Angelos Amyntas

Personal information

Date of birth: 1 July 1988

Nationality: Greek

Residence: Neustrelitz, Germany

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Education

2020-2024	PhD in Ecology - Friedrich Schiller University Jena, Germany research group: Theory in Biodiversity Science - iDiv Thesis subject: *Multi-trophic energy fluxes in soil food webs along plant diversity-productivity gradients; supervised* by Dr. Ulrich Brose
2016-2019	Master in Environmental Biology - University of Crete, Greece Thesis subject: *The formation of Carabidae assemblages in wetland ecosystems of Crete with a focus on artificial wetlands*
2014	Degree in Biology - Aristotle University of Thessaloniki, Greece

Current position

2025.02.01 -	Postdoc - Anne McLeod's Computational Ecology group Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB)

Previous positions

2023.03.01 - 2024.09.30	Research employee - Friedrich Schiller University Jena
2022.03.01 - 2023.02.28	Research employee - University of Göttingen
2020.03.01 - 2022.02.28	Research employee - Friedrich Schiller University Jena
2019.10.15 - 2020.02.28	Research assistant - University of Leipzig

Skills & Experience

statistics	GL(M)Ms mostly through brms; I can work with fairly complex multilevel models in brms, or with simpler models directly in Stan; some familiarity with SEMs, GAMs
coding	R (advanced); Julia (basic); NetLogo (beginner)
software	InkScape, Adobe Illustrator
field	I coordinated and participated in the set-up and sampling of several field and mesocosm experiments. I have also trained and overseen the work of student assistants.
lab	microscopy, soil fauna extraction methods, invertebrate identification

Conferences

2023	British Ecological Society - Liverpool (poster)
2023	German Ecological Society - Leipzig (poster)
2022	British Ecological Society - Edinburgh (talk)
2022	German & French Ecological Society - Metz (talk)
2022	SORTEE – online (reproducibility workshop)

Student supervision

2022-2024	supervision of 2 master students

List of publications

as first author:

Amyntas, A., Gauzens, B., Ciobanu, M., Warnke, L., Maraun, M., Salamon, J.-A., Merkle, M., Bassi, L., Hennecke, J., Lange, M., Gleixner, G., Scheu, S., Eisenhauer, N., & Brose, U. (2025). Shared community history strengthens plant diversity effects on below-ground multitrophic functioning. Journal of Animal Ecology, 94(4), 555–565. https://doi.org/10.1111/1365-2656.14241

Amyntas, A., Eisenhauer, N., Scheu, S., Klarner, B., Ilieva-Makulec, K., Madaj, A.-M., Gauzens, B., Li, J., Potapov, A. M., Rosenbaum, B., Bassi, L., Berkum, P. M. van, & Brose, U. (2024). Soil community history strengthens belowground multitrophic functioning across plant diversity levels in a grassland experiment. Nature Communications, 15(1). https://doi.org/10.1038/s41467-024-54401-z

Amyntas, A., Berti, E., Gauzens, B., Albert, G., Yu, W., Werner, A. S., Eisenhauer, N., & Brose, U. (2023). Niche complementarity among plants and animals can alter the biodiversityecosystem functioning relationship. Functional Ecology, 37(10), 2652–2665. https://doi.org/10.1111/1365-2435.14419

as contributing author:

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, S096098222500346X. https://doi.org/10.1016/j.cub.2025.03.034

Hennecke, J., Bassi, L., Albracht, C., **Amyntas, A.**, Bergmann, J., Eisenhauer, N., Fox, A., Heimbold, L., Heintz-Buschart, A., Kuyper, T. W., Lange, M., Pinheiro Alves De Souza, Y., Rai, A., Solbach, M. D., Mommer, L., & Weigelt, A. (2025). Plant Species Richness and the Root Economics Space Drive Soil Fungal Communities. Ecology Letters, 28(1), e70032. https://doi.org/10.1111/ele.70032

Sünnemann, M., Barnes, A. D., **Amyntas, A.**, Ciobanu, M., Jochum, M., Lochner, A., Potapov, A. M., Reitz, T., Rosenbaum, B., Schädler, M., Zeuner, A., & Eisenhauer, N. (2024). Sustainable Land Use Strengthens Microbial and Herbivore Controls in Soil Food Webs in Current and Future Climates. Global Change Biology, 30(11), e17554. https://doi.org/10.1111/gcb.17554

Li, Y., Schuldt, A., Ebeling, A., Eisenhauer, N., Huang, Y., Albert, G., Albracht, C., **Amyntas, A.**, Bonkowski, M., Bruelheide, H., Bröcher, M., Chesters, D., Chen, J., Chen, Y., Chen, J.-T., Ciobanu, M., Deng, X., Fornoff, F., Gleixner, G., … Liu, X. (2024). Plant diversity enhances ecosystem multifunctionality via multitrophic diversity. Nature Ecology & Evolution, 1–11. https://doi.org/10.1038/s41559-024-02517-2

Dyer, A., Ryser, R., Brose, U., **Amyntas, A.**, Bodnar, N., Boy, T., Franziska Bucher, S., Cesarz, S., Eisenhauer, N., Gebler, A., Hines, J., Kyba, C. C. M., Menz, M. H. M., Rackwitz, K., Shatwell, T., Terlau, J. F., & Hirt, M. R. (2023). Insect communities under skyglow: diffuse night-time illuminance induces spatio-temporal shifts in movement and predation. Philosophical Transactions of the Royal Society B: Biological Sciences, 378(1892). https://doi.org/10.1098/rstb.2022.0359

Terlau, J. F., Brose, U., Eisenhauer, N., **Amyntas, A.**, Boy, T., Dyer, A., Gebler, A., Hof, C., Liu, T., Scherber, C., Schlägel, U. E., Schmidt, A., & Hirt, M. R. (2023). Microhabitat conditions remedy heat stress effects on insect activity. Global Change Biology, 29(13), 3747–3758. https://doi.org/10.1111/gcb.16712

Jochum, M., Barnes, A. D., Brose, U., Gauzens, B., Sünnemann, M., **Amyntas, A.**, & Eisenhauer, N. (2021). For flux's sake: General considerations for energy-flux calculations in ecological communities. Ecology and Evolution, 11(19), 12948–12969. https://doi.org/10.1002/ece3.8060