

Bailey Paige McLaughlin

Curriculum Vitae

PhD Student, McGill Lab
Ecology and Environmental Sciences Program
School of Biology and Ecology
Climate Change Institute
The University of Maine

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Education:

Doctoral Student – Ecology and Environmental Sciences (September 2019-Present)

The University of Maine; School of Biology and Ecology, Climate Change Institute; Orono, ME
Dissertation Advisor: Dr. Brian McGill

Bachelor of Science – Environmental Science, Conservation Science and Policy (September 2013-May 2017)

Brown University; Institute at Brown for Environment and Society; Providence, RI
Thesis Advisor: Dr. Dov Sax

Thesis Title: "Trees, Megafauna, and Range Sizes: Does Dispersal Limitation Matter?"

Research Interests:

I am an Ecologist and Biogeographer broadly interested in how biodiversity is impacted by global change. I integrate data sources and scales to understand whether and how species change their geographic distributions across space and through time to better understand species' vulnerability and resilience to ongoing change.

Publications:

Marshal A., **McLaughlin B.P.**, Zerr C., Yanguas-Fernández E., Hall J.E. 2020. Early indications of success in rehabilitating an underperforming teak (*Tectona grandis*) plantation in Panama through enrichment planting. *New Forests*.

Research Positions:

McGill Lab, Graduate Researcher (September 2019-Present)

The University of Maine School of Biology and Ecology and Climate Change Institute; Orono, ME

Investigate impacts of global change on tree species' range dynamics and distributions through macroecological assessments. Integrate datasets and methodologies across scales of time and space to understand how tree species respond to global change and what structures their geographic distributions.

Sax Lab, Research Assistant (October 2017-August 2019)

Brown University Dept. of Ecology and Evolutionary Bio. and Institute at Brown for Environment and Society; Providence, RI

Managed, organized, and collected large datasets for a collaborative project investigating plant range dynamics, niche concepts, and extinction risk in the United States. Secondary responsibilities included managing and instructing undergraduate students assisting with data collection efforts and collaborating with other lab members, including postdoctoral researchers, graduate students, and external collaborators.

Sax Lab, Undergraduate Researcher (September 2016-May 2017)

Brown University Dept. of Ecology and Evolutionary Bio. and Institute at Brown for Environment and Society; Providence, RI

Performed independent research as part of a two-semester senior thesis in the Environmental Science department in which I identified and categorized North American tree species into dispersal syndromes to investigate the effect of the

Pleistocene megafaunal extinction on the distribution and range size of trees thought to have been primarily dispersed by megafauna in North America. Work included extensive literature reviews, data collection and organization, mapping in ArcGIS, and data analysis. I presented this project in poster and lecture form to department and community members.

Hall Lab, Research Associate (June 2016-August 2016)

Smithsonian Tropical Research Institute: Center for Tropical Forest Science; Panama City, Panama

Conducted fieldwork and assisted in data processing as a research associate for the long-term, multi-faceted Agua Salud Project in the Panama Canal Watershed. Primary duties included collecting baseline vegetation measurements as part of a team for long-term monitoring, collecting growth and form measurements for tree species, and quantifying the light environment of tree species via hemispherical photography. Secondary responsibilities included assisting with another ongoing project in the Agua Salud site, creating new study plots and planting tree seedlings with a Master's student.

Teaching Positions:

Graduate Teaching Assistant (September 2020-Present)

School of Biology and Ecology; The University of Maine; Orono, ME

BIO100: Basic Biology

Graduate Teaching Assistant (November 2019)

Ecology and Environmental Sciences; The University of Maine; Orono, ME

EES217: Acadia Field Lessons

Professional Experience:

Graduate Student Faculty Liaison (April 2020-Present)

The University of Maine's School of Biology and Ecology Graduate Organization; Orono, ME

Attend departmental meetings, interface with graduate students, advocate for graduate student interests, and serve as a graduate student representative to the faculty.

Environmental Studies and Science Departmental Undergraduate Group Leader (2014-2016)

Institute at Brown for Environment and Society; Providence, RI

Organized social and educational events for undergraduates, faculty, and staff in the Environmental Studies and Science Department and served as an undergraduate student representative for the department at campus events.

Front Desk Receptionist and Office Assistant Employee (2016-2017)

Brown University Office of College Admission; Providence, RI

Answered and directed phone calls, provided admission and university-related information, organized office materials.

Summer Intern (2015)

Peconic Baykeeper; Quogue, NY

Worked to advance this environmental non-profit's clean water mission on Long Island. Primary duties included creating informational materials, helping with fundraisers, writing reports, conducting literature reviews, engaging in field work, and conducting interviews. Secondary responsibilities included attending conferences, legislative hearings, and civic meetings as a representative of the organization.

Grants and Awards:

Best Research Poster Design - Environmental Studies and Science Senior Projects (May 2017)

Institute at Brown for Environment and Society; Providence, RI

Institute at Brown for Environment and Society Summer Research Award (May 2016)

Institute at Brown for Environment and Society; Providence, RI

Brown University Linking Internships and Knowledge Award (May 2015)

Brown University

Conferences Attended:

8th Biennial Conference of the International Biogeography Society (January 2017)

The University of Arizona; Tucson, AZ

23rd Annual International Society of Tropical Foresters Conference, Yale Chapter (January 2017)

Yale University; New Haven, CT

Memberships and Affiliations:

International Biogeography Society; Student Member (2017-Present)

500 Women Scientists; Providence Pod Member (2017-2019)