I am currently recruiting 1-2 Ph.D. students to start Fall 2021.
My lab combines evolution, ecology, and behavior to study how populations and communities respond to environmental change. We are particularly interested in how population responses and their consequences for community interactions vary across time and space. We use lab and field experiments, field collections, and population genomics. Work in the lab currently focuses on two study systems: Rhagoletis flies and Ambystomatid salamanders. More details are available at: alyciaarlackey.weebly.com

Potential research topics include, but are not limited to:
1) Testing how environmental changes affect selection on populations and evaluating how these changes alter community interactions (e.g., competition, predation, parasitism).
2) Testing how response to environmental change affects (the potential for) gene flow by measuring differences in habitat use, timing of reproduction, mating interactions, and/or reproductive success and estimating consequences for divergence and speciation.
3) Comparing population responses to environmental change across latitudinal gradients and examining potential contributions (e.g., differences in standing genomic variation, evolutionary history of selection and/or gene flow).

I welcome students from underrepresented groups in STEM. My mentoring approach is supportive, flexible, and student-centered. I am currently involved in efforts within my department and one of my professional societies to take actions that improve inclusivity and equity. There are also university fellowships to support students from underrepresented groups.

If you are interested in potentially joining my lab, please email me (alycia.lackey@louisville.edu) with (1) a ~1pg statement of your research interests, research experience, and motivation for going to grad school and (2) your CV or resume. Previous research experience in evolution, ecology, or behavior and with field work or genomics would be great, but this experience is not required.

Details on the application process are available here: http://louisville.edu/biology/graduate. Email me first before applying. Please note that the GRE is not required. Applications for fall 2021 are due by Jan. 15, 2020 to be considered for financial support. Financial support includes teaching assistantships, university fellowships, and diversity fellowships, all of which provide a stipend, tuition waiver, and health insurance.

The University of Louisville has ~23,000 students and is located close to downtown Louisville. Louisville is a fun and vibrant city with a variety of options for food, entertainment, and cultural experiences paired with access to hiking, kayaking, and other outdoor activities (https://www.gotolouisville.com/).