

## Camille S. Delavaux

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### Education

- University of Kansas, Ecology and Evolutionary Biology, Doctoral Student**, Lawrence, KS 2021  
**Thesis:** Plant Invasion in the Galapagos Mediated by Arbuscular Mycorrhizal Fungi (Ecuador)
- Yale University, School of Forestry and Environmental Studies, MS Environmental Science**, New Haven, CT 2016  
**Thesis:** Nutrient Enrichment Effects on Mycorrhizal Fungi in an Andean tropical montane forest (Zamora, Ecuador)
- Lehigh University, Bachelors of Sciences and Arts**, Bethlehem, PA 2014  
**Majors:** B.S. Earth and Environmental Science; Honors B.A. Spanish Language and Literature  
**Minors:** Latin American Studies; Environmental Studies  
**Study Abroad:** Ecuador, India, Spain, Costa Rica  
**Academic Honors:** Multiple Dean's List Recipient, Contribution to Student Life Award

### Relevant Skills

- Computer:** R Statistical Program, Geographical Information Systems (GIS), WinRHIZO (root analysis software), Stella (models Earth's systems), Microsoft Office Suite (Word, Excel, PowerPoint), SonoBat (bat call analysis), Avisoft Saslab Pro (sound analysis software)
- Language:** Fluent French, Fluent Spanish

### Related Experience

- Mycorrhizal Research Assistant and Collaborator**, Yale University, New Haven, CT, USA 2015-2016  
Collaborated on and helped design two related studies (see publications and presentations section); developed laboratory protocol for doctoral candidate research  
*NSF project:* Collaborative Research: Genetic diversity, resistance genes, and negative density dependence in tropical tree seedling dynamics
- Teaching Fellow, "Trees: Environmental Biology"**, Yale University, New Haven, CT, USA 2015  
Led help sessions, office hours, and field trips associated with the course
- Soils Lab Research Assistant**, Yale University, New Haven, CT, USA 2014-2015  
Assisted in the main soils laboratory in the School of Forestry and Environmental Studies at Yale University; contributed to current doctoral and postdoctoral research projects
- Mycorrhizal Research**, Acción Ecológica (NGO), Ecuador 2014  
Conducted research assessing arbuscular mycorrhizal fungal colonization in cacao plants in petroleum affected amazonian forest plantations of Pacayacu, Ecuador; research done in conjunction with the Pontificia Universidad Católica del Ecuador
- Reforestation Research**, 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
- Chiroptera Echolocation Research**, Pontificia Universidad Católica Del Ecuador, Ecuador 2013  
Assisted in field and lab research on bat echolocation calls in multiple locations in Ecuador
- Lehigh Environmental Advisory Group**, Lehigh University, Bethlehem, PA, USA 2010-2013  
Contributed to a group of faculty, staff, and students that monitors and advises the university president on sustainable progress and actions of the institution
- Independent Compost Research**, Garbage to Gold Initiative, Bethlehem, PA, USA 2010-2012  
Conducted research about composting methods, program organization in higher education, and on technical processes; led campus wide compost pilot program
- Sustainability Intern**, Lehigh Dining Services, Lehigh University, Bethlehem, PA 2011  
Partnered with Sodexo to represent and communicate with the student body on issues related to sustainability in food; surveying, programming, marketing, and implementation of changes

### Leadership

- Coordinator, International Society of Tropical Foresters**, Yale University, New Haven, CT, USA 2015  
Lead and coordinated all on campus events and organization meetings for the Yale chapter of International Society of Tropical Foresters: collaborated with several organizations on campus
- Peer Mentor, School of Forestry and Environmental Studies**, Yale University, New Haven, CT, USA 2015-2016

Mentored four incoming Master's students; helped orient to the school and New Haven.	
<b>Compost Pilot Program: Founder of "Garbage to Gold"</b> , Lehigh University, Bethlehem, PA, USA	2012-2014
Managed a semester-long composting pilot program with 3 other students; involving all parts of composting beginning in the dining hall to turning waste to applying it as a soil amendment	
<b>Language Tutoring</b> , Center for Academic Success, Lehigh University, Bethlehem, PA, USA	2010-2013
One on one tutoring in Spanish and French	
<b>Green Chair</b> , Kappa Alpha Theta Sorority, Lehigh University, Bethlehem, PA, USA	2012
Lead efforts to make the living space more sustainable, including addition of a composter, waste signs, light bulb replacement, and education modules	
<b>Green Action Leadership</b> , Lehigh University, Bethlehem, PA, USA	2011
Planned group direction and program planning; dining student liaison	

## Grants Received

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Yale Master's Student Travel Funds (ESA Conference)- \$900	2016
ESA Soil Ecology Section Student Travel Award -\$250	2016
Anne Armstrong-Colaccino Scholarship (2 years) -\$30,000	2014-2016
Fulbright U.S. Student Program (Research) Alternate	2016
Yale F&ES Tropical Resources Institute Endowment Fellowship -\$6,000	2015
Yale Master's Student Travel Funds (International Conference on Mycorrhiza) -\$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
National Geographic Young Explorer's Award, Pre-application Accepted (Master's Thesis Research)	2014
Lehigh Student Opportunity Fund (AASHE Conference (2), Service trip, Climate Change Conference) ~\$2,000	2011-2014
Lehigh Modern Languages and Literature Study Abroad Grant (Ecuador study abroad) ~\$1,000	2013
Lehigh University of Minnesota Study Abroad Grant (Ecuador Study abroad) ~\$4,000	2013
Lehigh Environmental Initiative Grant (Costa Rica summer internship) –entire trip cost	2013
Lehigh Green Fund (Composting Pilot Project) -\$2,000	2012
Lehigh College of Arts and Sciences Research Grant (Composting Pilot Project) -\$2,000	2011
Lehigh Earth and Environmental Science Undergraduate Research Grant (Composting Research) -\$1,000	2010

## Presentations

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Ecological Society of America Annual Meeting, Fort Lauderdale, FL, USA (Master's Thesis)	2016
Ecological Society of America Annual Meeting, Fort Lauderdale, FL, USA (Seedling Survival study)	2016
Yale Research Colloquium (Master's Thesis)	2016
Tropical Resources Institute Symposium (Master's Thesis)	2016
8 <sup>th</sup> International Conference on Mycorrhiza, Northern Arizona University (Master's Thesis)	2015
Costa Rica Internship Symposium, Lehigh University (Costa Rica Internship)	2014
Environmental Initiative Symposium, Lehigh University (Composting Program)	2013
Undergraduate Research Symposium, Lehigh University (Composting Research)	2011, 2012
Earth and Environmental Science Symposium, Lehigh University (Composting Research)	2012
Green Action Club, Lehigh University (Benefits of Composting)	2012
Lehigh University Dining Services, Lehigh University (Composting Research and Project pitch)	2012

## Publications

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### In revision:

<b>Nutrient Enrichment Effects on Mycorrhizal Fungi and Plant Diversity in Southern Ecuador</b>	2016
Delavaux, C.S., Camenzind, T., Homeier, J., Jiménez-Paz, R., Queenborough, S.A., Ashton, M.S.	
<b>Beyond nutrients: A meta-analysis of the diverse effects of arbuscular mycorrhizal fungi on plants and soils</b>	2016
Delavaux, C.S., Smith, L.M., Keubbing, S.E.	

### In preparation:

<b>Soil microbial community impacts on tropical tree seedling growth and colonization by mutualistic fungi promote seedling diversity within a tropical tree population</b>	2016
Eck, J.L., Delavaux, C.S., Mangan, S.A., Comita, L.S.	
<b>Plant-Soil Feedbacks in the Mycorrhizal Symbiosis on Barro Colorado Island, Panama: <i>Virola Surinamensis</i></b>	2016

**Published:**

**Personal Blog Publications**

Link: <http://camilledelavauxblog.weebly.com> 2014-2015  
 Science communication, travel, and research blog

**Yale Tropical Research Institute Blog** 2015

Link: <http://environment.yale.edu/blog/2015/07/tri-field-notes-in-search-of-plant-fungi-relationships-in-ecuador/>

**Lehigh University Latin American Studies Program Reflection** 2014

Link: <https://las.cas2.lehigh.edu/content/camille-s-delavaux>  
 Reflected on importance of integrating language, culture, and history in my career

**AASHE Student Diaries (two entries)** 2011, 2012

Link 1: <http://www.aashe.org/blog/aashe-student-diary-series-story-campus-compost-lady>  
 Link 2: <http://www.aashe.org/blog/aashe-student-diary-series-compost-lady-compost-campus>

**Professional Membership**

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**International Mycorrhizal Society** 2015-2018

Attended and presented at conferences; participated in society structure decisions

**International Society of Tropical Foresters, Yale University, New Haven, CT, USA** 2014-2016

Co-planned 2016 and 2015 conferences and aided in proposal review; served as coordinator for Yale chapter.

**Society of American Foresters, Yale University, New Haven, CT, USA** 2014-2016

Participated in regular meetings and fundraising

**Society of Environmental Scientists, Lehigh University, Bethlehem PA, USA** 2011

Co-founded and was secretary of group.

**Engineers Without Borders, Lehigh University, Bethlehem PA, USA** 2011

Participated in social committee to address cultural and language concerns for those travelling

**Service & Conferences**

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**Ecological Society of America Annual Meeting** 2016

Presented poster on Master's Research, was a moderator for a symposium ('Invaders in Food Webs') and was co-author on secondary talk.

**Green Careers, Women Leaders Conference, New Haven, CT, USA** 2016

Volunteered to talk with high school girls about a career in STEM; participated in a Field Research Workshop

**8<sup>th</sup> International Conference on Mycorrhiza, Northern Arizona University, Flagstaff, AZ, USA** 2015

Presented Master's Research

**10<sup>th</sup> Annual Plant Biology Initiative Symposium, Harvard University, Boston, MA, USA** 2015

Attended conference

**International Society of Tropical Foresters' Conference, Yale University, New Haven, CT, USA** 2015

Reviewed abstracts in a team; helped during the conference set up and welcoming guests

**Yale Food Systems Symposium, Yale University, New Haven, CT, USA** 2014

Attended conference

**Sustainable LEHIGH preclusion Leader, Lehigh University, Bethlehem PA, USA** 2012

Led and helped plan the first pre-orientation program at Lehigh focused on sustainability

**Abroad Ambassadors, Lehigh University, Bethlehem PA, USA** 2012-2013

Promoted and informed student groups about study abroad options and benefits

**Lehigh Sustainability Plan drafting: waste group, Lehigh University, Bethlehem PA, USA** 2011

Co-wrote Lehigh University's first Sustainability Plan through waste management insight.

**Poll-Worker, New Jersey, USA** 2010-2013

Directed and approved voters during elections

**Tennessee Spring Service Trip, TN, USA** 2011

Participated in a Spring Break service trip in Tennessee to help maintain trails in Cherokee community

**Delaware Valley Study Abroad Re-Entry Conference, University of Pennsylvania, Philadelphia, PA, USA** 2013

Attended as a Study Abroad Ambassador for Lehigh University

**Climate Change Conference, The New School, NY, USA** 2014

Attended conference

**AASHE Conference, Pittsburgh, PA, USA; Los Angeles, CA, USA** 2011, 2012

Attended and ran a discussion group at conference

**Fair Trade Conference, Philadelphia, PA, USA** 2011

Attended and incorporated ideas into Lehigh Dining Services' practices

**Food and Justice Summit**, Boston, MA, USA  
Attended conference

2010