Ina Schaefer)

2013 – 2017 Katja Steinauer: *The role of plant traits in the relationship between plant diversity and the performance of soil organisms* (Leipzig University)

2013 – 2018 Nathaly Guerrero-Ramírez: *Good polycultures or bad monocultures – which mechanisms are driven positive biodiversity–ecosystem functioning relationships?* (Leipzig University)

2012 – 2016 Madhav Thakur: *Does global change intensify plant diversity effects on soil biota and subsequent feedback effects?* (Leipzig University)

2011 – 2015 Ellen Latz: *Effect of plant diversity on soil bacterial communities responsible for soil suppressiveness against phytopathogens* (Georg August University Göttingen, with Alexandre Jousset)

2010 – 2020 Tanja Strecker: *Plant – soil fauna interactions in a plant diversity gradient: the functional composition of soil food webs* (Georg August University Göttingen, with Stefan Scheu)

Supervisor of 93 diploma theses, master theses, bachelor theses, research practicals etc.

2024 Lia Uhde: *Research and knowledge gaps for nature conservation of soil biodiversity*

2024 Eliah Milan Grooß: *Methods to quantify microclimate modulation in ecological contexts*

2024 Luise Xiaqian Doms-Grimm: *Conservation measures and their impact on soil biodiversity in Germany – a literature review*

2024 Hannah Kopf: *The roles of mycorrhizal types in tree neighborhood effects on herbivory damage*

2023 – 2024 Alexander Sternberg: *Effects of tree species richness and mycorrhizal type on the understory vegetation*

2023 – 2024 Rahel Gormanns: *Impact of tree species richness and mycorrhizal types on leaf trait expression in the MyDiv experiment*

2023 – 2024 Anne Busch: *Enhancing structural beta complexity (ESBC) in production forests affects activity response of microbial soil communities to a variety of substrates*

2023 – 2024 Felix Zeh: *Influence of plant diversity and community history on soil nematode communities*

2023 – 2024 Lea Heimbold: *Effects of soil and plant history on the structure of soil microbial community across a plant diversity gradient*

2023 Johannes Meister: *The effects of sieving, freezing, and different soil water conditions on soil microbial respiration using the SIR method*

2020 – 2023 Maike Ziegler: *Temporal dynamics of soil microbial communities during urban forest restoration in New Zealand*

2022 – 2023 Paul Liebel: *The effect of simulated climate change on agricultural yield and annual net biomass production in agroecosystems*

2022 Amelie Hauer: *The effect of tree diversity and mycorrhizal type on soil microbial communities*

2021 – 2022 Hui Dong: *Seasonal plant diversity effects on soil temperature in a long-term experiment*

2021 – 2022 Linnea Smith: *Effects of interacting biotic and abiotic stress on the wheat volatilome*

2021 – 2022 Laura-Fiona Heptner: *Underground inequity – impacts of resource distributionon soil ecosystem functioning*

2021 – 2022 Merlin Helle: *Joint impacts of climate and predation on experimental litter-mesofauna communities*

2021 – 2022 Lena Urban: *The effects of climate change, land use, and disturbance on soil fauna communities*

2021 – 2022 Rike Lena Schwarz: *Effects of invasive earthworms on plant functional traits and biotic interactions*

2021 – 2022 Friedrich Arne Scherzinger: *Multifunctionality of agroecosystems in Mid-Germany under land-use and climate change – an ecological-economic assessment*

2021 – 2022 Jan Austen: *Leaf herbivory and predation rates in a tree diversity experiment with contrasting mycorrhizal types*

2021 Roberto Rebollo Hernandez: *Estimating energy fluxes in a tree-diversity experiment with contrasting types of mycorrhizae*

2021 Kristian Schufft: *Influence of climate legacy on European Collembola species richness*

2021 Jule Koch: *Effects of deforestation on the earthworm diversity of Brazil*

2021 Daniel Behrends: *Landscape effects on soil microbe diversity*

2021 Jessica Dahlke: *Distribution and data of earthworm diversity in Germany*

2021 Therese Ziegler: *Effects of nutrient enrichment and top predator size structure on energy flux in a marine benthic community*

2020 – 2021 Henriette Christel: *Tree species identity and tree-tree interaction effects on soil microbial biomass and basal respiration*

2019 – 2021 Jannis Mirko Beyer: *The impact of root volatile blends on nematode host choice in aboveground-belowground interactions*

2020 – 2021 Romy Zeiss: *How (well) does European policy protect soil organisms? Challenges of protecting European belowground biodiversity beyond productive systems*

2019 – 2021 Johannes Köhler: *Invasive ecosystem engineers – Impacts of exotic earthworms on plant community composition, diversity, and traits in North American ecosystems*

2019 – 2020 Christina Alt: *Belowground ecosystems in a changing environment – Soil microorganisms and soil structure under different land-use strategies and climate change*

2019 – 2020 Georg Hähn: *Litter quality and tree species richness effects on litter decomposition in subtropical forest*

2019 – 2020 Juliane Bormann: *Effects of aboveground invertebrate decline on soil food webs*

2019 – 2020 Sophia Findeisen: *The effects of invasive earthworms on belowground invertebrate communities and ecosystem functioning in North American forest ecosystems*

2019 – 2020 Lotte Horn: *Impacts of invasive earthworms on plant communities in North American forest ecosystems*

2019	Daniel Kähl: *Einfluss von Klimawandel und Landnutzung auf Spinnen*
2019	Selina Mehnert: *Bodenqualitäts- und Klimaeffekte auf Bodenökosystemfunktionen – Entzerrung mit Hilfe eines Phytometers*
2019	Romy Zeiss: *Impacts of earthworm invasion on aboveground invertebrate communities in North American forest ecosystems*
2019	Sabine Fürst: *Effects of aridity and herbivory on soil microbial properties in global drylands*
2019	Friederike Wölke: *Effects of aridity, herbivory, and plant communities on soil microbial properties in global drylands*
2018 – 2021	Jannis Beyer: *Attraction of soil nematodes by plant volatiles in the rhizosphere*
2018 – 2019	Esther-Marie Lintzel: *Effects of arbuscular mycorrhizal fungi and Trichoderma on plant-herbivore interactions on different maize genotypes*
2018 – 2019	Julia Kostin: *Land use and climate change effects on the stability of soil functions*
2017 – 2018	Till Enrique Newiger-Dous: *Tree diversity effects on decomposition and links to the functional diversity of soil microorganisms*
2017 – 2018	Sophie Davids: *Tree diversity effects on the functional diversity of soil microorganisms*
2017 – 2018	Anna-Lisa Schween: *Plant diversity and drought effects on plant phenology*
2017 – 2018	Manuela von Malotki: *Effects of invasive earthworms on Collembola populations and traits*
2017	Karl Andraczek: *Der Einfluss der Baumhöhe auf die Dichte und Zusammensetzung von Nematoden in den Baumkronen von Eichen und Eschen des Leipziger Auwaldes*
2017	Domenica Reichert: *Anwendung von Schneckenkot als biologischer Pflanzenschutz vor Herbivoren im Feld*
2017 – 2018	Marie Sünnemann: *The effects of drought and nutrient addition on the activity and functional diversity of soil organisms*

2017	Justus Hennecke: *Plant invasions: experimental test of the enemy release hypothesis*
2017	Lilith Zoe Brüning: *Effects of management and habitat heterogeneity on amphibian communities in agroforestry systems in Colombia*
2017 – 2018	Tom Künne: *Effects of exotic earthworms on tree herbivory in two aspen species*
2016 – 2017	Vera Quast: *The role of mutualists in plant co-existence*
2016	Sascha Spalek: *Schneckenkot als biologischer Pflanzenschutz vor Herbivoren*
2016 – 2018	Guillaume Patoine: *Tree diversity effects on soil animal communities*
2015 – 2016	Inés Martin: *Interactive effects of warming, drought, CO_2, and N deposition on soil communities*
2015 – 2016	Maria Feustel: *Ausbreitung von Hornmilben (Oribatida) durch Schnecken im Auwald*
2015 – 2016	Katharina Stolze: *Einfluss von anözischen Regenwürmern auf mikrobielle Gemeinschaften in der Drilosphäre und hydrophobe Eigenschaften der Gangwände*
2015 – 2016	Peter Dietrich: *Underlying mechanisms of deteriorating plant monocultures over time*
2015 – 2016	Benjamin Schwarz: *Effects of warming on soil food web structure*
2015	Tom Künne: *Temperature and predation effects on the interaction between two Collembola species*
2014 – 2015	Anne Helling: *How does decomposer diversity affect mass loss of standardized root litter?*
2014	Annika Eva Schulz: *Comparing different nematode extraction techniques*
2014	Nicolas Philip Betsche: *Side effects of mustard solution for earthworm extraction on plant competition*
2014	Annabell Richter: *Plant diversity and soil animal effects on soil microbial communities and functions*
2013 – 2015	Susann Pabst: *The effect of elevated CO_2 and temperature on soil biota and the success of native vs invasive plants*

2013 – 2014 Daniela Wirsch: *Optimizing the bait lamina method*

2013 – 2015 Daniela Wagner: *Does plant diversity buffer effects of flooding on soil nematode communities?*

2013 Benjamin Schwarz: *Tree diversity and identity effects on earthworm communities*

2013 – 2014 Saskia Rennoch: *Effects of soil food web complexity on plant community composition and productivity*

2013 – 2014 Julia Siebert: *Effects of elevated temperature and altered precipitation regimes on soil food web structure*

2013 Julia Friese: *Litter decomposition as affected by the functional diversity of trees and decomposers*

2013 Ariane Zander: *Getting to the bottom: how deep go plant diversity effects on soil microorganisms?*

2013 Kristin Wagner: *Efficiency of different earthworm extraction methods*

2012 – 2014 Josephine Grenzer: *Collembola identity and diversity effects on soil microbial communities and ecosystem multifunctionality*

2012 – 2013 Katja Steinauer: *Interactive effects of warming and plant diversity on soil microbial community structure and functions*

2012 Yasemin Günay: *Transgressive overyielding of soil microbial biomass in a grassland plant diversity gradient*

2012 Katja Steinauer: *Effects of N deposition on soil organisms and functions in two deciduous forests*

2010 Wiebke Schulz: *Influence of biodiversity and resource complexity on the invasibility of bacterial communities*

2010 Karolin Thomisch: *Struktur des Bodennahrungsnetzes in einem Pflanzendiversitätsgradienten*

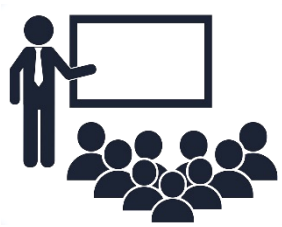
2009 – 2010 Florian Andreas Schwarzmüller: *Dynamic stability and interaction strengths in soil food-web motifs*

2009 – 2010 Ellen Latz: *Correlation between plant diversity and soil suppressiveness*

2009 Johanna Brenner: *Einfluss von Pflanzendiversität auf Abundanzen, Diversität und zeitliche Stabilität der*

	Bodenmakrofauna einer experimentell angelegten Graslandgesellschaft
2009	Stefan Radsick: *Haben Regenwürmer nährstoffreiche Nahrungsquellen? Der Fraß an Pflanzensamen und Keimlingen*
2008	Matthias Klier: *Nematoden in einem Pflanzendiversitätsgradienten: Einfluss auf Mikroorganismen und Pflanzenwachstum*
2008	Felix Schonert: *Einfluss von Pflanzendiversität auf die Bodenfauna einer experimentell angelegten Graslandgemeinschaft* ***(awarded by the state of Hesse: „Best teachers' thesis in 2008")***
2008	Svenja Gass: *Einfluss von Pflanzendiversität und funktioneller Identität auf Nematodengemeinschaften*
2007 – 2008	Daniela Straube: *Nonlinearity of effects of invasive ecosystem engineers on abiotic soil properties and soil biota*
2007	Christiane Schmidt: *Einfluss von funktionellen Pflanzengruppen und ausgesäter Diversität, sowie Insektizidapplikation auf die Myriapodagruppen Chilopoda und Symphyla*
2007	Daniela Straube: *Efficiency of two widespread non-destructive extraction methods under dry soil conditions for different ecological earthworm groups*
2006 – 2008	Volker Hörsch: *Wechselwirkungen zwischen Zersetzern (Lumbricidae:* Aporrectodea caliginosa *und* Lumbricus terrestris*) und phytopathogenen Pilzen (*Fusarium graminearum*): Einfluss auf das Wachstum und den Befall von Weizen (*Triticum aestivum*) durch Pflanzenfresser (*Rhopalosiphum padi*)*
2006 – 2007	Martin Schuy: *Direkte und indirekte Wirkung von Regenwürmern auf die Keimung von Pflanzensamen*

Organized sessions / workshops



Organizer / chair of 43 conferences, sessions, workshops etc.

2024 ► Organization of the *Jena Retreat of the Jena Experiment*, November 2024, Leipzig, Germany (with Anne Ebeling).

2024 ► *Bridging scales in soil biodiversity–ecosystem functioning relationships*. Session at the World Biodiversity Forum 2024, June 2024, Davos, Switzerland (with Marie Sünnemann & Anton Potapov).

2024 ► Co-organization of the *sOilFauna Workshop IV*, Mai 2024, Leipzig, Germany (with Jérome Mathieu).

2024 ► Organization of the *Annual Retreat of the Experimental Interaction Ecology Group*, April 2024, Lutherstadt Wittenberg, Germany.

2024 ► Organization of the *Jena Retreat of the Jena Experiment*, April 2024, Jena, Germany (with Anne Ebeling).

2024 ► Co-organization of the *MyDiv Annual Meeting*, February 2024, Leipzig, Germany.

2023 ► Co-organization of the *sOilFauna Workshop III*, December 2023, Paris, France (with Jérome Mathieu).

2023 ► Organization of the *Jena (Writing) Retreat of the Jena Experiment*, December 2023, Leipzig, Germany.

2023 ► Organization of the *52nd Annual Meeting of the Ecological Society of Germany, Austria and Switzerland* (>1,150 participants), September 2023, Leipzig, Germany (with Aletta Bonn & Henrique Pereira).

2023 ► Organization of the *On-Site Evaluation of the Jena Experiment*, June 2023, Jena, Germany (with Anne Ebeling).

2023 ► Organization of the sDiv workshop *sOilFauna II*, May 2023, Leipzig, Germany (with Jérome Mathieu).

2023 ► Organization of the *Jena Experiment Retreat*, April 2023, Jena, Germany (with Anne Ebeling).

2023 ► Organization of the *Proposal Writing Retreat of the Jena Experiment*, February 2023, Leipzig, Germany.

2022 ► Co-organization of the online workshop *How to decompose*, December 2022, online.

2022 ► Organization of the *Jena Experiment Retreat*, November 2022, Leipzig, Germany.

2022 ► *MyDiv Workshop*, July 2022, Leipzig, Germany (with Olga Ferlian).

2022 ► *Soil biodiversity and function scenarios*. Session at the World Biodiversity Forum 2022, June 2022, Davos, Switzerland (with Carlos Guerra & Anton Potapov).

2022 ► Member of the organization committee of the international conference *Frontiers in experimental research on changing environments*, June 2022, Leipzig, Germany.

2022 ► Organization of the sDiv workshop *sOilFauna I*, May 2022, Leipzig, Germany (with Jérome Mathieu).

2022 ► Organization of the *Jena Experiment Retreat*, March 2022, Bad Hersfeld, Germany (with Anne Ebeling).

2021 ► Organization of the *Jena Experiment Retreat*, October 2021, Jena, Germany (with Anne Ebeling).

2021 ► Organization of the *Jena Experiment Retreat*, March 2021, Jena, Germany (with Anne Ebeling, online).

2021 ► Member of the Executive Defense Committee of the evaluation of iDiv's third funding phase, March 2021 (online).

2020 ► Organization of the *Jena Experiment Retreat*, October 2020, Jena, Germany (with Anne Ebeling).

2019 ► Head of the iDiv Annual Conference, Leipzig, Germany (with Rebecca Thier-Lange and the organizing committee).

2019 ► Organization of the on-site review of the proposed DFG Research Unit in the Jena Experiment *Biotic interactions, community assembly, and eco-evolutionary dynamics as drivers of long-term biodiversity–ecosystem functioning relationships*, Jena & Dornburg, Germany (with Anne Ebeling & Kathrin Greyer).

2018 ► Organization of the workshop *From predictive modelling to global scale monitoring of soil biodiversity and ecosystem function dynamics*, Leipzig, Germany (with Carlos Guerra).

2017 ► Organization of the *iDiv Summer School* on *Synthesizing and modelling biodiversity data*, Leipzig, Germany.

2017 ► Organization of the workshop *sWORM - A global soil biodiversity database and its application to data synthesis and theory development*, Leipzig, Germany.

2017 ► Organization of the workshop *Community assembly in BEF experiments*, Leipzig, Germany.

2017 ► Organization of the workshop *The Future of Biodiversity–Ecosystem Functioning Research*, Jena, Germany.

2017 ► Organization of the Symposium *15 Years of the Jena Experiment: the Past, the Present, and the Future*, Jena, Germany.

2015 ► Organization of the on-site review of the Research Unit of the Jena Experiment (FOR 1451), Jena, Germany.

2015 ► Organization of the session *Illuminating the black box: causes, consequences, and capture of interactions in soil* at the Annual Meeting of the GfÖ (Gesellschaft für Ökologie), Göttingen, Germany.

2014 ► Organization of the sDiv workshop *Biodiversity Changes* in Leipzig, Germany (with Forest Isbell).

2014 ► Organization of the sDiv workshop *Plant diversity effects on ecosystem resistance to and recovery from perturbations – workshop II* in Leipzig, Germany (with Dylan Craven and Forest Isbell).

2014 ► Organization of the session *Novel Soils: Aboveground-belowground interactions in a changing world* at the Annual meeting of the GfÖ (Gesellschaft für Ökologie), Hildesheim, Germany.

2014 ► Organization of the '*Network'* workshop in Jena, Germany (with Jes Hines and Wolfgang Weisser).

2013 ► Organization of the sDiv workshop *Plant diversity effects on ecosystem resistance to and recovery from perturbations* in Leipzig, Germany (with Forest Isbell).

2013 ► Organization of the session *Microorganisms in biodiversity–ecosystem functioning research* at the Annual meeting of the GfÖ (Gesellschaft für Ökologie), Potsdam, Germany (with Kirsten Küsel).

2012 ► Organization of the session *The Jena Experiment* of the DAAD Science Tour 2012, Understanding Biodiversity and Climate Change, Jena, Germany (with Anne Ebeling).

2012 ► Organization of the session *Soil Ecology in a Changing World* at the Annual meeting of the GfÖ (Gesellschaft für Ökologie), Lüneburg, Germany (with Liliane Ruess).

2011 ► Organization of the session *Effects of invasive earthworms on biogeoscience processes* at the Annual meeting of the Canadian Geophysical Union, Banff, Kanada (with Edward A Johnson).

Talks

198 talks presented in seminars, conferences, & workshops

2024 (14 talks)

► *The dark side of biodiversity.* Seminar of the Senckenberg Natural History Museum, December 2024, Görlitz, Germany.

► *The heterogeneity-diversity-performance nexus.* Jena Experiment Retreat, November 2024, Leipzig, Germany.

► *The heterogeneity-diversity-performance nexus.* Annual iDiv Conference, November 2024, Leipzig, Germany.

► *Soil biodiversity monitoring across scales – the biased view of an experimental ecologist.* Meeting of the DFG Senate's Commission on Biodiversity, November 2024, Leipzig, Germany.

► *Faktencheck Artenvielfalt – Bestandsaufnahme und Perspektiven zum Erhalt der biologischen Vielfalt in Deutschland.* Bundesministerium für Bildung und Forschung, September 2024, Berlin, Germany.

► *What are the human benefits of soil multifunctionality?* ECO-N Welcome Week of the Graduate School, September 2024, Leipzig, Germany.

► *The multiple-mechanisms hypothesis of long-term biodiversity-stability relationships.* Workshop of the Biodiversity on a Changing Planet Working group, August 2024, Minneapolis, USA.

► *The dark side of biodiversity.* SEEM webinar of Université de Montpellier, May 2024, Montpellier, France (invited).

► *The dark side of biodiversity.* Leopoldina Life Science Symposium 2024, April 2024, Halle, Germany.

► *The composition of the Jena Experiment Research Unit.* Jena Experiment Retreat, April 2024, Jena, Germany.

► *The multiple-mechanisms hypothesis of biodiversity-stability relationships.* Jena Experiment Retreat, April 2024, Jena, Germany.

► *Welcome note.* Jena Experiment Retreat, April 2024, Jena, Germany.

► *How to deal with reviewer comments.* Experimental Interaction Ecology Seminar, February 2024, Leipzig, Germany.

► *General introduction.* MyDiv Annual Meeting, February 2024, Leipzig, Germany.

2023 (28 talks)

► *The dark side of biodiversity.* Ecological Seminar, Bremen University, December 2023, Bremen, Germany (invited talk).

► *Welcome Note.* Jena Experiment Retreat, December 2023, Leipzig, Germany.

► *How to respond to reviewers' comments.* Jena Experiment Writing Retreat, December 2023, Leipzig, Germany.

► *Bodenleben: Biodiversität, Bedeutung, Bedrohung, Bewirtschaftung und Bewertung.* Dies Academicus at Leipzig University, December 2023, Leipzig, Germany.

► *To be or not to be – authorship guidelines in the Experimental Interaction Ecology group.* EIE lab group seminar, September 2023, iDiv, Leipzig, Germany.

► *Closing Remarks.* 2nd Annual Meeting of the Ecological Society of Germany, Austria and Switzerland, September 2023, Leipzig, Germany.

► *The multiple-mechanisms hypothesis of biodiversity-stability relationships.* 2nd Annual Meeting of the Ecological Society of Germany, Austria and Switzerland, September 2023, Leipzig, Germany.

► *Welcome Note.* 2nd Annual Meeting of the Ecological Society of Germany, Austria and Switzerland, September 2023, Leipzig, Germany.

► *Die dunkle Seite der Biodiversität*. Gastvortrag für die Oberstufe der Albert-Einstein-Schule in Groß-Bieberau, July 2023, Deutschland (eingeladen).

► *Das "One Health"-Konzept in die Anwendung bringen! Das OHA!-Projekt.* Final selection round of the short-listed candidates for the Hamburger Wissenschaftspreis on "One Health" by the Akademie der Wissenschaften in Hamburg, July 2023, Hamburg, Germany (invited).

► *Das MyDiv Experiment.* BIOLWELL Kick-off Workshop, June 2023, Leipzig, Germany.

► *Inselbiogeografie*. Recruitment symposium for the W3 Professorship of Animal Ecology at FU Berlin (June 2023), Institute of Biology, FU Berlin, Germany (invited).

► *The dark side of biodiversity*. Recruitment symposium for the W3 Professorship of Animal Ecology at FU Berlin (June 2023), Institute of Biology, FU Berlin, Germany (invited).

► *Subproject Z2 – Database and synthesis*. On-Site Evaluation of the Jena Experiment, June 2023, Jena, Germany.

► *Biotic interactions, community assembly, and eco-evolutionary dynamics as drivers of long-term BEF relationships*. On-Site Evaluation of the Jena Experiment, June 2023, Jena, Germany (**keynote**).

► *Plant diversity effects on soil carbon accumulation – insights from the Jena Experiment.* “4 per 1000” Northern European regional meeting, June 2023, Helsinki, Finland (**invited keynote**).

► *Bodenleben: Biodiversität, Bedeutung, Bedrohung, Bewirtschaftung und Bewertung.* Fachtagung „Wege zu einem bundesweiten Bodenbiodiversitätsmonitoring“, Nationalen Monitoringzentrums zur Biodiversität (NMZB), Juni 2023, Leipzig, Germany (**invited keynote**).

► *Multitrophic communities and energy fluxes in a changing world.* Symposium on Biotic interactions and their role in ecosystem-climate feedbacks, May 2023, Hamburg, Germany (invited).

► *Welcome Note.* Jena Experiment Retreat, April 2023, Jena, Germany.

► *The dark side of biodiversity*. Seminar at Department of Botany (April 2023), Faculty of Science, Charles University, Prague, Czech Republik (invited).

► *10 Jahre iDiv – 10 Jahre für die Zukunft.* 10th Anniversary of iDiv Celebration, April 2023, Leipzig, Germany.

► *Biotic interactions, community assembly, and eco-evolutionary dynamics as drivers of long-term BEF relationships – Ideas for the future.* Forschungskommission Leipzig University, March 2023, Leipzig, Germany.

► *ICP Multifunctional Soils.* ECO-N Retreat, March 2023, Leipzig, Germany.

► *Jena Experiment FOR 5000 – the second phase.* Jena Experiment Writing Retreat, February 2023, Leipzig, Germany.

► *Subproject 07 – Soil multidimensional stability.* Jena Experiment Writing Retreat, February 2023, Leipzig, Germany.

► *Subproject Z1 – Central Coordination.* Jena Experiment Writing Retreat, February 2023, Leipzig, Germany.

► *Subproject Z2 – Database & synthesis.* Jena Experiment Writing Retreat, February 2023, Leipzig, Germany.

► *Biotic Interactions as Mediators of Context-Dependent Biodiversity-Ecosystem Functioning Relationships – MyDiv & BIOCODE.* Joint seminar by the Coomes Lab and the Crop Science Centre, Cambridge, England, Webinar (invited talk).

2022 (18 talks)

► *Welcome Note.* Jena Experiment Retreat, November 2022, Leipzig, Germany.

► *Biotic interactions, community assembly, and eco-evolutionary dynamics as drivers of long-term BEF relationships – Ideas for the future.* Jena Experiment Retreat, November 2022, Leipzig, Germany.

► *The dark side of biodiversity.* DFG Leibniz Lecture Series, Cambridge, England (invited talk).

► *The dark side of biodiversity.* MPI Chemical Ecology Seminar, Jena, Germany (invited talk).

► *Ecotron Drought Experiment.* MyDiv Workshop, Leipzig, Germany.

► *MyDiv – General Introduction.* MyDiv Workshop, Leipzig, Germany.

► *The dark side of biodiversity.* TROPOS Seminar, Leipzig, Germany (invited talk).

► *Sustainable land use mitigates the belowground consequences of climate change*. World Biodiversity Forum 2022, June 2022, Davos, Switzerland.

► *The heterogeneity-diversity-performance nexus.* Frontiers in experimental research on changing environments Conference, June 2022, Leipzig, Germany.

► *Future Soils.* Breathing Nature Conference, March 2022, Grimma, Germany.

► *Biotic Interactions as Mediators of Context-Dependent Biodiversity-Ecosystem Functioning Relationships.* Annual iDiv Conference, Leipzig, Germany.

► *The Jena Experiment.* Annual iDiv Conference, Leipzig, Germany.

► *To be or not to be – authorship guidelines in the Experimental Interaction Ecology group.* EIE lab group seminar, iDiv, Leipzig, Germany.

► *Welcome Note.* Jena Experiment Retreat, March 2022, Bad Hersfeld, Germany.

► *Biotic Interactions as Mediators of Context-Dependent Biodiversity-Ecosystem Functioning Relationships.* iDiv Local Committee Meeting Leipzig University, Leipzig, Germany.

► *Soil Biodiversity Scenario Modeling.* January 2022, Breathing Nature Workshop, Grimma, Germany.

► *The heterogeneity-diversity-system performance nexus.* Seminar of the Experimental Interaction Ecology group, Leipzig, Germany.

► *Biotic Interactions as Mediators of Context-Dependent Biodiversity-Ecosystem Functioning Relationships.* ERC Consolidator Grant interviews of the European Research Council, Brussels, Belgium, Webinar.

2021 (11 talks)

► *Die dunkle Seite der Biodiversität – Wechselwirkungen zwischen dem Menschen und biologischer Vielfalt im Boden.* Jahresversammung der Leopoldina: Biodiversität und die Zukunft der Vielfalt, Leopoldina, Halle, Germany.

► *Integrative Biodiversitätsforschung in der nächsten UN-Dekade.* 18. Tagung der Gemeinschaft der Zooförderer, Zoo Leipzig, Germany.

► *Global networks at iDiv*. Inauguration iDiv building, Leipzig, Germany.

► *The role of vegetation cover and diversity in determining soil and air temperature*. Breathing Nature Workshop, Leipzig University, Germany.

► *Ökologische Experimente an der Forschungsstation Bad Lauchstädt*. Exkursion for den Lions Club Markkleeberg, Germany.

► *Linking global soil biodiversity to ecosystem functioning*. Global Soil Biodiversity Inspire Session at the Annual Meeting of the Ecological Society of America (ESA), virtual conference, USA (invited).

► *The MyDiv Experiment – Rationale & Design.* TreeDì PI meeting, Webinar.

► *Biodiversity–ecosystem functioning relationships in terrestrial ecosystems and the dark side of biodiversity.* Ecological principles underlying ecosystem function on land and in the ocean, Paris, France, Webinar (invited).

► *Bodenbiodiversität.* 2. Faktencheck Leitungstreffen, Leipzig, Germany, Webinar.

► *Plans in BioCoDe.* Science Strategy Board Meeting, Leipzig, Germany, Webinar.

► *Welcome Note.* Jena Experiment Retreat, Jena, Germany, Webinar.

2020 (15 talks)

► *The dark side of biodiversity.* Soil Ecology Seminar, Institute of Urban Environment, Chinese Academy of Sciences, Xiamen, China, Webinar (invited talk).

► *Soil biodiversity research at iDiv.* UFZ Local Committee Meeting, Webinar (invited talk).

► *Integrative research in the Jena Experiment.* Jena Experiment Lecture Series, Webinar.

► *The dark side of biodiversity.* Ecology Department Tamm Seminar, Tammsalen, Department of Ecology, Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden, Webinar (invited talk).

► *Biodiversity Functions.* 5th iDiv Annual Conference, Webinar (***Keynote Talk***).

► *Welcome Note.* Jena Experiment Retreat, October 2020, Jena, Germany.

► *Plans in the MyDiv Project.* 10th TreeDivNet Meeting, Webinar.

► *Mycorrhizal Fungi as Mediators of Tree Diversity–Ecosystem Functioning Relationships (MyDiv).* Interview by the European Research Council for an ERC Consolidator Grant (Ecology, Evolution and Environmental Biology (LS8)), Brussels, Belgium (invited; Webinar).

► *Plans in the MyDiv Project.* Experimental Interaction Ecology lab group seminar, Webinar.

► *The Rationale of the MyDiv Experiment.* Experimental Interaction Ecology lab group seminar, Webinar.

► *The dark side of biodiversity.* Triple E Lectures (Ecology, Energy, Environment), Institute of Environmental Sciences Leiden and the Centre for Sustainability, University of Leiden, The Netherlands, Webinar (invited talk).

► *FOR 5000 – Biotic interactions, community assembly, and eco-evolutionary dynamics as drivers of long-term BEF relationships.* Jena Experiment Retreat, Webinar.

► *Temporal trends in nematode diversity and the role of climate change - a paper idea.* Experimental Interaction Ecology lab group seminar, Webinar.

► *Land-use effects on soil organisms and processes in a future climate.* World Biodiversity Forum 2020, Davos, Switzerland (invited talk).

► *To be or not to be – authorship guidelines in the Experimental Interaction Ecology group.* EIE lab group seminar, iDiv, Leipzig, Germany.

2019 (12 talks)

► *Land-use effects on soil organisms and processes in a future climate.* Symposium: Above- and Belowground Biodiversity for Sustainable Ecosystems, Agroscope, Zurich, Switzerland (***Keynote Talk***).

► *Biotic interactions, community assembly, and eco-evolutionary dynamics as drivers of long-term BEF relationships.* Experimental Interaction Ecology Lab Group Seminar, Leipzig, Germany.

► *Biotic interactions, community assembly, and eco-evolutionary dynamics as drivers of long-term BEF relationships.* 4th iDiv Annual Conference, Leipzig, Germany.

► *Welcome Note.* iDiv Annual Conference, Leipzig, Germany.

► *Jena Experiment und iDiv Ecotron.* Ceremony of signing the Memorandum of Understanding by the science ministers of Saxony, Saxony-Anhalt, and Thuringia on the long-term funding of iDiv, Leipzig, Germany.

► *Biotic interactions, community assembly, and eco-evolutionary dynamics as drivers of long-term BEF relationships.* On-site review of the proposed DFG Research Unit in the Jena Experiment, Dornburg, Germany.

► *Research Area 3: Biodiversity and Ecosystem Functioning.* Visit of the Scientific Advisory Board of iDiv, Leipzig, Germany.

► *Insektensterben überall... auch unter unseren Füßen?* Leipziger Naturschutzwoche, Umweltbibliothek, Leipzig, Germany.

► *Biodiversitätsfunktionen – Was folgt für Ökosysteme.* Workshop BMBF representatives, Leipzig, Germany.

► *Functional biodiversity research in the Jena Experiment and beyond.* 1st Annual TreeDì PhD Conference, University of Chinese Academy of Sciences, Yanqi Lake Campus, Beijing, China (***Keynote Lecture***).

► *Da ist der Wurm drin.* Leipzig Book Fair, Leipzig, Germany.

► *Funktionelle Biodiversitätsforschung im Jena Experiment.* Öffentliche Ringvorlesung des Naturwissenschaftlichen Vereins zu Bremen zusammen mit der Universität Bremen, der Hochschule Bremen und dem Übersee-Museum zum Rahmenthema *Biodiversitätsforschung: ein Auslaufmodell?* Bremen, Germany

2018 (9 talks)

► *Ecosystem responses to exotic earthworm invasion.* 3rd iDiv Annual Conference, Leipzig, Germany.

► *Die dunkle Seite der Biodiversität.* Seniorenakademie, BBZ, Leipzig, Germany.

► *Global soil biodiversity and ecosystem function dynamics.* Soil Biodiversity Workshop, Leipzig, Germany.

► *Ecosystem responses to exotic earthworm invasion.* NEOBIOTA 2018; 10th International Conference on Biological Invasions: New Directions in Invasion Biology, Dublin, Ireland (***Keynote Talk***).

► *Insektensterben überall... auch unter unseren Füßen?* Öffentliche Vorträge von Wissenschaft und Naturschutz zur Eröffnung einer Ausstellung der UN-Dekade Biologische Vielfalt, Leipzig, Germany.

► *Ecosystem responses to exotic earthworm invasion.* 1st International Earthworm Congress, Shanghai, China.

► *Global soil biodiversity and ecosystem function dynamics.* Flexpool Evaluation Symposium, oral defence for postdoctoral research projects, German Centre for Integrative Biodiversity Research (iDiv), Leipzig, Germany

► *Land-use intensity alters climate change eff ects on the magnitude and phenology of soil biological activity*. BONARES Conference 2018 “Soil as a Sustainable Resource”, Berlin, Germany.

► *The dark side of biodiversity.* Seminar series BILL (Biomedical Lectures Leipzig), Leipzig, Germany (invited talk).

2017 (6 talks)

► *Effects of invasive earthworms on biogeochemical soil characteristics* at iDiv Summer School, Leipzig, Germany.

► *iDiv Summer School 2017 – Synthesising and modelling biodiversity data* at iDiv Summer School, Leipzig, Germany.

► *Das iDiv-Ecotron: Integration von Experiment und Theorie*. Plenary talk at the iDiv Ecotron inauguration, Bad Lauchstädt, Germany.

► *Community Assembly in Biodiversity–Ecosystem Experiments*. Opening talk at the workshop “Community assembly in BEF experiments”, Leipzig, Germany.

► *15 Years Jena Experiment: the Past, the Present, and the Future*. Opening talk at the Symposium “15 Years Jena Experiment: the Past, the Present, and the Future”, Jena, Germany.

► *The dark site of biodiversity*. Ökologisches Kolloquium des Insituts für Zoologie, Universität zu Köln, Köln, Germany (invited talk).

2016 (8 talks)

► *Embracing the complexity of aboveground-belowground networks and links to ecosystem functioning*. Wissenschaftliches Festkolloquium zu Ehren von Herrn Prof. Dr. François Buscot, Halle, Germany (invited talk).

► *The Jena Experiment 2016–2018*. Kick-off meeting Jena Experiment postdocs, Jena, Germany.

► *Da ist der Wurm drin!?* Science Notes, Leipzig, Germany.

► *Die dunkle Seite der Biodiversität*. Stipendiatentreffen DAAD (German Academic Exchange Service), Leipzig, Germany (invited talk).

► *Bridging iDiv and BIBS*. Kick-off meeting „Bridging in Biodiversity Science“ at Berlin-Brandenburg Institute of Advanced Biodiversity Research, Berlin, Germany (invited talk).

► *Die dunkle Seite der Biodiversität*. Bundeskongress des Verbands zur Förderung des MINT-Unterrichts (MNU), Leipzig, Germany (invited talk).

► *What happens after the submission of my paper?* yDiv Editors Workshop, Leipzig, Germany (invited talk).

► *The dark site of biodiversity*. Dresdner Zoologische Kolloquien, Senckenberg Naturhistorische Sammlungen Dresden, Dresden, Germany (invited talk).

2015 (11 talks)

► *iDiv – Wissenschaftliche Glanzlichter*. Festakt zum 3. Geburtstag von iDiv, Leipzig, Germany.

► *Biodiversity–ecosystem functioning relationships in a changing world*. 1st iDiv Annual Conference, Session Functions, Leipzig, Germany (***Keynote Talk***).

► *Aboveground–belowground interactions as drivers of biodiversity effects on ecosystem functions and services*. Symposium: Soils and Human Health: Linking Soil, Plants, and the Environment to Human and Animal Health. Annual meetings of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America with the Entomological Society of America with the title "*Synergy in Science: Partnering for Solutions*". Minneapolis, MN, USA (invited symposium talk).

► *Plant–soil fauna interactions*. Workshop of the Research Unit of the Jena Experiment, Jena, Germany.

► *The dark side of biodiversity*. Inaugural lecture at Leipzig University, Leipzig, Germany.

► *Ecosystem Responses to Exotic Earthworm Invasion in Northern North American Forests*. Interview by the European Research Council for an ERC Starting Grant (Panel Evolutionary, Population and Environmental Biology), Brussels, Belgium (invited).

► *The Jena Experiment – General Introduction*. On-site review of the Research Unit of the Jena Experiment, Jena, Germany.

► *The design of the Jena Experiment*. yDiv Summer School on Synthesis, Leipzig, Germany.

► *Within-experiment synthesis in the Jena Experiment*. yDiv Summer School on Synthesis, Leipzig, Germany.

► *Experimental Interaction Ecology*. Scientific Advisory Board workshop, German Centre for Integrative Biodiversity Research (iDiv), Germany.

► *Structure and functioning of soil food webs*. Global Change Experimental Facility strategy workshop, UFZ Halle, Germany.

2014 (10 talks)

► *Die dunkle Seite der Biodiversität.* Science Notes, Tübingen, Germany (invited talk).

► *Plant diversity effects on the stability of plant biomass production.* sDiv workshop Plant diversity effects on ecosystem resistance to and recovery from perturbations – workshop II in Leipzig, Germany.

► *Pervasive effects of exotic earthworm invasion on the biodiversity of North American forests: a meta-analysis.* 10th International Symposium on Earthworm Ecology, Athens, GA, USA (***Plenary Talk***).

► *Aboveground–belowground interactions in a changing world.* Department of Plant Biology Seminar, University of Georgia, Athens, GA, USA (invited).

► *How to integrate new visions – Experimental Interaction Ecology.* iDiv workshop 'How to integrate new visions at iDiv', German Centre for Integrative Biodiversity Research (iDiv), Leipzig, Germany.

► *Plant diversity effects on soil microbial communities.* Workshop on forest diversity effects on ecosystem functioning, Royal Holloway University of London, Egham, UK (invited).

► *Identifying the drivers of belowground communities using structural equation modelling.* sDiv Workshop: 'A framework to improve our understanding of the distribution of global soil biodiversity: establishing the first quantitative synthesis (sOILDIV)', German Centre for Integrative Biodiversity Research (iDiv), Leipzig, Germany.

► *Flood effects on belowground consumers*. Workshop of the Research Consortium of the Jena Experiment, Jena, Germany.

► *Scaling of aboveground–belowground networks*. ‘Networks Workshop’, Friedrich Schiller University Jena, Germany.

► *The design of the Jena Experiment*. ‘Networks Workshop’, Friedrich Schiller University Jena, Germany.

2013 (13 talks)

► *Soil biodiversity – too redundant to be true?* Oberseminar Allgemeine Botanik und Pflanzenphysiologie, Friedrich Schiller University Jena, Germany (invited).

► *Stoichiometric responses of soil organisms to forest management*. Biodiversity Exploratories on-site review, Potsdam, Germany.

► *Unraveling the mechanisms underlying biodiversity–ecosystem functioning relationships using path analysis*. Biodiversity Exploratories workshop “Ecosystem Processes”, MPI-BGC Jena, Germany (invited ***Keynote Talk***).

► *Plant diversity effects on soil food webs are stronger than those of elevated CO_2 and N deposition in a long-term grassland experiment*. Annual meeting of the GfÖ (Gesellschaft für Ökologie), Potsdam, Germany.

► *Plant diversity effects on soil food webs are stronger than those of elevated CO_2 and N deposition in a long-term grassland experiment*. Annual meeting of the Ecological Society of America (ESA), Minneapolis, USA.

► *Soil animals and some major processes they drive*. Ph.D. course at International Max Planck Research School for Global Biogeochemical Cycles, MPI for Biogeochemistry, Jena, Germany (invited).

► *Soil biodiversity – too redundant to be true?* Faculty Colloquium, Friedrich Schiller University Jena, Germany (invited).

► *Soil biodiversity – too redundant to be true?* POPBIO meeting, 26th Plant Population Biology Conference, Tartu, Estonia (invited ***Keynote Talk***).

► *Aboveground – belowground interactions in a changing world and iDiv.* Symposium on ‘Integrative Biodiversity Research’, Full Professorship ‘Experimental Interaction Ecology’, German Centre for Integrative Biodiversity Research (iDiv), Germany.

► *Licht in den dunklen Boden: Steuergrößen und funktionelle Wichtigkeit von Biodiversität im Boden.* Leipzig Book Fair 2013, Leipzig, Germany (invited).

► *TreeDivNet going belowground?* Annual meeting of the TreeDivNet, Florence, Italy.

► *Soil biodiversity – too redundant to be true?* Seminar, UFZ Halle, Germany (invited).

► *Plant diversity effects on soil organisms and functions – putting the story into perspective*. Institute Seminar, Max-Planck-Institute for Chemical Ecology, Jena, Germany (invited).

2012 (7 talks)

► *The Jena Experiment – Results*. DAAD Science Tour 2012, Understanding Biodiversity and Climate Change, Jena, Germany (invited).

► *The Jena Experiment – Experimental design*. DAAD Science Tour 2012, Understanding Biodiversity and Climate Change, Jena, Germany (invited).

► *Aboveground–belowground interactions in a changing world.* Symposium W3 Professor for Ecology and Evolution of Animals, Technical University of Munich, Freising, Germany (invited).

► *Plant diversity effects on ecosystem functioning depend on decomposer diversity and identity*. Annual meeting of the GfÖ (Gesellschaft für Ökologie), Lüneburg, Germany.

► *Plant diversity effects on soil organisms and resulting feedback effects: the longer you look, the more you see*. Workshop 10 years Jena Experiment, Jena, Germany.

► *Soil biota and processes in a changing world*. Forest Ecology Seminar, University of Minnesota, MN, USA.

► *Effects of warming on soil biota in the B4WarmED experiment*. B4WarmED Workshop 2012, University of Minnesota, MN, USA.

2011 (8 talks)

► *Plant diversity effects on ecosystem functioning depend on decomposer diversity and identity*. Forest Ecology Seminar, University of Minnesota, MN, USA.

► *Aboveground–belowground interactions in a changing world.* Symposium W2 Professor for Terrestrial Ecology, Friedrich Schiller University Jena, Germany (invited).

► *Aboveground–belowground interactions as a source of complementarity effects in biodiversity experiments*. Annual Meeting of the Ecological Society of America, Austin, TX, USA (invited).

► *Global change below ground: impacts of elevated CO_2, N and summer drought on soil food webs and biodiversity*. Cedar Creek Summer Symposium, Cedar Creek Ecosystem Science Reserve, MN, USA (invited).

► *Interactive effects of global warming and "global worming"*. Annual Meeting of the Canadian Geophysical Union, Banff, Kanada.

► *Impacts of aboveground diversity loss on belowground processes*. B4WarmED Workshop, Cloquet Forestry Centre, MN, USA (invited).

► *Aboveground – belowground interactions in a changing world*. Forest Ecology Outburst, University of Minnesota, MN, USA (invited).

► *Belowground functional shifts*. B4WarmED Symposium, University of Minnesota, MN, USA.

2010 (7 talks)

► *Aboveground – belowground interactions in a changing world*. Forest Ecology Seminar, University of Minnesota, MN, USA.

► *Aboveground – belowground interactions in a changing world*. Prof. S. Hobbie's lab group seminar, University of Minnesota, MN, USA (invited).

► *Importance of earthworm-seed interactions for the composition of plant communities: a review*. 5th International Symposium-Workshop on Frugivores and Seed Dispersal, Montpellier, France (invited ***Plenary Talk***).

► *Impacts of aboveground diversity loss on belowground processes*. Soil Science Seminar, University of Nanjing, China (invited).

► *Linkage between aboveground and belowground diversity*. Colloquium of Soil Science, University of Hohenheim, Germany (invited).

► *Plant – soil fauna interactions.* Workshop of the Research Consortium of the Jena Experiment, Jena, Germany.

► *The role of soil fauna for plant performance and ecosystem functioning in a plant diversity gradient.* Workshop of the Research Consortium of the Jena Experiment, Jena, Germany.

2009 (5 talks)

► *Soil animals affect the diversity-ecosystem function relationship*. Oberseminar Biodiversität, University of Göttingen, Germany.

► *Soil animals affect the diversity-ecosystem function relationship*. Lunchtime Seminar, Imperial College London, Silwood Park, London, England (invited).

► *Additive Effekte primärer und sekundärer Zersetzer auf Winterweizen beeinflussen oberirdische Herbivore*. GfÖ Workshop: Biodiversität im Boden, Berlin, Germany.

► *Experimenting with earthworms in the field: The method and impacts of earthworms on the diversity-ecosystem functioning relationship*. DBG Workshop: Experimenting with earthworms, Trier, Germany (invited).

► *Do animals alter the diversity-stability relationship?* Workshop of the Research Consortium of the Jena Experiment, Jena, Germany.

2008 (7 talks)

► *Invasibility of experimental grassland communities: The role of plant diversity, plant functional group identity and earthworms*. EURECO-GfÖ meeting: Biodiversity in an ecosystem context, Leipzig, Germany.

► *Invasibility of experimental grassland communities: The role of plant diversity, plant functional group identity and earthworms*. GfÖ Workshop: Multitrophic Interactions, Göttingen, Germany.

► *Earthworms in a plant diversity gradient: Direct and indirect effects on plant competition and establishment*. PhD disputation, Darmstadt, Germany.

► *Direct effects of earthworms on plant communities*. Seminar: Probleme der Freilandökologie, Gießen, Germany (invited).

► *Split plot analysis*. Weekly Seminar, Darmstadt University of Technology.

► *Decomposers in the Jena Experiment.* Workshop of the Research Consortium of the Jena Experiment, Jena, Germany.

► *Multilevel stability in a plant diversity gradient.* Workshop of the Research Consortium of the Jena Experiment, Jena, Germany.

2007 (4 talks)

► *Earthworms as drivers of the competition between grasses and legumes*. 37th Annual Conference Ecological Society of Germany, Austria and Switzerland, Marburg, Germany.

► *Earthworms as drivers of the competition between grasses and legumes*. ESA/SER Joint Meeting, San José, California, USA.

► *The role of soil fauna for plant performance and ecosystem functioning in a plant diversity gradient.* Workshop of the Research Consortium of the Jena Experiment, Jena, Germany.

► *Soil fauna in the Jena Experiment.* Workshop of the Research Consortium of the Jena Experiment, Jena, Germany.

2006 (3 talks)

► *Invasion of European earthworms into a North American aspen forest: Effects on soil chemistry, microflora, fauna and vegetation*. The 8th International Symposium on Earthworm Ecology, Kraków, Poland.

► *The role of soil fauna for plant performance and ecosystem functioning in a plant diversity gradient.* Workshop of the Research Consortium of the Jena Experiment, Jena, Germany.

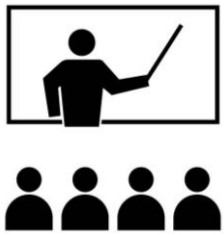
► *Earthworms as drivers of the competition between grasses and legumes.* Workshop of the Research Consortium of the Jena Experiment, Jena, Germany.

2005 (2 talks)

► *Invasion of European earthworms in a North American aspen forest: Effects on soil chemistry, microflora, fauna, and vegetation*. Workshop above ground and below ground: Decomposer and primary producer interactions, Joint Meeting of the GfÖ and DBG, Witzenhausen, Germany.

► *The role of soil fauna for plant performance and ecosystem functioning in a plant diversity gradient.* Workshop of the Research Consortium of the Jena Experiment, Jena, Germany.

Teaching



2024 –	*Advanced Ecology/Ökologie für Fortgeschrittene*, lecture 2 SWS for bachelor students (with Prof. Dr. Christian Wirth & Alexandra Weigelt; annual, every winter semester)
2024 –	*Ökologie*, lecture 2 SWS for bachelor students (with Prof. Dr. Christian Wirth; annual, every summer semester)
2024	*Biodiversity Experiments*, yDiv graduate short course, 2 ECPS
2023	Zoological excursions for teachers; 2-days excursions; Leipzig University
2021 –	Lectures "*Introduction to scientific writing – structure & important elements*", "*To be or not to be… an author*", and "*How to deal with reviewers' comments*" in the lecture series in the context of the "EIE Stats Course" for Bachelor and Master students (with many members of the Experimental Interaction Ecology group)
2021 –	Lecture "*To be or not to be… an author of a scientific publication*" in the lecture series in the context of the "Theoreticum" (BIO-219 & BCH-0903) for Master students (with many professors at Leipzig University)
2020	Lecture series "*Integrative Biodiversity-Ecosystem Functioning Research and Data Handling Implications*" for PhD students in the Jena Experiment (lead teacher; lecture with many researchers in the Jena Experiment)
2020 –	Master module "*Biodiversity and Ecosystem Functioning in Terrestrial Ecosystems*" (11-BIO-209) (lecture with Prof. Dr. Alexandra Weigelt and Prof. Dr. Christian Wirth; pratical with Prof.

	Dr. Alexandra Weigelt, Dr. Simone Cesarz, Dr. Katie Barry), 8 SWS
2019 –	yDiv course „*Introduction to Integrative Biodiversity Science*“ (lecture and seminar), 1 CP (2x in 2019, 1x in 2020, 1x in 2021, 1x in 2022, 1x in 2023)
2019 –	Lecture and seminar in “*Aktuelle Fragen in den Lebenswissenschaften I*” (annual, every winter semester)
2017	Effects of invasive earthworms on biogeochemical soil characteristics – a meta-analysis, iDiv Summer School, 2 weeks
2017 –	*Einführung in die Methoden der wissenschaftlichen Arbeit*, practical and seminar for bachelor students (annual, every winter semester)
2016 – 2024	*Einführung in die Ökologie*, lecture 3 SWS for bachelor students (with Prof. Dr. Christian Wirth; annual, every winter semester)
2016	*Biodiversity Experiments*, yDiv graduate short course, 2 ECPS
2016	*Effects of invasive earthworms on soil biodiversity – a meta-analysis*, yDiv Summer School, 1 week
2015	*Tierökologie* at Leipzig University, lecture 2 SWS
2015	*Within and across-experiment synthesis*, yDiv Summer School, full-day course
2014	*Biodiversity Experiments*, yDiv graduate short course, 2 ECPS
2014	*Writing a scientific paper,* lecture, 1 SWS
2014	*Writing a scientific paper*, practical, 2 SWS
2013	*Ecological Experiments* at the FSU Jena, practical, 2 SWS
2013	*Experiments in Ecology* at the FSU Jena, seminar, 1 SWS
2013	*Experimental Ecology* at the FSU Jena, lecture, 2 SWS
2013	*How to write a paper* at the FSU Jena, practical, 2 SWS
2013	*Einführung in die Bodenökologie* at the FSU Jena, lecture 2 SWS
2013	*Grundpraktikum Ökologie*, 3 SWS
2013	*Vertiefungspraktikum Ökologie* at the FSU Jena
2013	*Kleine Ökologische Exkursionen* at the FSU Jena
2013	*Classic Papers in Ecology Seminar* at the FSU Jena, 2 SWS
2012 – 2014	*Methods in Field Ecology* at the FSU Jena
2012 – 2014	*Institute Seminar* at the FSU Jena, 1 SWS

2012	*Advanced Ecological Seminar* at the FSU Jena, 2 SWS
2012	Lecture/Project *Biodiversität* at the TUM, 4 SWS
2012	*Terrestrial Practical* (basic practical) at the TUM, 4 SWS
2012	*Research Practical in Terrestrial Ecology* at the TUM, 16 SWS
2008, 2012	Guest lectures on *Split-plot analysis*
2004 – 2009	Leader of fourteen zoological expeditions at the Darmstadt University of Technology and at the University of Göttingen

Miscellaneous

2011	Parental leave, 6 months
2009	Parental leave, 3 months