

Curriculum Vitae

Shao-Hung Lee
Riverside, CA 92507
slee228@ucr.edu
(916) 897-0333

Education

University of California, Riverside

Doctor of Philosophy in Entomology (2023 Expected)

- Cumulative GPA 4.00 (Spring 2021)

University of California, Riverside

Bachelor of Science in Entomology (2018)

- Cumulative GPA 3.76

Research Interests

Insecticide resistance

- Detection and implications, novel mechanisms, and management strategies

Urban entomology

Research

Graduate dissertation research at UC Riverside under Dr. Chow-Yang Lee, German cockroach insecticide resistance and gut microbiota (Summer 2018 – Present)

- Resistant profiling of German cockroach field strains
- Effects of artificial sweeteners
- Role of the gut microbiota in resistance

Research assistant at UCR Riverside under Dr. Dong-Hwan Choe, focused on Argentine ant behavior and genetics (Summer 2016 - Spring 2018)

- EthoVision XT video tracking program to monitor ant behavior
- PCR and qPCR in RNAi control method experiments

Publications

1. **Lee, S.-H.**, D.-H. Choe, M. K. Rust, C.-Y. Lee. 2021. Reduced susceptibility towards commercial bait insecticides in field German cockroach (Blattodea: Ectobiidae) populations from California. *J. Econ. Entomol.* *Accepted, i.p.*

2. Lee, S.-H., D.-H. Choe, Lee, C.-Y. 2021. The impact of artificial sweeteners on insects. *J. Econ. Entomol.* 114(1), 1–23.
3. Welzel, K., S. H. Lee, A. T. Dossey, K. R. Chauhan, D.-H. Choe. 2018. Verification of Argentine ant defensive compounds and their behavioral effects on heterospecific competitors and conspecific nestmates. *Sci. Rep.* 8(1), 1477.

Oral Presentations

1. Investigation of insecticide resistance mechanisms in field-collected German cockroaches (*Blattella germanica* L.) from California. Entomological Society of America Annual Meeting. November 1, 2021.
2. The impact of an artificial sweetener on insecticide resistant and susceptible German cockroaches (*Blattella germanica* L.) (virtual). Entomological Society of America Annual Meeting. November 11-25, 2020.
3. Understanding and managing insecticide resistance in the German cockroach (virtual). UCR Urban Pest Management Conference. March 2020.

Poster Presentations

1. Investigation of insecticide resistance in field-collected German cockroaches (virtual). UCR Urban Pest Management Conference. March 2021.
2. Reduced bait performance in field-collected German cockroaches (virtual). UCR Urban Pest Management Conference. March 2020.
3. Exploring insecticide resistance profiles of German cockroaches in California. UCR Urban Pest Management Conference. March 2019.

Grants, Fellowships, and Scholarships

Carl Strom and Western Exterminator Scholarship (2017, 2018, 2019, 2020, 2021)
Chancellor's Distinguished Fellowship (2018)

Employment and Teaching

Teaching Assistant at UC Riverside

- ENTM 100 General Entomology (Spring 2021)
- ENTM 133 Urban Entomology (Spring 2020)

Full Time Research Assistant at UC Riverside (June 2017 - September 2017) Under Dr. Dong-Hwan Choe

- Involved in monitoring and collecting data for Argentine ant activity at residential areas treated with industrial baits
- Repellency effects of ActiveGuard Mattress Liner for bed bugs

Extracurricular Activities and Service

Entomology Graduate Student Association at UC Riverside – Hospitality Committee

- Chair (2019 – Present)

Outreach Coordinator – UC Riverside Department of Entomology Outreach Program

- Fall 2018, Summer 2019

Botany and Entomology Undergraduate Student Association at UC Riverside

- President (Spring 2017 - Present)
- Treasurer (Spring 2016 - Spring 2017)

References

Chow-Yang Lee

Professor and Endowed Chair in Urban Entomology

Department of Entomology, 339 Entomology Bldg., University of California,
Riverside Riverside, CA

chowyang.lee@ucr.edu (951) 827-2626

Dong-Hwan Choe

Associate Cooperative Extension Specialist and Associate Professor

Department of Entomology, 382 Entomology Bldg., University of California,
Riverside Riverside, CA

donghwan.choe@ucr.edu (951) 827-5717