Janey R. Lienau

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PROFESSIONAL PREPARATION

Ph.D Student

Yale School of the Environment

Master's of Environmental Science

Yale School of the Environment

- Focus: soil ecology
- Thesis Title: The effects of ground beetles on nitrogen cycling in eastern temperate forests
- Advisors: Dr. Oswald J. Schmitz, Dr. Marlyse C. Duguid •
- Relevant Coursework: Regression Modeling for Environmental Data, Forest Dynamics, Natural Science Research Methods, Data Exploration and Analysis, Soil Science honors student

B.S. Environmental Science, Biology Minor	Aug 2018—Dec 2020
Wheaton College	Wheaton, IL
Student, Sustainability Program	Aug 2016—July 2018
<i>Arizona State University</i>	Phoenix, AZ

AWARDS & GRANTS (\$78,800 total)

Dean's Scholarship	\$2,300
NSF Graduate Research Fellowships Program 2023	Honorable Mention
 Environmental Professionals Organization of CT (EPOC) 	\$2,500
Rocky Mountain Biological Laboratory Travel Grant	\$2,800
Yale Master's Student Travel Award	\$500
Yale Summer Fellowship	\$1,500
Yale Institute for Biospheric Studies	\$3,000
• David T. Schiff Fund for Wildlife, Habitat and Biodiversity Research	\$6,000
• Yale Forest Funds	\$5,000
Big Y Academic Merit Scholarship	\$2,000
NSF Graduate Research Fellowships Program 2021	Honorable Mention
• Yale School of the Environment Merit Scholarship	\$20,000
REU Morton Arboretum Program Stipend	\$6,000
Wheaton College Black Hills Science Station	\$3,500
Wheaton College Presidential Leadership Award	\$20,000
ASU Walton Foundation Sustainability Scholarship	\$6,000

PUBLICATIONS

Functional traits of predators and decomposer prey determine context dependency in trophic control over ecosystems JR Lienau, OJ Schmitz https://doi.org/10.1111/1365-2656.14091

Evergreen gymnosperms tree abundance drives ground beetle density and community composition in US eastern temperate forests JR Lienau, RW Buchkowski, MG Midgley https://doi.org/10.1016/j.pedobi.2024.150930

PRESENTATIONS

Presentation: EGU Oral Session, Ground beetle trophic interactions alter available nitrogen in forest soils	Aug 2023
Presentation: ESA Poster Session, Ground beetle trophic interactions alter available nitrogen in forest soils	Aug 2023
Presentation: YSE Research Day, Ground beetle trophic interactions alter available nitrogen in forest soils	April 2023
Presentation: ESA Organized Oral Session, Tree traits predict the diversity of soil organisms across 100 year monocul	tures Aug 2022
Presentation: Environmental Science Careers for NSLC youth at Yale	July 2022
Presentation: Environmental Science Cafe for New Haven high schools	Apr 2022
Presentation: CT Entomological Society	Mar 2022
Presentation: ESA Ecology Society of America Poster Presentation	Aug 2021
Presentation: Wheaton College Talk Networking for Science Careers	Aug 2021
Presentation: Morton Arboretum Science Symposium Effects of forest type on ground beetle density and diversity	Aug 2020
Panelist: Environmental Science Careers at Wheaton College	Dec 2020

Fall 2023 New Haven, CT

2023 New Haven, CT

TEACHING

Teaching Fellow

Yale College

- Spring 2024 ENV 709 Soil Science
- Fall 2023 Fall 2021 EVST 234L Field Environment and Sustainability.
- Spring 2023 Yale Analytical and Stable Isotope Center, TF
- Spring 2023 EE&B 125L History of Life
- Fall 2022 EVST 234L Field Environment and Sustainability
- Spring 2022 E&EB 223L Diversity of Life, instructed 66 students in two lab sections
- Fall 2021 EVST 234L Field Environment and Sustainability. Led discussion groups and field exercises, drove the shuttle, and provided feedback on lab reports

National Leadership Conference

Yale Myers Forest

• Lectured on key ecological concepts in forest ecology and led field activities for 200+ highschool students

MENTORING EXPERIENCE

Undergraduate

- E. Horgen (Yale University)
- C. Twyman (Yale University)
- M. Torres (Yale University)
- L. Flores* (Elmhurst University)

RESEARCH EXPERIENCE

Master's Thesis

Yale School of the Environment

• Developed a research proposal and fundraised \$17,000 in grants to conduct research on soil food webs in eastern temperate forests. Designed and conducted two experiments at Yale Myers Forest to answer my research questions: *How do ground beetles contribute to nitrogen cycling in eastern temperate forests?*

Research Education Extension Fellow

Morton Arboretum

- Summer of 2021 ran an experiment at the Morton Arboretum in 18 century old mono-stand plots to assess soil macroinvertebrate communities by tree type and soil properties. Presented research at Ecology Society of America and prepared a manuscript for publication *Tree traits predict the abundance and diversity of soil organisms across century-old monocultures*
- Generated hypotheses & leveraged datasets in R software from National Ecological Observatory Network's data on ground beetles to create a new model for beetle community composition by forest type & prepared a manuscript for publication *Evergreen abundance drives ground beetle diversity and density in eastern temperate forests*

NSF Research Education for Undergraduates (REU)

Morton Arboretum

June 2020—Aug 2020 Lisle, IL & Remote

May 2019—July 2019

Black Hills, SD

NSF Funded research with the Soil Ecology Lab at the Morton Arboretum in Lisle, Illinois. Adapted to a virtual project that
explored differences in forest types and inorganic nitrogen effects on ground beetle density and diversity. Utilized the
National Ecological Observatory Network's ground beetle data in R. Designed and ran an analogous experiment on my
family's small farm in the PNW. Engaged in the scientific community. Developed an R-based project, research questions,
experimental design, ground beetle collection, ground beetle processing, and presented research Mentored by Dr. Meghan
Midgley and Dr. Robert Buchkowski

Student Researcher

Wheaton College Science Station

• Red Wing Blackbird study with Dr. Kenneth Peterson from Bethel College collected, analyzed, and interpreted data on the behavior of Red Wing Blackbirds using Excel

PROFESSIONAL DEVELOPMENT

Specialized Research Assistant

Schmitz Lab

• Worked in a team of four, conducted literature reviews for models, provided expertise for soil analysis including soil CN Isotope analyzer, soil water holding capacity, soil pH, and bulk density

Sept 2021-Present

Aug 2019—May 2020 Eastford, CT

Aug 2021—Present

Jan 2021—Aug 2022

Lisle, IL

*peer mentor

Yale Center for Business and the Environment

• Develop a soil policy recommendation for the state of Connecticut, demonstrated leadership by organizing a team, meeting with stakeholders, and creating a literature review

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INTERESTS & SYSTEMS

- Statistical Analysis: Advanced RStudio, JMP, ArcGIS, Aloha Hazard Modeling & Data Visualization
- Microsoft Office 365: Excel, Word, & PowerPoint
- Environmental & Biology Technical Skills
 - Air & Water Quality Instruments
 - Ecology Research & Grant Writing
- Permaculture Design & Plant and Insect ID