

## How Should We Manage Forests in an Era of Climate Change?

Forests play a variety of important ecological, economic, and social roles that are threatened by climate change. In order to manage forests into the future, we need to better understand the biological responses of trees to changing environmental conditions. In particular, we need to know how well they can disperse into and establish in areas that are becoming climatically suitable, and how plasticity and genetic variation affect their ability to persist in areas that are becoming less suitable. In this talk, Dr. Moran will discuss several past and ongoing projects relating to these questions. Understanding the degree to which populations can adapt or shift their ranges on their own will help us to prioritize efforts to support forest health and function.



**Emily, Moran, PhD**  
**UC Merced**  
**Friday, March 1, 2019**

3:00 – 4:00 PM

Science 2, room 109

For further information: [www.csufresno.edu/biology](http://www.csufresno.edu/biology)

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**Bio:** Dr. Moran is an assistant professor at UC Merced. She earned in B.S. from the University of Michigan and her Ph.D. from Duke University. Her laboratory is interested in how ecological and evolutionary processes, and their interactions, may affect responses to environmental change. Several projects currently underway address how dispersal, local adaptation, and disturbance rate will affect responses to climate change in Sierra Nevada pines.

<https://sites.google.com/site/moranplantlab/home>

If you need a disability-related accommodation or wheelchair access, please contact Lindasue Garner at the Department of Biology at 278-2001 or e-mail [lgarner@csufresno.edu](mailto:lgarner@csufresno.edu) (at least one week prior to event).