

CURRICULUM VITA

MADISON SANKOVITZ

University of California Riverside, USA 92507  
E madison.sankovitz@email.ucr.edu T 503.313.8807

EDUCATION

Ph.D. Entomology (expected 2022) University of California Riverside Advisor: Professor Jessica Purcell	2017-present
B.A. Ecology and Evolutionary Biology University of Colorado Boulder Honors thesis: Effects of the mound nests of the ant <i>Formica podzolica</i> on soil moisture, nitrogen, and vegetation Advisor: Professor Michael Breed <i>Magna Cum Laude</i>	2017
School for International Training - Cairns, Australia World Learning: Rainforest, Reef, and Cultural Ecology.	2016
University of Tasmania - Hobart Institute for Marine and Antarctic Studies – independent study.	2016

SELECTED HONORS AND AWARDS

UCR NRT Integrated Computational Entomology Fellow ▪ National Science Foundation	2018-2021
1st Place, P-IE Ecology Grad Student 10-Minute Paper Competition ▪ Entomological Society of America	2019
1st Place, Student Seminar Day Poster Competition ▪ University of California Riverside Entomology Dept.	2019
Chancellor's Distinguished Fellowship ▪ University of California Riverside	2017-2018
Graduate Research Fellowship Program Honorable Mention ▪ National Science Foundation	2018
Esteemed Scholars Award ▪ University of Colorado Boulder	2013-2017

JOURNAL PUBLICATIONS

- de la Mora, A.\*, **Sankovitz, M.\***, & Purcell, J. (2020). Ants (Hymenoptera: Formicidae) as host and intruder: recent advances and future directions in the study of exploitative strategies. *Myrmecological News*, 30.
- Sankovitz, M. A.**, Breed, M. D., & McCreery, H. F. (2019). Effects of *Formica podzolica* ant colonies on soil moisture, nitrogen, and plant communities near nests. *Ecological Entomology*, 44(1), 71-80.
- Hale, A., Bougie, T., Henderson, E., **Sankovitz, M.**, West, M., & Purcell, J. (2018). Notes on hunting behavior of the spider *Euryopsis californica* Banks, 1904 (Araneae: Theridiidae), a novel predator of *Veromessor pergandei* (Mayr, 1886) harvester ants (Hymenoptera: Formicidae). *The Pan-Pacific Entomologist*, 94(3), 141-146.

\*These authors contributed equally to this work

RESEARCH GRANTS

Envir. dynamics of ecosystem engineering ants and their modifications of soil structure ▪ \$70,344 USDA National Institute of Food and Agriculture Predoctoral Fellowship	2020-2022
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Environmental influences on bioturbation and nest architecture of montane ants ▪ \$4,518 Boulder County Parks & Open Space, Small Grants Program	2019
Effects of the ant <i>Formica Podzolica</i> on soil moisture, nitrogen, and plant communities ▪ \$1,500 University of Colorado Boulder, Undergraduate Research Opportunity Program	2016-2017

## PRESENTATIONS & INVITED LECTURES

- “Nest architecture response to temperature in *Formica* ants.” *Entomology 2020*; Virtual, 11-25 November 2020. Invited oral presentation.
- “Nest architecture response to temperature in *Formica* ants.” *Southern California Animal Behaviour Symposium*; San Diego, CA, 8 February 2020. Oral presentation.
- “Altitudinal patterns of *Formica* ant nest soil properties in California mountains.” *Entomology 2019*; St. Louis, MO, 18 November 2019. Oral presentation.
- Altitudinal patterns of Formica ant nest soil properties in California mountains.* Poster presented at the University of California Riverside Department of Entomology 26th Annual Student Seminar Day, Riverside, CA (2019).
- “Reproductive partitioning in polygynous, perennial *Vespula pensylvanica* colonies.” *2018 ESA, ESC, and ESBC Joint Annual Meeting*; Vancouver, Canada, 12 November 2018. Oral presentation.
- “Reproductive partitioning in polygynous, perennial *Vespula pensylvanica* colonies.” *UC Riverside Department of Entomology 25th Annual Student Seminar Day*; Riverside, CA, 19 September 2018. Oral presentation.
- “Reproductive partitioning in polygynous, perennial *Vespula pensylvanica* colonies.” *IUSSI 2018*; Guarujá, Brazil, 8 August 2018. Oral presentation.
- “Cooperation in insect societies.” Moreno Valley College BIO-12: Introduction to Organismal and Population Biology, Invited Guest Lecture. Quarterly oral presentation.
- Effects of the ant, Formica podzolica, on soil moisture, nitrogen, and plant communities.* Poster presented at the Southern California Animal Behavior Meeting, Los Angeles, CA (2018).
- Effects of the mound nests of the ant, Formica podzolica, on the surrounding vegetation.* Poster presented at the colloquium of the International Union for the Study of Social Insects - North American Section, Orlando, FL (2016).

## TEACHING AND MENTORSHIP EXPERIENCE

University of California Riverside ▪ Summer RISE Research Program Mentor for three undergraduate students: Stephanie Loyola, Shukerrah Palmer, and Zaara Said	2020
Research mentorship of undergraduate students Liz Gonzalez, Darin McGuire, Christian Ortiz, Gary Wu	2019-2020
University of California Riverside ▪ Department of Entomology ENTM 060W: Scicomm: Exploring Effective Communication Methods in the Life Sciences, Teaching Assistant	2019
University of Colorado Boulder ▪ Department of Ecology and Evolutionary Biology EBIO 3080: Evolutionary Biology, Learning Assistant	2016-2017
University of Colorado Boulder ▪ Department of Ecology and Evolutionary Biology EBIO 3240: Animal Behavior, Undergraduate Teaching Assistant	2016

## CERTIFICATIONS

## SCIENCE COMMUNICATION/OUTREACH

- SciComm @ UCR, *President* 2018-present
- Founded and lead University of California Riverside's inaugural science communication student organization
  - Organized multiple science communication workshops and speaking events, including TEDx UCR 2020
  - Host of the podcast *Beyond the Bench*
- Science for Citrus Health, *Team Member* 2019-present
- Run social media accounts for this outreach group focused on huanglongbing (HLB) research
  - Host *Beyond the Bench* podcast episodes featuring citrus scientists
  - Develop educational materials to explain research approaches addressing HLB
- ComSciCon, *Ambassador* 2018-present
- Contribute content for ComSciCon's web presence
  - Organized ComSciCon Entomology in 2019
  - Organizing ComSciCon-LA, to occur in 2021
- Insectes Sociaux, *Social Media Editor* 2018-present
- Interview authors and publish blog posts twice-monthly
  - Manage social media accounts
- Science Talk, *Marketing and Communications committee member* 2019-2020
- Ran social media accounts for this science communication non-profit organization
  - Aided in putting on the Science Talk '20 conference
- "Regenerative agriculture panel". *California Food and Agriculture Enterprise Event Series*; Riverside, CA, 4 June 2019. Panel moderator. 2019
- "Diversity and inclusivity in science communication". *University of California Riverside Let's Talk Science science communication workshop*; Riverside, CA, 24 April 2019. Panel moderator. 2019
- ComSciCon: the communicating science workshop for graduate students, by graduate students*. Poster presented at Science Talk '19, Portland, OR. 2019
- "How to be an entomologist". *AAUW STEM Redlands Branch Conference for 8th Grade Girls*; Redlands, CA, 5 March 2019. Oral presentation. 2019
- Entomology Graduate Student Association, *Fundraising Committee Member* 2018-2019
- Plan fundraising events for the UCR Entomology Graduate Student Association, including Riverside Insect Fair
  - Helped Riverside Insect Fair attract 14,000 visitors in 2018
- Riverside STEM Academy, *Science Olympiad Mentor* 2018-2019
- Tutor students in genetics and cellular biology for Science Olympiad
- University of California Riverside, *Entomology Outreach Program Graduate Student Coordinator* 2018
- Coordinated, resourced, and participated in outreach events at Riverside elementary schools and organizations
- UCR Entomology Outreach Program*. Poster presented at ComSciCon 2018 National Workshop, Boston, MA. 2018

## OTHER RELEVANT EXPERIENCE

- External Peer Reviewer
- Biological Reviews, Biology Letters, Biotropica, Molecular Ecology
- Engineers in Action, *Bridge Program Ambassador and Marketing Committee Chair* 2017-2019
- Lead marketing for the EIA Bridge Program
  - Organized the 2018 EIA Bridge Builder Conference

- Built and regularly update the website; conduct and collect media for the year-end fundraising campaign

Bridges to Prosperity, *University Program Ambassador, Bridge Builder, Outreach Coordinator*

2015-2018

- Program Ambassador for the University Program
- Bridge Builder, Outreach Coordinator, and Safety Manager for University of Colorado Boulder chapter
- Led fundraising of \$118,000 and built the program's inaugural footbridge (73 m span) in Swaziland

University of Colorado Boulder, *REU Intern, Research Assistant*

2014-2016

- National Science Foundation Research Experiences for Undergraduates Intern at Mountain Research Station
- Research Assistant in Dr. Kathryn Arehart's lab in the Department of Speech, Language, and Hearing Sciences
- Discovery Learning Apprentice under Dr. Lupita Montoya in the Department of Environmental Engineering

"Effective Storytelling." *2018 EIA Bridge Builder Conference*; Boulder, CO, 8 September 2018. Oral presentation.

"Collecting Media in the Field." *2018 EIA Bridge Builder Conference*; Boulder, CO, 8 September 2018. Oral presentation.