

Immediately available: Postdoctoral position at the interface of bumble bee ecology and computer vision.

We seek to hire a postdoctoral scholar to develop and apply automated, camera-based methods to study the movement and abundance of insect pollinators. A particular focus is monitoring threatened and endangered bumble bees. The position is co-supervised by Profs. Timothy Warren (Oregon State University Corvallis, OR) and Lauren Ponisio (University of Oregon; Eugene, OR). This is a unique opportunity to join a funded, interdisciplinary collaboration between Oregon State University, the University of Oregon, the National Council for Air and Stream Improvement (NCASI), Cannabis for Conservation, and the California Department of Fish and Wildlife.

The successful candidate will help refine an established low-cost, open-source field system for automated, non-lethal bee monitoring. Furthermore, the candidate will develop models for detection and taxonomic classification of bumble bees using deep learning and other computer vision methods. The candidate will work closely with other postdoctoral scholars and students in the Warren and Ponisio labs, as well as expert bee taxonomists from the Oregon Bee Atlas project. The research could extend to other insect taxa and behaviors; the Warren lab has ongoing projects studying long-distance navigation in fruit flies.

The ideal candidate would have a PhD in a relevant field (e.g. biology, ecology, entomology, animal behavior, data science, computer science) and some prior experience with scientific programming. Crucial qualifications are intellectual curiosity, enthusiasm for pursuing research at the interface of insect ecology and computer vision, and an excellent track record in previous projects.

The candidate should be available to attend in-person weekly lab meetings in Corvallis. In addition, the appointee will engage in 2-3 weeks of yearly field work in Northern California, as part of a team. Corvallis is a desirable place to live and work -- with exceptional, year-round outdoor opportunities close by and throughout Oregon.

The initial appointment is for 1 year, with start date between February 1 and April 15, 2026 ; extension to 2 years or longer is possible, based on mutual agreement. Interested candidates should send a cover letter and CV (including publication list and contact information for 2-3 references) to tim.warren@oregonstate.edu and ponisiolab@gmail.com. Further information about our research is available at:

www.ponisiolab.com

<https://warren-lab.github.io/>

This position is available immediately.

For full consideration, please submit your materials by Tuesday, January 6, 2025.

Please forward this announcement to any interested parties.