

Student Seminar Day
18 September 2024
Genomics Auditorium

8:30-9:00 Continental Breakfast and Coffee (Genomics Lobby)

9:00-9:05 Welcome Remarks – Dr. Rick Redak, Chair and
Hannah Chu, Master of Ceremonies

MORNING ORAL PRESENTATIONS
SESSION I (9:05 – 10:20)

- 9:05 Molly Barber- Impacts of Insect Herbivory on a Fire
Follower in Coastal Sage Scrub
- 9:20 Mona Tran- Unbinding the bindweed psyllid (*Bactericera
maculipennis*) from its Convolvulus host exposes it to a novel
bacterial symbiont
- 9:35 Jacqueline Holquinn- Poultry Housing Transitions and
Spillover Risks
- 9:50 Emily Ta- Behavioral Responses of the German
Cockroach, *Blattella germanica* (L.) to Insecticidal Baits
- 10:05 Yadira Romero Diaz- Comparative Analysis of Bumble
Bee Body Size in Alaskan Habitats
- 10:20-10:30 Break

MORNING ORAL PRESENTATIONS
SESSION II (10:30 – 11:45)

- 10:30 Savana Becerra- Immunity priming compounds have
variable effects on muskmelon (*Cucumis melo*) resistance to
insect-transmitted viral pathogens
- 10:45 Tobias Moyneur- Hormone Havoc: How Methoprene
Messes with Ants' Weight, Wax, and Wits
- 11:00 Ashley Bui- Elucidating the geographic origins of a
Wasmannia parasitoid wasp, *Oasema minutissima*
(Chalcidoidea: Eucharitidae), in Hawai'i
- 11:15 Blanca Peto - Social Control of Egg-Laying in
Independently Nest-Founding Bumble Bee Queens
- 11:30 Joshua Reger - Tracking California's tree nut nemesis:
Using omics and isotopes to differentiate *Amyelois transitella*
based on larval host

11:45-12:00 Break & Group Photo (Entomology Courtyard)

12:00-1:00 PM Lunch (Entomology Courtyard)

Poster Presentations
Genomics Breezeway

POSTER SESSION I (1:00-1:40)

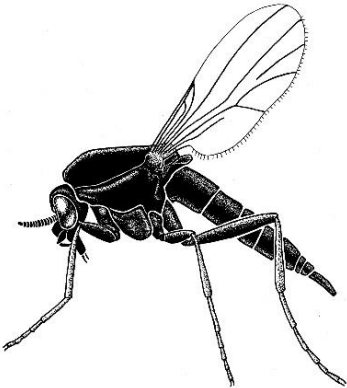
- Christopher Allen- What the F-st: Genomic comparison of two
admixed honey bee populations
- Cerda Lauren- Predation and Prey Size: A Comprehensive Study
of Mantid Feeding Preferences
- Genesis Chong- Mite Be Trouble: Protein Defense Mechanisms
of Honeybee Larvae Post-Exposure
- Hannah Chu- Decomposers in Joshua Tree National Park: Blow
fly (Diptera: Calliphoridae) communities across the Mojave and
Sonoran deserts
- Rattanan Chungsawat- THEY DO NOT WORK! The failing
performance of residual Over-the-Counter (OTC) sprays against
German cockroach (Blattodea: Ectobiidae)
- Remi Flannery- Are native plants outcompeted by invasive plants
in an arid ecosystem?
- David Grajeda- Benthic Macroinvertebrate Biodiversity in the
Colorado Rockies
- Rebecca Keim- Harvester ant nest and foraging trails
associations with invasive plant species
- Daniella Lu- Evaluation of Native Harvester Ants as a Vector for
Oncosiphon Piluliferum Dispersal
- Jun Yin Lum- Differential performance of commercial gel baits
against two species of domiciliary pest cockroaches
- Jessica Maccaro - Artistic Expression of Original Research: A
Case Study on Symbiotic Science Communication
- Nagham Melhem - Determination of ecdysteroidogenic tissues
and stages in *Aedes aegypti* larvae
- Thomas Son - Determining How a Plant Pathogen (Liberibacter)
May Increase Insect Vector Fitness

Poster Change out 1:40-1:45

POSTER SESSION II (1:45-2:30)

- Hannah Moore - Starvation and Its Effects on Male Bumble Bee
Pheromone Production
- Meghan Moore- Male incubation in bumble bees and its effects
on early nest development
- Emily Najera- Peek-a-Bee: Honeybee Behavioral Response to
Olfactory Stressors
- Lyna Ngor- From Soil to Sky: How Wastewater Shapes the
Microbial World of Wild Bees
- Nicholas Poulos- Determining the age of drywood termite fecal
pellets utilizing comparative analysis of bacterial diversity
- Kunal Ramarapu- Developing and implementing phenotyping
approaches to quantify and assess the impact of trichome density
on *B. tabaci* (whitefly) resistance in melons (*Cucumis melo*)
- Jordan Reyes- Mosquito body mass variation affects permethrin
susceptibility in *Aedes aegypti*
- Joelene Tamm- Heat treatment protocols for sanitizing oak
firewood infested with goldspotted oak borer, *Agrilus auroguttatus*
(Coleoptera: Buprestidae)
- Sharmely Valladolid - Influence of larval competition on behavior
and adult traits in mosquitoes
- Maria Mendiola - Mosquito larval competition and adult behavior
- Benjamin van Raalte - A low-cost staining method for improved
visualization of sweet potato whitefly (*Bemisia tabaci* MEAM1)
eggs on multiple crop plant species
- Jessica Webb- Two bees or not two bees: a survey of
comparative management styles between two honey bee
genotypes

2:30-2:40 Break



AFTERNOON ORAL PRESENTATIONS
SESSION III (14:40 – 15:35)

2:40 Emilia Burnham- "To (*Nosema*) Immunity and Bee-yond!"
Uncovering the molecular secrets of survivor and managed honeybee immunity in response to *Nosema ceranae*
3:05 Tzu-Chia Chen- Investigation of Morphology, Colony Structure, and Population Dynamics of *Reticulitermes* spp. in Riverside County
3:20 Xingwei Feng- Indirect suppression of Pharaoh ant colonies via horizontal transmission of bait toxicants targeting German cockroaches
3:35 Karla Lemus Portillo - Comparing Blow Fly Development Across Rearing Substrates

3:35-3:45 Break

3:45 Haneal Pae - *Drosophila* require both green and UV wavelengths for sun orientation but lack a time-compensated sun compass
4:00 Sakshi Watts - The Symphony of Survival: Understanding Hive Health and Bee Communication
4:15 Soon Kwon - Non-Target Effects of Alginate Hydrogel Beads used for Argentine Ant Control in Citrus Orchards
4:30 Blanca Ortega (Guillen) - Diploid Male Frequencies in Alaskan Bumble Bee Populations

4:45-5:00 Break

5:00-7:00 Dinner Reception (UCR Botanic Gardens)

Welcome
New Entomology Graduate Students:

Emilia	Burnham	Dr. B Baer Dr. K Mauck
Rattanan	Chungsawat	Dr. C-Y Lee
Xingwei	Feng	Dr. C-Y Lee
Matthew	Fox	Dr. C Weirauch
Jenni Daniela	Garcia Quiceno	Dr. B Cass
Leon	Kataw	Dr. A Murillo
Karla	Lemus Portillo	Dr. A Gerry
Jorge	Mora	Dr. Q McFrederick
Thomas	Nonacs	Dr. J Purcell
Alejandra	Rocha	Dr. B Cass
Melissa	Thayer	Dr. H Wilson



31st Annual
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