Two PhD Positions on Dryland Vegetation Spatial Patterns

Two PhD positions are available in Dr. Xiaoli Dong's Group in the Department of Environmental Science and Policy at UC Davis.

More information about Dr. Dong's research can be found here: https://xdong05.github.io

The successful candidates will work on vegetation spatial pattern formation in dryland ecosystems, primarily using mathematical models, integrating data from field monitoring, experiments, and multi-sourced remote sensing imageries. Some of the model ecosystems we currently focus on include biological soil crust and vegetation patterns in drylands, coral reefs, and microbial communities on the floor of Antarctic lakes.

We are seeking motivated and creative PhD students with strong quantitative skills, or any quantitative students (e.g., in earth science, mathematics, physics, computer science) interested in ecological modeling, spatial ecology, and ecological theories. Training will be provided in theoretical and numerical modelling, statistical modeling, geospatial analysis, and remote sensing.

The successful applicants will be guaranteed 5 years of support, through a combination of teaching assistantships, research assistantships, and fellowships, including summer salary.

How to apply: Interested potential PhD students should contact Dr. Dong via email (xldong@ucdavis.edu). Dr. Dong can take PhD students through any one of the following graduate groups at UC Davis:
1. Graduate Group in Ecology: https://ecology.ucdavis.edu
2. Graduate Group in Applied Mathematics: http://appliedmath.ucdavis.edu
3. Population Biology Graduate Group: https://pbg.ucdavis.edu
4. Hydrological Sciences Group: https://www.hsgg.ucdavis.edu