

CURRICULUM VITAE

Deena W. Husein

CONTACT INFORMATION:

Department of Entomology
University of California, Riverside
Phone: 678-296-7808, Email: dhuse001@ucr.edu

EDUCATION:

University of California, Riverside 2016- Present
Ph.D. Candidate

University of Georgia, Athens 2009- 2013
Bachelor of Science in Agriculture
Bachelor of Science in Environmental Sciences
Majors: Biological Sciences and Entomology, *Cum laude*

RESEARCH EXPERIENCE:

University of California, Riverside July 2016- Present
Graduate student, Advisor: Richard Stouthamer

- Focus of research: initiating a biological control program against the polyphagous shot hole borer (PSHB) by rearing parasitoid wasps, parasitic nematodes, and/or predatory mites.
- Use of multiple molecular tools to assist in identification of potential natural enemies and their association with the *Euwallacea* cryptic species complex.
- Optimize rearing methods of PSHB by assessing the fecundity rate and development time when reared on different host plant sawdust and fully artificial media.

Kyushu University: Asia-Georgia Internship Connection Fukuoka, Japan
Research assistant, Advisor: Midori Tuda Sept. 2013-Dec. 2013

- Tested the effects of increased CO₂ levels on the early life cycle of the Adzuki bean beetle.
- Tested the effects of high egg density per bean on Adzuki bean beetle development.

PROFESSIONAL TRAINING COURSES:

Insect Diet Science and Technology Oct. 2020
Insect Rearing Systems Operations Nov. 2020
Design and Control of Insect Rearing Systems Dec. 2020
-Courses taught virtually by Dr. Allen Cohen from North Carolina State University

TEACHING AND MENTORING:

Teaching assistant for "Natural History of Insects" Winter 2018 & Spring 2019
Undergraduate mentor to:
Rattanan Chungsawat (Sept. 2018- Mar. 2020) and Choi Chow (Dec. 2019- Mar. 2020)

CONFERENCE AND DEPARTMENTAL PRESENTATIONS:

Husein, D., Stouthamer, R. A predator in disguise? Just "mite" be. Predacious behavior of phoretic mites associated with the polyphagous shot hole borer (*Euwallacea fornicatus*). Poster and 3 minute virtual presentation delivered at University of California, Riverside Department of Entomology annual student seminar day. Riverside, CA, September 2020.

Husein, D., Rugman-Jones, P., and Stouthamer, R. Hitchhiker's guide to the gallery: a closer look at nematodes associated with the polyphagous shot hole borer. Oral presentation delivered at the Entomological Society of America Pacific Branch. San Diego, CA, April 2019.

Chungsawat, R., **Husein, D.**, and Stouthamer, R. Attempts at optimizing rearing protocols of the polyphagous shot hole borer (*Euwallacea whitfordiodendrus*). Poster presentation delivered at the Entomological Society of America Pacific Branch. San Diego, CA, April 2019.

Husein, D., Rugman-Jones, P., and Stouthamer, R. Hitchhiker's guide to the gallery: a closer look at nematodes associated with the polyphagous shot hole borer. Oral presentation delivered at the Department of Nematology Winter Seminar Series. Riverside, CA, January 2019.

Rugman-Jones, P., **Husein, D.**, Eskalen, A., Stouthamer, R. Genetic integrity of cryptic *Euwallacea* spp. In a Taiwanese avocado orchard. Oral presentation delivered at the national Entomological Society of America meeting. Vancouver, BC, Canada. November 2018.

Husein, D., Rugman-Jones, P., and Stouthamer, R. Opening a can of worms: nematodes of the polyphagous shot hole borer. Poster presentation delivered at University of California, Riverside Department of Entomology annual student seminar day. Riverside, CA, September 2018.

Husein, D., Rugman-Jones, P., and Stouthamer, R. (2018, June). Hidden treasures of Taiwan: promising natural enemies of the polyphagous shot hole borer. Oral presentation delivered at the Entomological Society of America Pacific Branch. Reno, NV, United States.

Rugman-Jones, P., Dodge, C., **Husein, D.**, Stouthamer, R. ISHB pest-disease complex: biology, trapping, deterrents, and biological control. Oral presentation delivered at University of California Agriculture and Natural Resources 2018 Invasive Shot Hole Borer Training Series. December 2018.

Rugman-Jones, P., Stouthamer, R., Dodge, C., **Husein, D.**, Fernandez, V. Update on the invasive Shot Hole Borers in southern California. Oral presentation delivered at CAPCA ED Carlsbad, CA. August 2017.

PUBLICATIONS (scientific journals, magazines and blogs):

Husein, D., Rugman-Jones, P., Chien, I., Lara, R., Liu, C., and Stouthamer, R. Parasitoids associated with ambrosia beetles in the *Euwallacea fornicatus* species complex in Taiwan (Coleoptera: Curculionidae: Scolytinae). **(In progress)**

Rugman-Jones, P.F., Au, M., Ebrahimi, V., Eskalen, A., Gillett, C.P.D.T., Honsberger, D., **Husein, D.**, Wright, M.G., Yousuf, F., Stouthamer, R., 2020. One becomes two: second species of the *Euwallacea fornicatus* (Coleoptera: Curculionidae: Scolytinae) species complex is established on two Hawaiian Islands. PeerJ 8, e9987.

Carillo, J., Kasson, M., Stajich, J., Rugman-Jones, P., Stouthamer, R., **Husein, D.**, Carrillo, D., and Eskalen, A. (2019). Members of the *Euwallacea fornicatus* species complex exhibit promiscuous mutualism with ambrosia fungi in Taiwan. Fungal Genetics and Biology, 133.

Husein, D. (2019, September). A "boring" problem that's generating big interest in southern California. Topics in Subtropics, 20.

Lara, J. R., **Husein, D.**, Dodge, C., Rios, S., Stouthamer, R. (2019, October). Situation update on the polyphagous shot hole borer in California. The California Association of Pest Control Advisers-Adviser, 53, 46-52.

GRANTS AND AWARDS:

Eugene Cota Robles Award University of California, Riverside	Sept. 2016
Harry Scott Smith Biological Control Award University of California, Riverside	July 2020
Pacific Branch meeting 2nd place Ph.D. oral presentation Entomological Society of America	June 2018
Robert van den Bosch Scholarship	June 2019 & July 2020

University of California, Berkeley

SERVICE:

UCR Entomology Outreach (Over 150 hours) 2016-2021

2021 Riverside Annual Insect Fair- Insect Damage Live Panel
2019 Riverside Annual Insect Fair- Biological Control booth
2019 Early Childhood Services- Touch a bug!
2018 Riverside Annual Insect Fair- Biological Control booth
2018 San Bernardino County Museum's Insectival
2017 Learning Expo at the Fairplex Center in Pomona, CA

UCR Entomology Graduate Student Association

Social committee co-chair 2016-2019
Secretary 2016-2017

Entomological Society of America Pacific Branch 2019-2020

Graduate Student representative
Co-organized Annual Meeting Student Career Fair (canceled due to COVID-19)