

# Camille S. Delavaux

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Winterthurerstrasse 557 • Zürich, 8051 Switzerland

## Academic appointments

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<b>Lead Scientist, ETH Zürich</b> , Zürich, Switzerland	2023-
<i>Swiss National Science Foundation Postdoctoral Fellow</i>	
<b>Post-doctoral Researcher, ETH Zürich</b> , Zürich, Switzerland	2021-23
<i>Swiss National Science Foundation Postdoctoral Fellow, Smithsonian Tropical Research Institute Fellow</i>	
<b>Adjunct Researcher, University of Kansas</b> , Lawrence, KS, USA	2021-

## Education

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<b>PhD Ecology and Evolutionary Biology (Honors), University of Kansas</b> , Lawrence, KS, USA	2021
<b>Thesis:</b> Biogeographic plant-microbe patterns and process: natural and anthropogenic impacts across three spatial scales <i>Madison and Lila Self Fellow, Fulbright Student, National Geographic Young Explorer, Smithsonian Tropical Research Institute Fellow</i>	
<b>MS Environmental Science, Yale University</b> , New Haven, CT, USA	2016
<b>Thesis:</b> Nutrient Enrichment Effects on Mycorrhizal Fungi in an Andean Tropical Montane Forest	
<b>Bachelors of Sciences and Arts, Lehigh University</b> , Bethlehem, PA, USA	2014
<b>Majors:</b> B.S. Earth and Environmental Science; B.A. Spanish Language and Literature (Honors) <b>Minors:</b> Environmental Studies; Latin American Studies <b>Study Abroad:</b> Ecuador, India, Spain, Costa Rica <b>Academic Honors:</b> Multiple Dean's List Recipient, Contribution to Student Life Award	
<b>Languages:</b> Fluent English, Fluent French, Fluent Spanish, A1 German	

## Publications

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### Published

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| <b>24 Delavaux, C.S.</b> , Allen, A., Sturmer, S.L., Premier, S., Schutte, U.M.E., Drown, D.M., Ramos, R.J., Crowther, T.W., Bever, J.D., Uncovering diversity within the Glomeromycota: novel clades, family distributions and land use sensitivity, <i>Ecology and Evolution</i> | 2025 |
| <b>23 LaManna, J.A</b> , Hartig, F., Myers, J.A., Bachelot, B., Bagchi, R., Comita, L.S., DeFilippis, D.M., Detto, M., Doolittle, C.J., Freckleton, R.P, Jevon, F.V.,  | 2024 |

- Johnson D.J., Krishnadas, M., Hülsmann, L., Magee, L.J., Mangan, S.A., Milici, V.R., Murengera, A.L.B., Huanca-Nunez, N., Schnitzer, S.A., Smith, D.J.B., Stein, C., Sullivan, M.K., Surendra, A., Torres, E., Umaña, M.N., **Delavaux, C.S.**, Understanding the consequences of local conspecific density effects for plant diversity and community dynamics, *Ecology Letters*
- 22** Crowther, T.W., van Galen, L., Anderson, M., Bakken, L., Baylis, M., Behrenfeld, M., Boyd, P., Brettell, I., Cavicchioli, R., Corinaldesi, C., Danovaro, R., **Delavaux, C.S.**, Donohue, T., Foreman, C., Huisman, J., Jansson, J., Koskella, B., Milligan-McClellan, K., North, J., Peterson, D., Pizza, M., Juan Ramos, J., Reay, D., Remais, J., Rich, V., Ripple, W., Singh, B., Smith, G., Stein, L., Stewart, F., Sullivan, M., Timmis, J., Timmis, K., ; van den Hoogen, J., van Oppen, M., Webster, N., Zohner, C., Rappuoli, R. Scientists' Warning to Humanity: Microbes, Planetary Health and the Sustainable Development Goals, *Cell*, 2024
- 21** **Delavaux, C.S.**, Ramos, R.J., Sturmer, S.L., Bever, J.D., An updated LSU database and pipeline for environmental DNA identification of arbuscular mycorrhizal fungi, *Mycorrhiza*, 2024
- 20** **Delavaux, C.S.**, Crowther, T.W., Bever, J.D., Weigelt, P., Kreft, H., Gora, E.M., Mutualisms weaken the latitudinal diversity gradient among oceanic island, *Nature*, 2024
- 19** Smith, G.R., Bello, C., Bialic-Murphy, L., **Delavaux, C.S.**, Fournier de Lauriere, C., van den Hoogen, J., Lauber, T., Ma, H., Maynard, D.S., Mirman, M., Mo, L., Rebindaine, D., Reek, J.E., Werden, L.K., Wu, Z., Yang, G., Zhao, Q., Zohner, C.M., Crowther, T.W. 10 simple rules for using large language models in science, version 1.0, *PLOS Computational Biology*, 2024
- 18** **Delavaux, C.S.**, Myers, J., ... Maynard, D.S., Crowther, T.W., LaManna, J., Averill, C. Mycorrhizal feedbacks influence global forest structure and diversity, *Communications Biology*, 2023
- 17** **Delavaux, C.S.**, Angst, J.K., Espinosa, H., Brown, M., Petticord, D., Schroeder, J., Broders, K., Herre, E.A., Bever, J.D., Crowther, T.W. Fungal community dissimilarity predicts plant-soil feedback strength in a lowland tropical forest, *Ecology Reports*, 2023
- 16** **Delavaux, C.S.**, Crowther, T.W., Robmann, N.M., ... Maynard, D.S. Native diversity buffers against severity of non-native tree invasions, *Nature*, 2023
- 15** Eck, J.L., **Delavaux, C.S.**, Wilson, D.M., Queenborough, S.A., Comita, L.S. Seedling performance in a dioecious tree species is similar near female and male conspecific adults despite differences in colonization by arbuscular mycorrhizal fungi, *Oikos*, 2023
- 14** **Delavaux, C.S.**, Weigelt, P., Magnoli, S.M., Kreft, H., Crowther, T.W., Bever, J.D. Nitrogen-fixing symbiotic bacteria act as a global filter for plant establishment on islands, *Communications Biology*, 2022
- 13** Bainard, L., Lane, J.M., **Delavaux, C.S.**, Van Koppen, L., Cade-Munun, B.J., Tremblay, J. Soil sample storage conditions impact extracellular enzyme activity and bacterial amplicon diversity metrics in a semi-arid ecosystem, *Soil Biology and Biochemistry*, 2022
- 12** **Delavaux, C.S.** Bever, J.D. Evidence for the evolution of mycorrhizal response in post-agricultural grasslands, *Ecology and Evolution*, 2022

- 11 **Delavaux, C.S.**, Ramos, R., Sturmer, S.L., Wagner, M.R., Morton, J.B., Bever, J.D. Environmental identification of arbuscular mycorrhizal fungi using the LSU rDNA gene region: an expanded database and improved pipeline, *Mycorrhiza*. 2022
- 10 **Delavaux, C.S.**, Weigelt, P., Dawson, W., Essl, F., Kreft, H., Pregl, J., Pyšek, P., van Kleunen, M., König, C., Stein, A., Taylor, A., Winter, M., Schultz, P.A., Bever, J.D. Mycorrhizal types influence island biogeography of plants, *Communications Biology*. 2021
- 9 Mehring, A.S., Martin, R.M., Branoff, B.L., **Delavaux, C.S.**, James, E.B., Quispe, J.J., Yaffar, D. Leaf-cutting ant (*Atta cephalotes*) nests may be hotspots of methane emissions in tropical forests, *Pedobiologia*. 2021
- 8 **Delavaux, C.S.**, Sturmer, S.L., Wagner, M.R., Schütte, U., Morton, J.B., Bever, J.D. Utility of LSU for environmental sequencing of arbuscular mycorrhizal fungi: a new reference database and pipeline, *New Phytologist*. 2021
- 7 **Delavaux, C.S.**, Schemanski, J.L., House, G., Tipton, A.G., Bever, J.B. Root pathogen diversity and composition varies with climate in undisturbed grasslands, but less so in anthropogenically-disturbed grasslands, *International Society for Microbial Ecology*. 2020
- 6 **Delavaux, C.S.**, Bever, J.D., Karpinnen, E., Bainard, L. Keeping it cool: Soil sample cold pack storage and DNA shipment up to one month does not impact metabarcoding results, *Ecology and Evolution*. 2020
- 5 Dodds, W.K., Fattahi, N., Barua, N., Connell, K., Klompen, A.M.L., **Delavaux, C.S.**, Hauser, E., Masigol, M., Jumpponen, A., Billings, S., Hansen, P., Pandey, A., Kelly, M.C. Connections and feedbacks: aquatic, plant, and soil microbiomes in a changing heterogeneous world, *BioScience*. 2020
- 4 **Delavaux, C.S.**, Weigelt, P., Dawson, W., Essl, F., Kreft, H., Pregl, J., Pyšek, P., van Kleunen, M., König, C., Stein, A., Duchicela, J., Winter, M., Schultz, P.A., Bever, J.D. Mycorrhizal fungi influence global plant geography, *Nature Ecology and Evolution*. 2019
- 3 Eck, J.L., Stump, S.M., **Delavaux, C.S.**, Mangan, S.A., Comita, L.S. Evidence of within-species specialization by soil microbes in a natural tropical tree population, *Proceedings of the National Academic of Sciences*. 2019
- 2 **Delavaux, C.S.**, Smith, L.M., Keubbing, S.E. Beyond nutrients: A meta-analysis of the diverse effects of arbuscular mycorrhizal fungi on plants and soils. *Ecology*. 2017
- 1 **Delavaux, C.S.**, Camenzind, T., Homeier, J., Jiménez-Paz, R., Queenborough, S.A., Ashton, M.S. Nutrient enrichment effects on mycorrhizal fungi in an Andean tropical montane Forest, *Mycorrhiza*. 2017

## In Review

- 4 *Neves, A.S. van Galen, L.G., Vohník, M., Peter, M., Martino, E., Crowther, T.W., Delavaux, C.S.* Ericoid mycorrhizal growth response is influence by host plant phylogeny, *Mycorrhiza*
- 3 Doolittle C.J., **Delavaux, C.S.**, Averill, C., Crowther, T.W., LaManna, J.A. Testing the Stress Gradient Feedback Hypothesis: Host-Affinity of Pathogenic and Ectomycorrhizal Fungi Across an Abiotic Stress Gradient, *Journal of Ecology*
- 2 Muller, L., Crowther, T.W., **Delavaux, C.S.** Naturalized N-fixing plant species overcome the mutualist filter experienced by native species on islands worldwide, *Global Ecology and Biogeography*

- 1 **Delavaux, C.S.,** Burrill, H, Menning, R., Bever, J.D. Origin matters: mycorrhizal growth response and induced resistance to pathogens depends on mycorrhizal and pathogen source, *New Phytologist*

## Journals Reviewed

*Nature Communications, Ecology, Frontiers in Microbiology, PLOS One, Oikos, Mycorrhiza, Biological Invasions, Ecography, Canadian Journal of Soil Science, Global Ecology and Biogeography, American Journal of Botany, Fungal Ecology, New Phytologist, Plant and Soil, Journal of Ecology, Ecology Letters, Microbial Ecology* 2017-

## Grants Received

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ETH Career Seed Award – 30,000 CHF	2024
EU WILDCARD Project 101081177 (Funded by Swiss Secretariate for Education Research and Innovation) – 411,063 CHF (total € 8,946,199.75)	2023-27
Research Experience Microbiomes Network – \$1,800	2023
Swiss National Science Foundation Postdoctoral Fellowship (2 years) – 246,279 CHF	2022
New Phytologist Next Generation Scientists Symposium ~ € 2,000	2022
Argersinger Dissertation Award – \$1,250	2021
Smithsonian Tropical Research Institute Research Funding – \$7,000	2020
University of Kansas Field Station Student Award – \$400	2020
Smithsonian Tropical Research Institute/KU Fellowship ~ \$10,000	2020
University of Kanas Field Station Student Award – \$500	2019
University of Kanas EEB Travel Award – \$350	2019
University of Kanas Open Access Author Fund – \$1,500	2019
Fulbright U.S. Student Program Award (Research) ~ \$13,000	2018-19
University of Kanas EEB Travel Award (Ecological Society of America) – \$350	2018
Graduate Scholarly Presentation Fund (Ecological Society of America) – \$500	2018
University of Kanas Doctoral Student Research Fund – \$1,500	2017
University of Kanas EEB Botany Endowment Funds – \$5,000	2017
National Geographic Young Explorer's Grant – \$5,000	2017-19
University of Kanas Madison and Lila Self Fellowship (4 years) ~ \$180,000	2017-21
University of Kanas Office of International Programs Study Abroad Scholarship – \$5,000	2016
University of Kanas Women 4 KU Women Fund – \$500	2016
Yale Master's Student Travel Funds – \$900	2016
ESA Soil Ecology Section Student Travel Award – \$250	2016
Anne Armstrong-Colaccino Scholarship (2 years) – \$30,000	2014-16
Yale F&ES Tropical Resources Institute Endowment Fellowship – \$6,000	2015
Yale Master's Student Travel Funds – \$750	2015
Tinker Foundation Field Research Grant – \$1,000	2015
Carpenter/Sperry Fund – \$1,875	2015
Yale F&ES Summer Internship and Research Fund – \$700	2015
Lehigh Student Opportunity Fund ~ \$2,000	2011-14

Lehigh Modern Languages and Literature Study Abroad Grant ~ \$1,000	2013
Lehigh University of Minnesota Study Abroad Grant ~ \$4,000	2013
Lehigh Environmental Initiative Grant ~ \$3, 000	2013
Lehigh Green Fund – \$2,000	2012
Lehigh College of Arts and Sciences Research Grant – \$2,000	2011
Lehigh Earth and Environmental Science Undergraduate Research Grant – \$1,000	2010

#### *Solicited Company Donations*

OPS Diagnostics Product Donation ~ \$220	2020
OMNI Inc. Homogenizer Donation ~ \$12,000	2019
Qiagen Product Donation ~ \$6,400	2018

#### **Invited Presentations**

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<b>27</b> IV sPlot Workshop, Halle, Germany	2025
<b>26</b> Cary Institute of Ecosystem Studies Seminar, NY, USA	2025
<b>25</b> Department of Biology Seminar, Duke University, NC, USA	2025
<b>24</b> Department of Biology Seminar, Boston University, MA, USA	2025
<b>23</b> Department of Environmental Studies Seminar, New York University, NY, USA	2025
<b>22</b> Department of Ecology and Evolutionary Biology Seminar, Cornell University, NY, USA	2024
<b>21</b> International Mycorrhizal Society Seminar, Online	2024
<b>20</b> Kansas Biological Survey, University of Kansas, KS, USA	2024
<b>19</b> 12 <sup>th</sup> International Conference on Mycorrhiza, Manchester, United Kingdom	2024
<b>18</b> Department of Fundamental Microbiology, University of Lausanne, Lausanne, Switzerland	2024
<b>17</b> Department of Biology Seminar, University of Pennsylvania, Philadelphia, PA, USA	2024
<b>16</b> Department of Ecology and Evolutionary Biology Seminar, Princeton University, Princeton, NJ, USA	2024
<b>15</b> Agroscope, Zürich, Switzerland	2023
<b>14</b> EU GrantsAccess “Funding for Postdocs”	2023
<b>13</b> Swiss Postdoctoral Fellowship Exchange Forum, Zürich, Switzerland	2022
<b>12</b> New Phytologist Next Generation Scientists Symposium, Tartu, Estonia	2022
<b>11</b> Ecological Society of America, Montreal, Canada	2022
<b>10</b> 11 <sup>th</sup> International Conference on Mycorrhiza, Beijing, China	2022
<b>9</b> Tyson Research Center Summer Seminar Series	2022
<b>8</b> National Parks Board, Singapore	2021
<b>7</b> China Agricultural University, Beijing, China	2021
<b>6</b> REU NSF Dimensions, University of Kansas, Lawrence, KS USA	2020
<b>5</b> Red Hot Research, University of Kansas, Lawrence, KS, USA	2019
<b>4</b> 10 <sup>th</sup> International Conference on Mycorrhiza, Merida, Mexico	2019
<b>3</b> Qiagen Webinar	2018
<b>2</b> International Programs Advisory Board Meeting, University of Kansas, Lawrence, KS USA	2017
<b>1</b> Tri Beta Biological Society Guest Speaker, University of Kansas, Lawrence, KS USA	2017

## **Declined Invited Presentations**

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4 British Ecological Society, Liverpool, United Kingdom	2024
3 Barro Colorado Island – 100 years Celebration, Smithsonian Tropical Research Institute, Panama	2024
2 Canadian Society of Ecology and Evolution, Vancouver, Canada	2024
1 2 <sup>nd</sup> Swiss Microbiomes Forum, Zürich, Switzerland	2024

## **Contributed Presentations**

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24 European Geosciences Union, Vienna, Austria	2025
23 New Phytologist symposium: Ecological and evolutionary consequences of plant-fungal invasions, Campinas, Brazil (Oral Presentation)	2024
22 Ecological Society of America, Portland, Oregon, USA (Oral Presentation)	2023
21 Society of Island Biology, Lipari, Italy (Oral Presentation)	2023
20 Madison and Lila Self Fellowship Poster Session, University of Kansas, Lawrence, KS USA (Poster Presentation)	2020
19 Ecology Seminar Talk, University of Kansas, Lawrence, KS USA (Oral Presentation)	2020
18 Ecology Seminar Talk, University of Kansas, Lawrence, KS USA (Oral Presentation)	2019
17 Madison and Lila Self Fellowship Poster Session, University of Kansas, Lawrence, KS USA (Poster Presentation)	2019
16 Fulbright Enrichment Seminar, Lima, Peru (Oral Presentation)	2019
15 Ecological Society of America Poster, New Orleans, Louisiana, USA (Poster Presentation)	2018
14 Madison and Lila Self Fellowship Poster Session, University of Kansas, Lawrence, KS USA (Poster Presentation)	2017
13 9 <sup>th</sup> International Conference on Mycorrhiza, Prague, CZ (Oral Presentation)	2017
12 Ecology Seminar Talk, University of Kansas, Lawrence, KS USA (Oral Presentation)	2016
11 Ecological Society of America Annual Meeting, Fort Lauderdale, FL, USA (Poster Presentation)	2016
10 Yale Research Colloquium, Yale University, New Haven, CT, USA (Oral Presentation)	2016
9 Tropical Resources Institute Symposium, Yale University, New Haven, CT, USA (Oral Presentation)	2016
8 8 <sup>th</sup> International Conference on Mycorrhiza, Northern Arizona University, Flagstaff, AZ, USA (Poster Presentation)	2015
7 Costa Rica Internship Symposium, Lehigh University, Bethlehem, PA, USA (Poster Presentation)	2014
6 Environmental Initiative Symposium, Lehigh University, Bethlehem, PA, USA (Poster Presentation)	2013
5 Undergraduate Research Symposium, Lehigh University, Bethlehem, PA, USA (Poster Presentation)	2012
4 Earth and Environmental Science Symposium, Lehigh University, Bethlehem, PA, USA (Poster Presentation)	2012
3 Green Action Club, Lehigh University, Bethlehem, PA, USA (Oral Presentation)	2012
2 Lehigh University Dining Services, Lehigh University, Bethlehem, PA, USA (Oral Presentation)	2012

<b>1 Undergraduate Research Symposium, Lehigh University, Bethlehem, PA, USA</b> (Poster Presentation)	2011
<b>Teaching Experience</b>	
<b>Advanced Community Ecology, Lehigh University, PA, USA</b> Guest lecture, graduate course	2025
<b>Restoration and Conservation Course, ETH Zürich, Zürich, Switzerland</b> Co-created and served as a guest lecturer for class session; undergraduate course	2021-24
<b>Introduction to Environmental DNA, ETH Zürich, Zürich, Switzerland</b> Supported creation of field to lab to analysis course; Master's course	2023
<b>Microbiomes: Data to Insight, University of Kansas, Lawrence, KS, USA</b> Co-created a Microbial Metagenomics Course with department faculty; taught six classes; graduate course; DOI: 10.17605/OSF.IO/UWG7X	2019-20
<b>Data Carpentry Genomics Workshop, University of Kansas, Lawrence, KS, USA</b> Assisted students on an individual basis throughout the workshop	2020
<b>Principles of Molecular and Cellular Biology, University of Kansas, Lawrence, KS, USA</b> Taught three lab sections; helped facilitate group work in lectures	2016
<b>Trees: Environmental Biology, Yale University, New Haven, CT, USA</b> Led help sessions, office hours, and field trips associated with the course	2015
<b>Mentorship</b>	
<b>Postdoctoral Advising</b> ETH Zürich, Zürich, Switzerland [Sara Cazzaniga]	2024-
<b>PhD Student Advising</b> ETH Zürich, Zürich, Switzerland [Matilde Bragadini] Marquette University, Milwaukee, Wisconsin [Cole Doolittle]	2024- 2022-
<b>Master's Student Advising</b> ETH Zürich, Zürich, Switzerland [Luisa Zumsteg, semester project] ETH Zürich, Zürich, Switzerland [Lia Peter, semester project] ETH Zürich, Zürich, Switzerland [Maike Friedel, thesis] ETH Zürich, Zürich, Switzerland [Alice Nieves, semester project, thesis] ETH Zürich, Zürich, Switzerland [Alexis Aellen, semester project] ETH Zürich, Zürich, Switzerland [Linda Müller, thesis, term paper project] ETH Zürich, Zürich, Switzerland [Lina Bitterlin, term paper project] ETH Zürich, Zürich, Switzerland [Janika Angst, thesis] Agriculture and Agri-Food Canada, Saskatchewan, Canada [Jenna Lane] ETH Zürich, Zürich, Switzerland [Jon Went, term paper project]	2024- 2024- 2024 2023- 2023 2023- 2022-23 2021-22 2021-22 2021-22
<b>Undergraduate Student Advising</b> ETH Zürich, Zürich, Switzerland [Manuel Bigler, thesis] University of Kansas, USA [Jerod Thomas] ETH Zürich, Zürich, Switzerland [Linda Müller, thesis]	2024- 2023 2022

ETH Zürich, Zürich, Switzerland [Adrian Jonsson]	2022
ETH Zürich, Zürich, Switzerland [Mauro Vareni]	2022
Smithsonian Tropical Research Institute, Panama [Omayra Meléndez]	2022
University of Kansas, Lawrence, KS, USA [Joshua Schemanski]	2017-20
Universidad de Las Fuerzas Armadas, Sangolquí, Ecuador [Jose Luis Hernandez, thesis]	2017-19
Universidad de Las Fuerzas Armadas, Sangolquí, Ecuador [Maria-Jose Llamuca, thesis]	2017-19
<b>Molecular Lab Mentorship for undergraduate assistants and laboratory technicians</b>	
University of Kansas, Lawrence, KS, USA	2017-21
<b>WiSTEMM (Women in Science, Technology, Engineering, Mathematics &amp; Medicine) Mentor</b>	2018-19
University of Kansas, Lawrence, KS, USA	
Helped create and lead workshops (Scientific Communication, Graduate School Panel)	
<b>Peer Mentor, School of Forestry and Environmental Studies</b>	2015-16
Yale University, New Haven, CT, USA [Four incoming Masters students]	
<b>Additional experience</b>	
<b>Smithsonian Tropical Research Institute Field Course</b> , Panama	2020
Tropical Biology Field Course and Environmental Policy	
<b>Organization for Tropical Studies Field Course</b> , Costa Rica	2016-17
Field Ecology: Skills for Science and Beyond; field intensive course in multiple locations across Costa Rica emphasizing field work, data analysis, and science communication	
<b>Mycorrhizal Research Assistant and Collaborator</b> , Yale University, New Haven, CT, USA	2015-16
Collaborated on and helped design two related studies; developed laboratory protocol for doctoral student	
<i>NSF project</i> : Collaborative Research: Genetic diversity, resistance genes, and negative density dependence in tropical tree seedling dynamics	
<b>Soils Lab Research Assistant</b> , Yale University, New Haven, CT, USA	2014-15
Assisted in the main soils laboratory; contributed to doctoral and postdoctoral research projects	
<b>Mycorrhizal Research</b> , Acción Ecológica (NGO), Quito, Ecuador	2014
Assessed arbuscular mycorrhizal fungal colonization in cacao plants in petroleum affected Amazonian forest plantations of Pacayacu, Ecuador; in conjunction with the Pontificia Universidad Católica del Ecuador	
<b>Reforestation Research</b> , Tropical Science Center, Costa Rica	2013
Led and coordinated research on the pacific coast of Costa Rica to assess tree growth from local nurseries within various species in sites with diverse land uses	
<b>Chiroptera Echolocation Research</b> , Pontificia Universidad Católica Del Ecuador, Ecuador	2013
Assisted in field and lab research on bat echolocation calls in multiple locations in Ecuador to develop first national echolocation call library	
<b>Independent Compost Research</b> , Garbage to Gold Initiative, Bethlehem, PA, USA	2010-12



Conducted research on composting methods, program organization in higher education, and on technical processes; led campus-wide compost pilot program	
<b>Sustainability Intern</b> , Lehigh Dining Services, Lehigh University, Bethlehem, PA, USA	2011
Partnered with Sodexo to communicate with the student body on issues related to sustainability in food; surveying, programming, marketing, and implementation of changes	
<b>Outreach and Service</b>	
<b>12<sup>th</sup> International Conference on Mycorrhiza</b> , Manchester, United Kingdom	2024
Co-chaired workshop: The ‘other’ endomycorrhizas: ecology, diversity, molecular biology, and methods for study	
<b>Scientifica</b> , Zürich, Switzerland	2023
Invited contribution to largest public outreach event in Switzerland	
<b>NACHTAKTIV</b> , Zürich, Switzerland	2023
Invited contribution to outreach event on mycorrhizal fungi and island biogeography	
<b>Planning Committee for NSF Workshop</b>	2021-22
Co-organizer for the working group “Robust methods for estimating conspecific negative density dependence” (NSF # DEB-2024903)	
<b>Committee Member for laboratory group wide diversity and inclusion sessions</b>	2022-
Co-organizer for monthly diversity and inclusion sessions in the group	
<b>ETH Student Term Paper Course Conference Chair</b>	2022, 23
Chaired a session for Master’s student term paper course conference	
<b>Science Ambassador Scholarship Judge</b> , Cards Against Humanity	2021
Reviewed and selected applicants for scholarship	
<b>Collaborator with the Society for the Protection of Underground Networks (SPUN)</b>	2021-
Assisted in first summit and resulting publication	
<b>Molecular Research Assistant Hiring Committee</b> , Lawrence, KS, USA	2020
Reviewed, interviewed and selected applicants for position	
<b>Scholarly Publications &amp; Open Access Task Force</b> , Lawrence, KS, USA	2019-20
A nominated appointment to serve on a task force to submit recommendations to the provost and chancellor	
<b>Middle School Outreach Program</b> , Lawrence, KS, USA	2018-19
Volunteered to teach lessons in English and Spanish on ecology topics	
<b>Class Presentation and Discussion</b> , Free State High School, Lawrence, KS, USA	2017
Led four class sessions for AP Environmental Science class related to research in the Galapagos	
<b>Kansas DNADay Ambassador</b> , University of Kansas, Lawrence, KS, USA	2017
Led two Kansas DNADay classes at Eudora High School	
<b>Undergraduate Research Symposium Judge</b> , University of Kansas, Lawrence, KS, USA	2017
Served as a judge for university undergraduate research symposium	
<b>Ecological Society of America Annual Meeting Symposium Moderator</b> , Fort Lauderdale, FL, USA	2016

Served as panel moderator during symposium ‘Invaders in Food Webs: Using Trophic Structure to Predict Invasibility and Invader Impact’	
<b>Laboratory Outreach for Free State High School</b> , University of Kansas, Lawrence, KS, USA	2016
Led laboratory tour and hands on activity to Free State High School students Explorations in Science Club; in collaboration with other laboratory members	
<b>Mycorrhizal Laboratory Method Workshop: Clearing and Staining</b> , University of Kansas, Lawrence, KS, USA	2016
Planned and led a workshop for a visiting lab group	
<b>Study Abroad Panelist: Independent Travel and Safety</b> , University of Kansas, Lawrence, KS, USA	2016
Served on Panel to give advice and guidance to outgoing study abroad students	
<b>Science of the Macabre</b> , University of Kansas, Lawrence, KS, USA	2016-17
Co-led fungi-related educational activities for the public	
<b>Green Careers, Women Leaders Conference, New Haven, CT, USA</b>	2016
Volunteered to talk with high school women about a career in STEM; participated in a Field Research Workshop	
<b>Coordinator, International Society of Tropical Foresters</b> , Yale University, New Haven, CT, USA	2015
Led and coordinated on campus events and organization meetings for the Yale chapter of International Society of Tropical Foresters: collaborated with several organizations on campus	
<b>International Society of Tropical Foresters’ Conference</b> , Yale University, New Haven, CT, USA	2015
Reviewed abstracts in a team; helped during the conference set up and welcoming guests	
<b>Compost Pilot Program: Founder of “Garbage to Gold”</b> , Lehigh University, Bethlehem, PA, USA	2012-14
Managed a semester-long composting pilot program with 3 other students	
<b>Abroad Ambassadors</b> , Lehigh University, Bethlehem PA, USA	2012-13
Promoted and informed student groups about study abroad options and benefits	
<b>Delaware Valley Study Abroad Re-Entry Conference</b> , University of Pennsylvania, Philadelphia, PA. USA	2013
Attended as a Study Abroad Ambassador for Lehigh University	
<b>Language Tutoring</b> , Center for Academic Success, Lehigh University, Bethlehem, PA, USA	2010-13
One on one tutoring in Spanish and French	
<b>Sustainable LEHIGH preclusion Leader</b> , Lehigh University, Bethlehem PA, USA	2012
Led and helped plan the first pre-orientation program at Lehigh focused on sustainability	
<b>AASHE Conference</b> , Pittsburgh, PA, USA; Los Angeles, CA, USA	2011-12
Attended and ran a discussion group at conference	
<b>Green Chair</b> , Kappa Alpha Theta Sorority, Lehigh University, Bethlehem, PA, USA	2012

Led efforts to make the living space more sustainable, including addition of a composter, waste signs, light bulb replacement, and education modules	
<b>Lehigh Environmental Advisory Group</b> , Lehigh University, Bethlehem, PA, USA	2010-13
Contributed to a group of faculty, staff, and students that monitors and advises the university president on sustainable progress and actions of the institution	
<b>Lehigh Sustainability Plan drafting: waste group</b> , Lehigh University, Bethlehem PA, USA	2011
Co-wrote Lehigh University's first Sustainability Plan through waste management insight	
<b>Tennessee Spring Service Trip</b> , TN, USA	2011
Participated in a Spring Break service trip in Tennessee to help maintain trails in Cherokee community	
<b>Green Action Leadership</b> , Lehigh University, Bethlehem, PA, USA	2011
Planned group direction and program planning; dining student liaison	
<b>Poll-Worker</b> , New Jersey, USA	2010-13
Directed and approved voters during elections	

## **Science Communication**

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Cary Institute of Ecosystem Studies Article ( <a href="#">link</a> )	2024
South American Mycorrhizal Research Network Interview ( <a href="#">link</a> )	2024
Smithsonian Tropical Research Institute Guest Web Features ( <a href="#">link1</a> , <a href="#">link2</a> , <a href="#">link3</a> )	2022
Nature Community Posts, Regular Contributor ( <a href="#">link</a> )	2019-
Crowther lab blog post contribution ( <a href="#">link</a> )	2022
Writing for Impact Course, National Geographic	2019
South American Mycorrhizal Research Network Interview ( <a href="#">link</a> )	2019
Yale University Press Release ( <a href="#">link</a> )	2019
Deutschlandfunk (NPR equivalent in Germany) Interview ( <a href="#">link</a> )	2019
University of Göttingen Press Release ( <a href="#">link</a> )	2019
Featured on Ecology Blog ( <a href="#">link</a> )	2017
Personal Blog Publications (Science communication and travel; <a href="#">link</a> )	2014-18
University Daily Kansan (PhD Thesis; <a href="#">link</a> )	2017
University of Kansas Public Affairs (PhD Thesis; <a href="#">link</a> )	2017
Lehigh University Latin American Studies Program Reflection ( <a href="#">link</a> )	2014
AASHE Student Diaries ( <a href="#">link1</a> , <a href="#">link2</a> )	2011-12

## **Professional Membership**

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<b>International Mycorrhizal Society</b>	Lifetime
<b>British Ecological Society</b>	2021-23
<b>Ecological Society of America</b>	2016-23
<b>International Society of Tropical Foresters</b> , Yale University, New Haven, CT, USA	2014-16
Co-planned 2016 and 2015 conferences and aided in proposal review; served as coordinator for Yale chapter	

<b>Society of American Foresters</b> , Yale University, New Haven, CT, USA	2014-16
Participated in regular meetings and fundraising	
<b>Society of Environmental Scientists</b> , Lehigh University, Bethlehem PA, USA	2011
Co-founded and was secretary of group	
<b>Engineers Without Borders</b> , Lehigh University, Bethlehem PA, USA	2011
Participated in social committee to address cultural and language concerns for those travelling	

## **Relevant Skills**

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Setting up a microbial culturing lab, R Statistical Program, Unix/Linux coding, Qiime2 (bioinformatical program), Geneious (bioinformatical program), Geographical Information Systems (GIS), WinRHIZO (root analysis software), Adobe Illustrator, Adobe Photoshop, Microsoft Office Suite (Word, Excel, PowerPoint)