

Magda Argueta-Guzmán

Education

- 2018-Present **Ph.D. Candidate in Entomology**, *University of California, Riverside*, Primary Advisor: Dr. Quinn McFrederick, Co-advisor: Dr. Marko Spasojevic from EEOB.
- 2015-2017 **Master of Biological Science (Ecology)**, *The National Autonomous Mexico University (Spanish: Universidad Nacional Autónoma de México, UNAM)*, University City, **Summa Cum Laude GPA: 3.9**.
- 2010-2014 **Bachelor of Biology**, *The Autonomous Metropolitan University (Spanish: Universidad Autónoma Metropolitana Xochimilco)*, **Summa Cum Laude GPA: 4**.

Master Thesis

- Title *Flower-bee networks along a disturbance gradient in semi-arid central Mexico.*
Supervisors Dr. Jordan K. Golubov Figueroa, Dr. Zenón Cano-Santana & Dr. Ricardo Ayala Barajas.

Bachelor Thesis

- Title *Floral biology of Zephyranthes carinata HERB (Amaryllidaceae).*
Supervisor Dr. Jordan K. Golubov Figueroa

Scientific products

Published

- Guerra G A, Barrales-Alcalá D, **Argueta-Guzmán M**, Cruz A, Mandujano-Sánchez M C, 'Arevalo-Ramírez J, Brook G. M. & Golubov F J K. 2018. Biomass Allocation, Plantlet Survival, and Chemical Control of the Invasive Chandelier Plant (*Kalanchoe delagoensis*) (Crassulaceae). *Invasive Plant Science and Management* Vol. 11, Issue 1.
- Argueta-Guzmán M**, Barrales-Alcalá D A, Galicia-Pérez A, Golubov F J K & Mandujano-Sánchez M C. 2013. Sistema reproductivo y visitantes florales de *Zephyranthes carinata* HERB (Amaryllidaceae). *Cactaceas y suculentas mexicanas* Vol. 58, Num 4.

Submitted

- Argueta-Guzmán M**, Golubov F J K., Cano-Santana Z & Ayala Barajas R. 2021. The role of seasonality and disturbance in bee-plant interactions in the southern Chihuahuan desert. **Accepted** at *Insect Conservation and Diversity*.
- Maccaro J J, Moreira Salgado J F, Klinger E, **Argueta-Guzmán M**, Ngor L, Stajich J E & McFrederick Q. 2021. Comparative Genomics Reveals that Metabolism Underlies Evolution of Entomopathogenicity in Bee-loving *Ascosphaera* spp. *Fungi In revision* at *Genome Biology and Evolution*.

In prep.

- Argueta-Guzmán M**, West M, Gairsa M P, Allen C W, Cecala J, Gedlinske L, McFrederick Q, Murillo A, Sankovitz M & Wilson Rankin E. 2021. Words matter: how ecologists discuss managed and unmanaged bees and birds. *Intended submission* to *Ecology*.

Invited talks and interviews

- 2021 "From deserts to islands: How studying bees and their ecological interactions can help us to understand more about biodiversity". **Invited Seminar Talk** in the Biology Department from Santa Clara University, CA
- 2021 "How to take action with your passions" **Invited Expert Talk** at the ComSciCon-Michigan in collaboration with Jessica Joy Maccaro.
- 2021 "The Questions Are Infinite for Us A Mexican Scientist's Reflections on Diversity in Nature and Science". **Invited Interview by the National Park Service**. Available at: <https://www.nps.gov/articles/000/infinite-questions.htm>

Science communication, outreach, and committees

- 2021 Expert Reviewer of Science Communication Articles Submitted to the ComSciCon-MI's Write-a-Thon!
- 2020 Founder of Insects4Inclusion in collaboration with Jessica Joy Maccaro. Insects4Inclusion sells multimedia arthropod art and natural history to contribute to the representation of historically excluded groups in Entomology. All profits are donated to the *Advancing Inclusivity in Entomology Scholarship* from the Entomology Department at UCR. Since June 2020, Insects4Inclusion has donated \$ 3,200 to this cause. Simultaneously, Insects4Inclusion uses social media to highlight the research work and personal stories from students and professors that come from historically excluded groups in the society.
- 2020 Social media content creation for Insects4Inclusion. This spans more than 60 natural insect posts, 12 story highlights of historically excluded groups of scientists, and 27 anti-racism education posts.
- 2020 - present Graduate Student Representative of the Faculty Committee of Diversity, Equity and Inclusion in of the Entomology Department at UCR. This committee has created the *Advancing Inclusivity in Entomology Scholarship*, which provides paid research experiences to undergraduates who belong to underrepresented groups in science. The committee has raised \$ 37,000 in donations for this cause since 2020.

Teaching, mentoring, and field experience

- 2021 Scientific Mentor for the RISE and Six Legs Summer Program at UCR
- 2021 Scientific Mentor for the Marc U Star Program at UCR
- 2017 - 2018 Statistics TA for undergraduate classes, The National Autonomous Mexico University, University City.
- 2017 - 2018 Field Summer Technician for *The Ponisio Lab* in the Sky Island Mountains in Arizona and New Mexico, U.S.A.
- 2017 - 2018 Scientific Mentor in the *Adopt a Talent Program* of PAUTA Organization in the National Autonomous Mexico University.
- 2014 Bachelor Assistant Biology Professor, The Autonomous Metropolitan University.
- 2013-2014 Field Technician for Jordan Golubov Lab, The Autonomous Metropolitan University.

Selected Courses and meetings

- 2021 Oral presentation at the 7th meeting of the Regional Mexican Botanic Garden from Cadereyta Queretaro, "La Zona Árida de Querétaro: Un nicho para el desarrollo de ecólogos y entomólogos."
- 2019 Science-telling Boot-camp at Washington DC. Invited by the National Geographic Society.

- 2017 Poster at 6th meeting of Mexican Ecology Society, "Ecological redundancy in bee-plant interactions: Who are the protagonists of this process?", in León, Guanajuato, Mexico.
- 2016 Poster at the Ecological Society of America's (ESA) 101st Meeting, "Flower-bee networks along a disturbance gradient in semi-arid central Mexico", **Fort Lauderdale, Florida, USA.**
- 2016 The Bee Course, American Museum of Natural History, **Portal, Arizona, USA.**
- 2016 Native Bees, Diversity and Floral Interactions Course, Chamela Biological Station, UNAM, Jalisco, Mexico.

Awards & Grants

- 2021 Regional Mexican Botanic Garden Research Competition for the Marble's Prize 1st place 10-Minute Paper Presentation
- 2021 CNAS Scholarship for work on Diversity Equity and Inclusion at UCR
- 2020 Honorable mention for the Zymo - UCR Microbiome Fellowship
- 2019 Travel award by the Entomology department to attend the Entomological Society of America in St. Louis Missouri.
- 2019 Early Career Grant by the National Geographic Society.
- 2018 CONACYT - UC MEXUS fellowship to conduct Ph.D. studies in Entomology at University of California, Riverside.
- 2017 *Summa Cum Laude*, The National Autonomous University of Mexico (UNAM) for excellence in Master's Degree
- 2015 CONACYT, Master's studies Fellowship.
- 2015 *Summa Cum Laude*, The Autonomous Metropolitan Mexican University for excellence in Bachelors in Science.
- 2014 Best undergraduate research award on "Effect evaluation of *Kalanchoe delagoensis* E. & Z. incorporated into the growth substrate of *Phaseolus vulgaris* L.
- 2010-2014 Mexican Government scholarship for academic excellence in Bachelor's studies.

Computational skills

Advanced R LANGUAGE, L^AT_EX, Office
 Basic Unix, Python, Shell

Languages

Spanish **Native speaker**
 English **Full proficiency, 100% conversationally fluent**

Academic Interests

- Community assembly
- Biogeography & Diversity
- Microbial symbiosis
- Pollinators