UC RIVERSIDE

DEPARTMENT OF ENTOMOLOGY

Entomology Seminar Series

Speaker:

Sarah Schroeder Ph.D.
University of California, Riverside

Date: Monday November 4, 2024
Time: 4:00 pm - 4:50 pm
Format: In-Person Seminar & Virtual Access
Location: Genomics Auditorium 1102A
Zoom: 952 1906 3064
Passcode: 505445

Title:
"***Red stripes and splotches: UCE phylogeny of Phylinae (Hemiptera: Miridae) reveals evolution of color patterns***"

Abstract:

Miridae are one of the most speciose families of true bugs, containing >11,000 species. These phytophagous and predatory insects can be found in all biogeographic regions interacting closely with their plant hosts. Phylinae, the second largest subfamily of Miridae with >2,700 described species, are cosmopolitan with highest diversity in temperate regions. Members of Phylinae show variation in body coloration and form (i.e., myrmecomorphy and cryptic coloration on host plants). This large subfamily has seen a rapid increase in description of taxa over the past 45 years, however densely sampled and well supported phylogeny of the group is currently available. We here present the first UCE-based phylogenetic hypothesis for Phylinae providing the most taxon- and data-rich phylogeny of the group. Additionally, the evolution of ancestral color patterns is investigated with an emphasis on myrmecomorphic and cryptically colored Phylinae.

Refreshments will be served in the Entomology Building at 3:30 pm