

Stanford

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Bio

STANFORD ADVISORS

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Publications

PUBLICATIONS

- **Climate mismatches with ectomycorrhizal fungi contribute to migration lag in North American tree range shifts.** *Proceedings of the National Academy of Sciences of the United States of America*
Van Nuland, M. E., Qin, C., Pellitier, P. T., Zhu, K., Peay, K. G.
2024; 121 (23): e2308811121
- **Ectomycorrhizal fungi alter soil food webs and the functional potential of bacterial communities.** *mSystems*
Berrios, L., Bogar, G. D., Bogar, L. M., Venturini, A. M., Willing, C. E., Del Rio, A., Ansell, T. B., Zemaitis, K., Velickovic, M., Velickovic, D., Pellitier, P. T., Yeam, J., Hutchinson, et al
2024: e0036924
- **A risk assessment framework for the future of forest microbiomes in a changing climate** *NATURE CLIMATE CHANGE*
Willing, C. E., Pellitier, P. T., Van Nuland, M. E., Alvarez-Manjarrez, J., Berrios, L., Chin, K. N., Villa, L. M., Yeam, J. J., Bourque, S. D., Tripp, W., Leshyk, V. O., Peay, K. G.
2024
- **Potential for functional divergence in ectomycorrhizal fungal communities across a precipitation gradient.** *ISME communications*
Pellitier, P. T., Van Nuland, M., Salamov, A., Grigoriev, I. V., Peay, K. G.
2024; 4 (1): ycae031
- **Positive interactions between mycorrhizal fungi and bacteria are widespread and benefit plant growth.** *Current biology : CB*
Berrios, L., Yeam, J., Holm, L., Robinson, W., Pellitier, P. T., Chin, M. L., Henkel, T. W., Peay, K. G.
2023
- **Niche modelling predicts that soil fungi occupy a precarious climate in boreal forests** *GLOBAL ECOLOGY AND BIOGEOGRAPHY*
Qin, C., Pellitier, P. T., Van Nuland, M. E., Peay, K. G., Zhu, K.
2023
- **Fungal community composition and genetic potential regulate fine root decay in northern temperate forests.** *Molecular ecology*
Argiroff, W. A., Zak, D. R., Upchurch, R. A., Pellitier, P. T., Belke, J. P.
2023
- **Embracing climate emotions to advance higher education** *Nature Climate Change*
Pellitier, P., Ng, M., Castaneda, S., Moser, S., Wray, B.
2023
- **Microbes modify soil nutrient availability and mediate plant responses to elevated CO2** *PLANT AND SOIL*
Pellitier, P. T., Jackson, R. B.
2022
- **Ectomycorrhizal root tips harbor distinctive fungal associates along a soil nitrogen gradient** *FUNGAL ECOLOGY*

Pellitier, P. T., Zak, D. R.
2021; 54

- **Decay by ectomycorrhizal fungi couples soil organic matter to nitrogen availability** *ECOLOGY LETTERS*
Argiroff, W. A., Zak, D. R., Pellitier, P. T., Upchurch, R. A., Belke, J. P.
2022; 25 (2): 391-404
- **From DNA sequences to microbial ecology: Wrangling NEON soil microbe data with the neonMicrobe R package** *ECOSPHERE*
Qin, C., Bartelme, R., Chung, Y., Fairbanks, D., Lin, Y., Liptzin, D., Muscarella, C., Naithani, K., Peay, K., Pellitier, P., St Rose, A., Stanish, L., Werbin, et al
2021; 12 (11)
- **Ectomycorrhizal access to organic nitrogen mediates CO₂ fertilization response in a dominant temperate tree.** *Nature communications*
Pellitier, P. T., Ibanez, I., Zak, D. R., Argiroff, W. A., Acharya, K.
2021; 12 (1): 5403
- **Coupled Shifts in Ectomycorrhizal Communities and Plant Uptake of Organic Nitrogen Along a Soil Gradient: An Isotopic Perspective** *ECOSYSTEMS*
Pellitier, P. T., Zak, D. R., Argiroff, W. A., Upchurch, R. A.
2021
- **Variation in the Size-Structure of Dominant Branching Coral Taxa (Acroporidae: Acropora) and (Pocilloporidae: Pocillopora) in New Ireland Province, Papua New Guinea** *PACIFIC SCIENCE*
Pellitier, P. T.
2020; 74 (3): 283–96