Department of Biology

Biology Seminar Series

Friday, April 4, 2025

(12:00 - 1:00 pm) Gilmer 390

Megan Fritz, PhD

Associate Professor, Department of Entomology, Institute for Advanced Computer Studies, University of Maryland

Genome evolution in a lepidopteran pest in response to modern agricultural practices

Human activities impose strong and shifting selection pressure on communities of organisms, shaping their phenomes and genomes. A major objective of the field of evolutionary genomics is to move beyond documenting the phenomenon of rapid evolution, and instead, uncover the rules that govern how these responses occur on short timescales. Agricultural ecosystems (agroecosystems) are useful for investigating mechanisms of rapid evolution, both due to the well-understood nature of selection in these ecosystems and their relatively simplified ecosystem structure.

Seminar Host: Alan Bergland, PhD

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