

Department of Entomology
University of California, Riverside
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Contact: bnyma001@ucr.edu

Education

- 2018-present Ph.D. In Entomology, expected spring 2023
University of California, Riverside – Advisor: Dr. Kurt Anderson
- 2015-2017 B.S. in Molecular Environmental Biology, concentration in Insect Biology
CNR Honors and Distinction
University of California, Berkeley – College of Natural Resources
- 2013-2015 Coursework towards B.S. in Biology – transferred
University of California, Riverside

Research Experience

- 2021-present Ph.D. Candidate – Anderson Lab, UC Riverside
Aquatic and vector ecology of *Aedes* mosquitoes in cryptic habitats
- 2018-2021 Graduate Student Researcher – Walton Lab, UC Riverside
Ecology of native and invasive mosquito larvae
- 2017 Research Assistant – Evolab, UC Berkeley
Hawaiian Islands biodiversity and biogeography projects
- 2017 Student Researcher – Museum of Vertebrate Zoology, UC Berkeley
Behavioral ecology of great egret and California deer mouse
- 2016-2017 CNR Honors Researcher – Elias Lab, UC Berkeley
Navigation behavior of the Mason Spider *Castianeira teewinoticus*
- 2016-2017 UG Research Assistant – Will Lab, UC Berkeley
Field entomology, trap evaluation, bioblitzes
- 2016 UCEAP Research Intern – Suga Lab, University of Tokyo
Discovery and synthesis of peptides active against delta-atracotoxin
- 2015 UG Research Assistant – Dr. Patina Mendez, UC Berkeley
Databasing and digitization of Caddisfly research
- 2014-2015 CNAS Scholars UG Researcher – Walton Lab, UC Riverside
Trophic effects of *Culex* larvae on autotrophic biomass

Fellowships, Grants, and Awards

- 2019-present Pacific Southwest Center of Excellence in Vector-Borne Disease PI Support
United States Centers for Disease Control and Prevention

2019	IR-4 Environmental Horticulture Research Grant United States Department of Agriculture
2021	Pacific Branch Entomology Games 1 st Place Team Entomological Society of America
2020	Ian and Helen Moore Award in Aquatic Entomology University of California, Riverside
2018-present	Chancellors Distinguished Fellowship University of California, Riverside
2016-2017	College of Natural Resources Honors Research Grant University of California, Berkeley
2015-2016	CNAS Scholars Research Fellowship University of California, Riverside

Publications

Goldmann, A., Nyman, B., Walton WE. Larvicidal treatment of ornamental bromeliads to control invasive *Aedes*. Proceedings and Papers of the Mosquito and Vector Control Association of California 88.

Weary, B. P., Mendez, P. K., Lew, S. E., Nyman, B. L., & Will, K. W. (2019). Performance of ramp and pitfall traps for arthropods and non-target vertebrates in Californian Oak Woodland and Chaparral habitats. *The Pan-Pacific Entomologist*, 95(1), 21-32.

in prep:

Nyman B, Doyle M, Li J, Goldmann A. A season-long study of tank bromeliads as larval mosquito habitat in southern California. Intended for the *Journal of Vector Ecology*.

Nyman B, Goldmann A, Walton WE. Efficacy of growth regulating insecticide treatments on bromeliads for the control of invasive *Aedes* mosquitoes.

Presentations

Sept. 2021	Society for Vector Ecology Annual Meeting. Online. Nyman B. Bromeliads as <i>Aedes</i> habitat and control efficacy evaluation in California. Oral.
Feb. 2021	Pacific Southwest Center of Excellence in Vector-borne Disease Annual Meeting. Online. Nyman B, Goldmann A. Ecology of bromeliads as <i>Aedes</i> larval habitats and evaluation of novel vector control strategies targeting them. Oral.
Oct. 2020	Entomological Society of America National Meeting. Online. Nyman B, Goldmann A, Walton WE. Efficacy of growth regulating insecticide treatments on bromeliads for the control of invasive <i>Aedes</i> mosquitoes. Oral.
Sept. 2020	UC Riverside Department of Entomology Student Seminar Day. Online.

- Nyman B, Goldmann A, Walton WE. Efficacy of growth regulating insecticide treatments on bromeliads for the control of invasive *Aedes* mosquitoes. Poster & Lightning talk.
- Feb. 2020 Pacific SW Center of Excellence in Vector-borne Disease Annual Meeting. Riverside, CA. Goldmann A, Nyman B, Walton WE. Larvicidal treatment of ornamental bromeliads to control invasive *Aedes*. Oral.
- Jan. 2020 Mosquito and Vector Control Association of California Annual Meeting. San Diego, CA. Goldmann A, Nyman B, Walton WE. Larvicidal treatment of ornamental bromeliads to control invasive *Aedes*. Oral.
- Sept. 2019 UC Riverside Department of Entomology Student Seminar Day. Riverside, CA. Nyman B, Walton WE. Trophic dynamics of *Culex* larvae and their role in mediating competition between species. Oral.
- Oct. 2018 Entomological Society of America National Meeting. Vancouver, BC, Canada. Walton WE, Coolidge J, Duguma D, Nyman B. How do mosquito larvae influence microbial communities and ecosystem function across a gradient of nutrient enrichment? Oral.
- May 2017 College of Natural Resources Honors Research Symposium. Berkeley, CA. Nyman B, Rabouin M, Elias D. Mounds on the mind: deconstructing the navigational mechanism of the mason spider *Castianeira teewinoticus*. Oral.
- Aug. 2015 UCR Summer RISE Symposium. Riverside, CA. Nyman B, Walton WE. Tropic effects of larval *Culex* density on Aquatic Ecosystems. Oral.

Teaching

UC Riverside – Teaching Assistant

ENTM100 General Entomology, Prof: Thomas Perring

BIOL005C Introductory Evolution and Ecology, Prof: Michael Fugate

ENTM050 The Evidence for Evolution, Prof: Jessica Purcell

UC Berkeley – Undergraduate Student Instructor

ESPM140 General Entomology, Prof: Patrick O’Grady

ESPM132 Spider Biology, Prof: Rosemarie Gillespie

Science Outreach and Volunteering

Department of Entomology Outreach Program – UC Riverside

Teaching the local community and beyond about entomology in classrooms, at museums, and at various outdoor and indoor events. 200+ Hours

Skype a Scientist – Various schools

Engaging classrooms of all ages around the world about insects, ecology, and science research. 10+ Hours

Riverside Insect Fair – Riverside, CA

All-day event (week-long when virtual) dedicated to entomology in downtown Riverside 10+ Hours

“Little Entomologists” Summer Camp – UC Riverside

Week-long day camp that teaches elementary-age children about science and entomology 20+ Hours

Middle and high school science fair and UCR undergraduate research symposium judging – Riverside, CA

Super Stars Literacy – Oakland, CA

Designing and carrying out science experiments for underserved elementary school students. 50+ Hours

Insect and Spider Identification – Online

Online community outreach through insect/spider groups on websites like facebook.com and reddit.com

Involvement and Mentoring

Entomology Graduate Student Association (EGSA) – UC Riverside

President (2021-2022)

Vice-President (2020-2021)

Treasurer (2019-2020)

Graduate Student Association (GSA) – UC Riverside

Entomology Department Representative (2019-2021)

GSA Events and Allocations Committee (2019-2021)

Entomological Society of America – Student Member (2018-present)

Pacific Southwest Center of Excellence in Vector-Borne Disease – Member (2019-present)

Society for Vector Ecology – Student Member (2020-present)

Mosquito and Vector Control Association of California(2019-present)

Undergraduates Mentored: Nathan Llamas, Gaby San Jose, Kimberly Leiva-Alas, Adrienne Ung

Skills and Proficiencies

Programs: R, Unix, SQL, VisualBasic, ArcGIS, JMP

Languages (ACTFL): Spanish (3), Korean (2), Vietnamese (1)