

## Positions in Integrative Biology: Combining Ecology, Remote Sensing and Genomics to Understand Population Dynamics

### Postdoctoral and graduate student positions available

The [Maloof](#), [Magney](#), and [Gremer](#) labs, and science educator [Jamison-McClung](#) at UC Davis are recruiting a postdoctoral scholar and graduate students for research and training as part of a collaborative, interdisciplinary research project. This [NSF-funded project](#) seeks to integrate quantitative genetics, genomics, ecology, and remote sensing to understand and predict plant population persistence in the face of climate change. More details about the project can be found on [NSF's abstract page](#).

Trainees will be engaged in rigorous, interdisciplinary work that integrates genetic, physiological, and environmental data to answer fundamental questions about population responses to climate shifts and consider the potential societal and policy impacts. Through workshops, coursework, peer-to-peer learning, and a mentoring network, the postdoctoral scholar will gain skills in computational, field, and remote sensing approaches.



We will also focus on building broad professional skills useful for a variety of post-PhD career paths, including an introduction to science communication, science policy, project management and best practices for creating inclusive research environments. Trainees will develop science communication skills via social media and blogging for the project website. Our collaborative research and training community will include Sacramento State University graduate students participating in the Advancing Diversity by Educating Professors of Tomorrow (ADEPT) program.

Our project team is looking forward to working with a diverse, interdisciplinary group of graduate students and postdoctoral researchers. We encourage all interested applicants to contact one of the participating lab PI's (contact info below) to discuss their interest in:

- Working broadly across disciplines with scientists at various stages of training and from diverse backgrounds.
- Analyzing, synthesizing, and communicating results from field work, remote sensing, and genetics/genomics to understand drivers of population dynamics and persistence.
- Gaining experience in mathematical modeling, statistical analysis, data science, and bioinformatics.

- Developing transferable professional skills necessary for long term success as a PhD scientist across public (e.g. academia and government) and private (e.g. industry and non-profits) sectors
- Communicating results through scientific publications, presentations, and outreach.

UC Davis is an Affirmative Action/Equal Opportunity employer, and we particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals' with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>

**Contact:** PIs: Julin Maloof ([jnmaloof@ucdavis.edu](mailto:jnmaloof@ucdavis.edu)), Troy Magney ([tmagney@ucdavis.edu](mailto:tmagney@ucdavis.edu)), Jenny Gremer ([jrgremer@ucdavis.edu](mailto:jrgremer@ucdavis.edu)), and Denneal Jamison-McClung ([dsjamison@ucdavis.edu](mailto:dsjamison@ucdavis.edu))

## How to Apply

**Postdoc position:** Apply at <https://recruit.ucdavis.edu/JPF05232>

Starting salary \$55,000 - \$60,000 depending on years of postdoctoral experience.

Interested applicants should feel free to contact the PIs for more information.

**Graduate students:** Interested applicants should contact the PIs and include a cover letter describing interests and relevant background and experience preferably **by November 11, 2022**.

Applicants will need to apply to graduate programs at UC Davis for admission. Julin Maloof accepts students through the [Plant Biology](#) and [Integrated Genetics and Genomics](#) graduate groups, Troy Magney and Jenny Gremer accept students through the [Graduate Group in Ecology](#), and Jenny Gremer also accepts students through the [Population Biology Graduate Group](#). Dr. Jamison-McClung does not accept students directly, but works with interdisciplinary faculty via the [ADEPT](#), [ADP](#) and [Designated Emphasis in Biotechnology](#) programs. The specific research PI and graduate program you apply to will depend on interests, background, and experience, so please contact PIs before applying to discuss options. Applications for all of these graduate programs are **due December 1, 2022**.

Funding will be a mix of graduate student researcher (GSR) positions (2 academic quarters + summer) and teaching assistantships (1 academic quarter) for 4 years. Stipends for 2021-2022 were ~\$8,822 per quarter (\$35,288 annually) and we anticipate 2023-2024 stipends to be higher, contingent on UCOP salary scales, collective bargaining agreements for student instructors, and graduate program guidelines.