

Andrew J. Muehleisen, Ph.D.

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Education

Ph.D., Forestry & Environmental Studies

Yale University, New Haven, CT

Advisor: Dr. Liza S. Comita

Received May 2020

B.S. in Evolution and Ecology

Minor in Engineering Sciences

Ohio State University, Columbus, OH

Magna cum Laude with Honors Distinction

Honors Research Distinction in Evolution, Ecology and Organismal Biology

Received May 2013

Teaching Experience

Instructor of record:

Instructor of Record, ENVS 410/510 Data Management and Visualization, Univ. of Oregon

Fall 2021

- Co-instructed with Dr. Lauren Hallett

Instructor of Record, EVST 251 Pests, Parasites, and Pathogens, Yale University

Spring 2019

- Created and instructed through Yale's Associates in Teaching Program.

Invited guest lectures:

- *Coexistence Theory and the Storage Effect*, EEB 305/705 Plant Ecology, Yale University

- *Tropical Forests and Climate Change*, FES 752 Ecology & Conservation of Tropical Forests, Yale University

Pedagogical development:

Data Science Initiative Postdoctoral Associate, University of Oregon

Summer 2020-Present

- Content strategy for new undergraduate and graduate degree programs in data science

Curriculum Development Consultant, FES 720 Introduction to R, Yale University

Spring-Summer 2018

- Hired through Rosenkranz Grant for Pedagogical Advancement to redevelop FES 720 and create self-guided R tutorials using the SWIRL package

Teaching assistantship:

Teaching Fellow, FES 611a Introduction to Environmental Data Science, Yale University

Fall 2019

Teaching Fellow, FES 720 Introduction to R, Yale University

Fall 2019

Teaching Fellow, FES 720 Introduction to R, Yale University

Fall 2018

Teaching Fellow, FES 191 Trees: Environmental Biology & Global Significance, Yale University

Spring 2018

Teaching Fellow, FES 720 Introduction to R, Yale University

Fall 2017

Teaching Fellow, FES 717/EEB 617 Tropical Field Ecology, Yale University

Spring 2017

Teaching Fellow, FES 720 Introduction to R, Yale University

Fall 2016

Teaching Fellow, FES 752 Ecology & Conservation of Tropical Forests, Yale University

Fall 2015

Teaching Fellow, FES 720 Introduction to R, Yale University

Fall 2015

Undergraduate mentorship:

Undergraduate Thesis Mentor, Yale University

Summer 2015

Peer Research Contact, Ohio State University

2011-2013

Professional Experience

Postdoctoral Research Associate, University of Oregon

Summer 2020-Present

- Joint appointment with the Institute of Ecology and Evolution and the Data Science Initiative

Data Consultant, Yale Environmental Leadership & Training Initiative

Spring 2018

Field Technician, Midwest Carbon Sequestration, Purdue University
Lab Assistant, Aquatic Biogeochemistry, Ohio State University

Summer 2013
Fall 2011

Publications

Muehleisen, A., Schwartz, N. B., Stump, S. M., Staver, A. C. (2021). Deciduous-evergreen coexistence in tropical forests. *in prep.*

Muehleisen, A. J., Engelbrecht, B. M., Jones, F. A., Manzané-Pinzón, E., & Comita, L. S. (2021). Do experimental drought stress and species' drought sensitivity influence herbivory in tropical tree seedlings? *In review, Biotropica*

Muehleisen, A. J., Engelbrecht, B. M., Jones, F. A., Manzané-Pinzón, E., & Comita, L. S. (2020). Local adaptation to herbivory within tropical tree species along a rainfall gradient. *Ecology*, 101(11), e03151.

Muehleisen, A., Queenborough, S. A., Alvia, P., Valencia, R., & Fiala, B. (2016). Incidence of Extrafloral Nectaries and their relationship with growth and survival of lowland tropical rain forest trees. *Biotropica*, 48(3), 321-331.

Grants

Associates in Teaching Program , Yale University	2019
Tropical Resources Institute Endowment Fellowship , Yale University	2018
Conference Travel Fellowship , Yale University	2018
Doctoral Pilot Grant , Yale Institute for Biospheric Sciences	2015
Summer Research Fellowship , Ohio State Undergraduate Research Office	2012

Conference Presentations

Sussex Plant Biology Symposium , research talk	2019
Ecological Society of America Annual Meeting , research talk	2018
Forestry and Environmental Studies Research Day , research talk	2018
Ecological Society of America Annual Meeting , poster presentation	2016
Forestry and Environmental Studies Research Day , research talk	2015
Ohio State Undergraduate Research Conference , poster presentation	2012

Technical Proficiencies

Data Analysis: R, Python, Matlab
Remote Sensing: Google Earth Engine
Computer Science: version control with Git, shell programming
Modeling: Mathematica, coexistence theory, evolutionary stable strategies, population matrix- and integral-projection
Lab Techniques: plant hydraulics, plant foliar chemistry (LCMS)

Other Relevant Experience

Engineering Capstone Design Project , Ohio State University - <i>Solar-Powered Anaerobic Bio-Digester</i>	Winter-Summer 2012
Civil Engineering Intern , City of Sylvania, Ohio	2009, 2010