



CAES

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CAES SEMINAR SERIES

On Zoom:

<https://us02web.zoom.us/j/85834199921?pwd=eG4rTHdtbnlxK3JaOHpQQUQ4aVJIUT09>

Meeting ID: 858 3419 9921 Passcode: 0DPygB

“Climate Change and Insect Declines in the Tropics”



Dr. Carlos Garcia-Robledo

Assistant Professor

Dept. of Ecology and Evolutionary Biology

University of Connecticut

Wednesday, February 16, 2022

12:00 p.m. to 1:00 p.m.

Food and coffee will be available for pickup at 11:45 a.m. in Jones Auditorium.

The Connecticut Agricultural Experiment Station

123 Huntington Street, New Haven, CT

Tropical mountains might protect species from global warming by facilitating biotic migrations upslope. Current predictions of tropical biotic responses to global warming are based on correlations between species elevational distributions and temperatures. Because biotic attritions, range shifts, and mountaintop extinctions result from complex demographic processes, predictive models must be based on mechanistic associations between temperature and fitness. Using plant-insect interactions, we combined long-term temperature records with experimental demography to determine the contribution of local adaptation to organismal resilience in a warming world.