

CURRICULUM VITAE

Mark Dery

Department of Entomology
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Education

- Ph.D. in Entomology – In Progress; Expected December 2021
University of California, Riverside
Summer 2016 – Present
Advisor: Dr. Dong-Hwan Choe
- Bachelor of Science in Biology, Cum Laude
California State University, San Bernardino
CSUSB GPA: 3.65
Fall 2013 – Spring 2016
- Associate in Math & Science with Distinction
Riverside Community College District
GPA: 3.45
Fall 2011 – Spring 2013

Experience

- Graduate Student Researcher, Spring 2019 – Present
University of California, Riverside
- Teaching Assistant, Fall 2017 – Winter 2019
University of California, Riverside
Natural History of Insects (Fall 2017, Winter 2018, Winter 2019)
Urban Entomology (Spring 2018)
Insect Behavior (Fall 2018)
- Research Initiative for Scientific Enhancement program, August 2015 – June 2016
California State University, San Bernardino

Publications

- **Dery M**, Lee CY, and Choe DH (2021) Differential responses to aldehyde pheromone blends in two bed bug species (Heteroptera: Cimicidae). *Chemoecology*, 31:397–403. <https://doi.org/10.1007/s00049-021-00359-z>
- **Dery M**, Arriola K, Lee CY, and Choe DH (2020) Ontogenesis of aldehyde pheromones in two synanthropic bed bug species (Heteroptera: Cimicidae). *Insects*, 11:759. <https://doi.org/10.3390/insects11110759>

Laboratory Skills

- Bed bug field strain collection / colony maintenance / insecticide resistance testing / toxicological assays
- Mosquito colony maintenance / insecticide resistance testing
- Statistical analysis using R, Statistix 9, SigmaPlot
- Pheromone detection / quantification from biological samples (e.g. bed bug, bed bug cast skins, headspace volatiles) using various analytical techniques (e.g. solid phase microextraction, gas chromatography – mass spectrometry, gas chromatography – flame ionization detector, thin layer chromatography)
- Behavioral bioassays (e.g. olfactometer, insect video tracking using Ethovision XT)
- Microbiology techniques (e.g. maintaining fungal cultures, preparing spore suspensions)

Oral Presentations

Wash-off Potential of Pyrethroids after Use of Total Release Foggers. 2021 Surface Water Protection Program's Annual Research Collaborators Meeting (virtual). March 17, 2021.

UC Riverside Research Update: Advances in Pheromones and Novel Detection Methods. Joint presentation with Dong-Hwan Choe at the 2020 Global Bed Bug Summit (virtual). December 2-3, 2020.

Effect of Bed Bug Aldehydes on Fungal Biopesticides. 2020 Entomological Society of America Annual Meeting (virtual). November 11-25, 2020.

Ontogenesis of Aldehyde Pheromone in Bed Bugs (Heteroptera: Cimicidae). 2019 Entomological Society of America Annual Meeting, St. Louis, MO, November 20, 2019.

Measurement of Aldehyde Pheromone in Bed Bugs (Heteroptera: Cimicidae). 28th UCR Urban Pest Management Conference, University of California, Riverside, March 20, 2019.

Ontogenesis of Aldehyde Pheromone in Bed Bug (Heteroptera: Cimicidae). 2018 ESA, ESC, ESBC Joint Annual Meeting, Vancouver, BC, Canada, November 13, 2018

Poster Presentations

Wash-off Potential of Pyrethroids after Use of Total Release Foggers. American Chemical Society Fall 2020 Meeting (virtual). August 17 - 20, 2020.

Wash-off Potential of Pyrethroids after Use of Total Release Foggers. 29th UCR Urban Pest Management Conference (virtual). May 18 – 20, 2020.

Depositional Pattern of Pyrethroid Insecticides After Use of Total Release Fogger Products. Surface Water Pesticide Collaborators Research Annual Meeting 2019, University of California, Davis, March 28, 2019.

Depositional Pattern of Pyrethroid Insecticides After Use of Total Release Fogger Products. 28th UCR Urban Pest Management Conference, University of California, Riverside, March 20, 2019.

Inhibition of an Entomopathogenic Fungus by Volatile Aldehydes Associated with Bed Bug Exuviae. 27th UCR Urban Pest Management Conference, University of California, Riverside, March 21, 2018.

Inhibition of a Pathogenic Fungus by Bed Bug Aldehydes. 26th UCR Urban Pest Management Conference, University of California, Riverside, March 29, 2017.

Characterization of a Field Strain of the Mosquito *Culex quinquefasciatus* for the Distribution of Esterase Activity Variants Associated with Insecticide Resistance. 5th Annual Meeting of the Minds, California State University, San Bernardino, May 19, 2016.

Awards and Achievements

- Carl Strom / Western Exterminator Scholarship in Urban Entomology, 2021
- Robert and Peggy van den Bosch Memorial Scholarship, 2020
- Harry Shorey Award, 2020
- Carl Strom / Western Exterminator Scholarship in Urban Entomology, 2020
- Robert and Peggy van den Bosch Memorial Scholarship, 2019
- Harry S. Smith Biological Control Award, 2019
- Carl Strom / Western Exterminator Scholarship in Urban Entomology, 2019
- Carl Strom / Western Exterminator Scholarship in Urban Entomology, 2018
- Carl Strom / Western Exterminator Scholarship in Urban Entomology, 2017
- CSUSB Biology Department Honors, 2016
- CSUSB Faculty / Student Research Grant, 2016
- Northern Tier Seasonal Staff Scholarship, 2012
- Owen Locke Memorial Scholarship, 2011
- Eagle Scout, 2010