



RIVERSIDE

DEPARTMENT OF ENTOMOLOGY
Entomology Seminar Series



Speaker:

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Date: Monday January 13, 2025
Time: 4:00 pm - 4:50 pm
Format: In-Person Seminar & Virtual Access
Location: Genomics Auditorium 1102A
Zoom: 952 1906 3064
Passcode: 505445

Title:
"From Larval Ecology to Adult Host-Seeking: Network Approaches in Mosquito Transcriptomics"

Abstract:

Mosquitoes are critical vectors of diseases that threaten millions of lives annually. Their development in diverse larval habitats influences their adult behavior and vector potential, and female body size plays a pivotal role in host-seeking and reproductive traits.

In this talk, I will discuss how intraspecific competition during larval stages impacts adult females' host-seeking preferences and olfactory responses. I will delve into how network-based approaches to transcriptomic data analysis reveal key 'hub genes' that mediate these behavioral links.

I will emphasize how these analytical methods provide deeper insights into the complex interactions between ecological factors and gene expression patterns. Finally, I will discuss how these findings form the foundation of my current research, which aims to uncover the molecular mechanisms driving mosquito behavior in wild populations.