



The Shoemaker Lab

(<https://laurenshoemaker.weebly.com/>) in the Botany Department at the University of Wyoming is seeking applications for a Postdoctoral Research Associate in quantitative community ecology. This position will be part of the NSF funded Modelscapes Consortium and the postdoc will work closely with the globally distributed DRAGNet

(<https://nutnet.org/dragnet>) experiment. Our lab's research broadly focuses on integrating theory and experiments to understand the processes that structure ecological communities under current conditions and with future global change. The position is 100% research with a flexible start date, though preference will be given to candidates that can start by September 2023.

The position will link patterns in community composition to underlying mechanisms that maintain coexistence, including species interactions, spatio-temporal variability, stochasticity, dormancy, and dispersal. The lab utilizes a wide variety of methods to study these topics, and the successful applicant will have the opportunity to shape their own projects using multiple potential methods, such as building theoretical models, field experiments, analyzing pre-existing datasets, or using microcosm experimental tests of theory. Competitive candidates should have interest or previous experience working in highly collaborative settings, as the position requires collaboration with local, U.S. based, and international ecologists. The successful applicant will join the new globally distributed experiment DRAGNet and will help lead a cross-site seed bank study with the aim of connecting patterns in grassland dispersal and dormancy to community recovery from disturbance. Additionally, the applicant will lead data collection at our local DRAGNet field site. The position allows for multiple professional development opportunities including presenting to local stakeholders, teaching modules in the Program in Ecology and/or the School of Computing, and mentoring both graduate and undergraduate students.

Our lab is dedicated to creating an inclusive and equitable environment where all members feel safe and supported in all aspects of their identity. We recognize that science, academia, and our society are improved by integration of diverse perspectives, and we encourage applicants from underrepresented groups to apply. The successful candidate will be expected to contribute to an open and inclusive working environment.

This position will be a part of the NSF funded Modelscapes Consortium. Thus, the postdoc will join a large cohort of postdocs across the University of Wyoming, University of Nevada Reno, and University of Montana. Members of this consortium have wide ranging interests from population and community dynamics to ecosystem ecology and population genetics but are

united by the desire to develop and improve methods for statistical inference from ecological and evolutionary data. More information on the Modelscapes consortium can be found at: <https://microcollaborative.atlassian.net/wiki/spaces/MP/overview>.

To apply for the position, please submit a cover letter, CV, links to 1-2 recent first-authored publications, and names and contact information for three professional references at the following link:

https://eeik.fa.us2.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_1/job/230948/?utm_medium=jobshare.

Applications will be accepted through May 12, 2023. The position is through August 2024, with the potential for extension, contingent on an NSF No-Cost extension. The position provides a competitive benefits package, including health insurance, contributions to a retirement account, \$3,000 to cover moving expenses, and an annual salary of \$55,704.

If you have questions about the position, please send an email to lshoema1@uwyo.edu.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Lead data collection at our local Wyoming DragNet site and help facilitate cross-site collaboration.
- Participate in collaborative manuscripts through the Modelscapes Consortium.
- Lead an analysis of community responses to global change.
- Present results through peer-reviewed publication and presentations at conferences.

QUALIFICATIONS:

Competitive candidates should be highly motivated, with a demonstrated ability or interest in working both independently and in highly collaborative settings. Candidates should possess a PhD in ecology and evolutionary biology, environmental science, statistics, computer science, or a related field by their start date. Strong botanical identification skills, programming ability in R, and a background in ecological community theory are preferred. Evidence of excellent oral and written communication through conference presentations and submissions of previous work to peer-reviewed journals.

ADDITIONAL INFORMATION:

The University of Wyoming has strong research programs in ecology and evolutionary biology across multiple departments, including Botany, Zoology and Physiology, Ecosystem Science and Management, Plant Sciences, and the Program in Ecology. The university is located in Laramie, a community that is nestled between the Laramie and Snowy Mountain ranges, which offer ample opportunity for skiing, climbing, hiking, and mountain biking. Laramie has a relatively low cost of living, is close to field sites across a wide variety of vegetation types from mixed grass prairie to alpine tundra, rivers and lakes, and is within easy driving distance of Colorado's Front Range corridor (Fort Collins, Boulder, and Denver).

The University of Wyoming is an Affirmative Action/Equal Opportunity Educator and Employer. We are committed to a multicultural environment and strongly encourage applications from women, minorities, veterans, and persons with disabilities.