

Kevin Quinteros, PhD

University of Maryland, College Park | Department of Biology
orcid.org | phylofignatigo.com | github.com | linkedin.com | kquinter@umd.edu

RESEARCH POSITION

Postdoctoral Associate College Park, MD
2024-Present
University of Maryland | Department of Biology

- P.I.: Dr. Carlos Machado

NSF Postdoctoral Research Fellow College Park, MD
2022-2024
University of Maryland | Department of Biology

- P.I.: Dr. Carlos Machado

Graduate Research Assistant Ames, IA
2015-2022
Iowa State University | Department of Ecology, Evolution, and Organismal Biology

- Advisors: Dr. John D. Nason and Dr. Tracy A. Heath

EDUCATION

Iowa State University, Ames, IA 2015-2022
Ph.D., Genetics and Genomics

Iowa State University, Ames, IA 2012-2015
B.S., Animal Ecology and Biology

GRANTS, FELLOWSHIPS AND AWARDS

Research Fellowships

National Science Foundation: Postdoctoral Research Fellowships in Biology 2020
Funding amount: \$138,000

Ford Foundation Dissertation Fellowship 2020
Honorable Mention

Graduate Minority Assistantship Program Fellowship 2016
Funding amount: \$7098

Research Grants

Baker Center Graduate Research Assistantship 2022
Funding amount: \$11,000

Department of Ecology, Evolutionary and Organismal Biology Finch Fund 2020
Funding amount: \$3,000

Department of Ecology, Evolutionary and Organismal Biology Finch Fund 2018
Funding amount: \$2,500

Center For Global & Regional Environmental Research 2017
Funding amount: \$1,400

Professional Development Grants

Iowa State University Professional Development Grant 2019
Funding amount: \$250

Iowa State University Professional Development Grant 2018
Funding amount: \$400

Center For Global & Regional Environmental Research 2018
Funding amount: \$750

Funding amount: \$2,282

Awards

Excellence in Diversity, Equity, and Inclusion

2022

Institution: Iowa State University, Department of Ecology, Evolution, and Organismal Biology

Outstanding ISU Science Bound/College of Agriculture and Life Sciences Alumnus

2022

Institution: Iowa State University, College of Agriculture and Life Sciences

TEACHING EXPERIENCE

Principles of Biology Laboratory II

Spring and Fall 2021

Graduate Teaching Assistant: Graded assignments, assisted in setting up weekly lab materials, and instructed two lab sections. Section size: 20-25 students

Biological Evolution

Fall 2020

Instructor on Record for Online Section: Delivered supplementary lectures to upper-level undergraduate students to enhance their understanding of recorded course material. Modified lecture content, managed the course website, administered exams, and assigned grades for the course. Section size: 40-50 students

Principles of Biology Laboratory I

Fall 2016, 2018, 2019

Graduate Teaching Assistant: Graded assignments, assisted in setting up weekly lab materials, and instructed two lab sections. Section size: 20-25 students

Biological Evolution

Summer 2017

Virtual Instructor for Online Section: modified lecture content, managed the course website, administered exams, and graded assignments. Section size: 30 students

Undergraduate Seminar: Applying to Graduate School

Fall 2016

Instructor on Record: Co-developed a half-semester seminar to guide students through the graduate school application process. Section size: 16 students

PEER-REVIEWED PUBLICATIONS

1. Cordero, Gerardo A., Samantha Stearns, Kevin Quinteros, Chelsea M. Berns, Steven M. Binz, and Fredric Janzen. 2019. "The Postembryonic Transformation of the Shell in Emydine Box Turtles". *Evolution & Development* 21 (6): 297–310. <https://doi.org/10.1111/ede.12307>
2. Cordero, Gerardo A., Kevin Quinteros, and Fredric J. Janzen. 2018. "Delayed Trait Development and the Convergent Evolution of Shell Kinesis in Turtles". *Proceedings of the Royal Society B: Biological Sciences* 285 (1888): 20181585–86. <https://doi.org/10.1098/rspb.2018.1585>
3. Cordero, Gerardo A., Haibo Liu, Kokulapalan Wimalanathan, Rachel Weber, Kevin Quinteros, and Fredric J. Janzen. 2018. "Gene Network Variation and Alternative Paths to Convergent Evolution in Turtles". *Evolution & Development* 20 (5): 172–85. <https://doi.org/10.1111/ede.12264>
4. Cordero, Gerardo Antonio, and Kevin Quinteros. 2015. "Skeletal Remodelling Suggests the Turtle's Shell Is Not an Evolutionary Straitjacket". *Biology Letters* 11 (4): 20150022–23. <https://doi.org/10.1098/rsbl.2015.0022>

In Review

1. Quinteros, Kevin, Finn Piatscheck, Jordan Satler, Tracy Heath, and John Nason. 2024. "Comparative Phylogeography of Mexican Rock Fig (*Ficus Petiolaris*) and Its Fig Wasp Pollinator: Effects of Abiotic Versus Biotic Factors", March. <https://doi.org/10.22541/au.171178184.46423166/v1>

PRESENTATIONS

Research Presentations

PHYLOGEOGRAPHY OF A MEXICAN FIG WASP POLLINATOR: TESTING EFFECTS OF BIOGEOGRAPHY AND VICARIANCE

2018

National Diversity in STEM Conference (SACNAS)

- PHYLOGEOGRAPHY OF A MEXICAN FIG WASP POLLINATOR: TESTING EFFECTS OF BIOGEOGRAPHY AND VICARIANCE** 2018
 Joint Congress on Evolutionary Biology
- CO-EVOLUTION AND MAINTENANCE OF AN OBLIGATE MUTUALISM** 2017
 Smithsonian Tropical Research Institute: Bambi Lecture Series
- PHYLOGENETIC RECONSTRUCTION OF THE PAPER WASP GENUS *Polistes* (HYMENOPTERA: VESPIDAE)** 2016
 National Diversity in STEM Conference (SACNAS)

Poster Presentations

- MULTI-SPECIES FIG WASP COMMUNITIES REVEAL EXTREME DEVIATION FROM RECIPROCAL PARTNER SPECIFICITY** 2023
 The Society of Systematic Biologists Standalone Meeting
- DATING THE DIVERSIFICATION OF THE PAPER WASPS (GENUS *Polistes*) UNDER THE FOSSILIZED BIRTH-DEATH PROCESS** 2016
 Evolution Conference

Broader Impact Presentations

- FROM THE FIELD TO THE LAB: BUILDING AN INCLUSIVE AND IMMERSIVE EXPERIENCE FOR STUDENTS ENTERING BIODIVERSITY SCIENCES** 2022
 Iowa State Conference on Race and Ethnicity, co-representer: T. Heath, M. Moore, T. Gessler, C. Most, A. Toth
- FINDING YOUR S.T.E.M. FAMILIA: LESSONS FROM SACNAS** 2018
 Iowa State Conference on Race and Ethnicity

PROFESSIONAL DEVELOPMENT AND TRAINING

- SACNAS Postdoc Leadership Institute (PLI)** 2023
 SACNAS premier postdoctoral development workshop. Participants receive a customized curriculum, mentoring opportunities and practical skills training to develop into diverse STEM leaders
- Phylogeographic Temporal Analysis (PTA): Model based comparative phylogeography with machine learning** 2023
 Developed skills in comparative phylogeography, focusing on co-distributed species and their shared evolutionary responses to environmental changes. Utilized advanced methods such as Phylogeographic Temporal Analysis (PTA) to analyze genome-scale data, integrating large-scale simulations and machine learning for demographic inference.
- Marine Biological Laboratory Workshop on Molecular Ecology** 2017
 Participated in the prestigious MBL Workshop on Molecular Evolution, gaining advanced training in molecular evolution, evolutionary genomics, and statistical methods. The workshop emphasized hands-on learning and direct interaction with leading scientists in the field.

ACADEMIC SERVICE

Journal/Proposal Reviewer: National Science Foundation, Molecular Phylogenetics and Evolution, Ecology and Evolution, Molecular Biology and Evolution, Evolution Letters

University and Departmental Committees

- Biology Department Diversity, Equity, and Inclusion Committee** 2022
 Develop and organized event programming for the University of Maryland, Biology Department DEI committee

Recruiter Genetics and Genomics (IGG) Graduate Program 2019

Recruiter for Iowa State University Genetics and Genomics (IGG) Graduate Program at the National Diversity in STEM Conference (SACNAS).

5k for DACA/ Latinx Student Leadership Council Scholarship 2019

Fundraised, develop application and managed scholarship application review committee

U.S. LATINO/A STUDIES 25 YEAR ANNIVERSARY SYMPOSIUM 2019

Panel moderator for “Latinos/as in the Sciences” Panel organized by the Iowa State University U.S. Latino/a Studies Program

OUTREACH AND MENTORSHIP

Organizational Outreach

University of Maryland Maryland Day

Tabling and organizing the SACNAS booth, providing outreach to the community and the general public. Shared information on STEM opportunities and the importance of diversity in STEM fields

National Science Foundation Postdoctoral Research Fellowships in Biology Writing Workshop

Head Organizer for the NSF PRFB Writing Workshop, sponsored by the local SACNAS Chapter. Developed a small database of past applications, defined workshop objectives, and coordinated with presenters and panelists to deliver a comprehensive and effective writing workshop for participants.

Society for the Advancement of Chicanos/Hispanics and Native Americans in Science

- Served as a mentor at the National Diversity in STEM Conference (SACNAS) one-on-one mentorship session.
- Review undergraduate travel scholarship applications

The University of Maryland, the student chapter of Society for the Advancement of Chicanos/Hispanics and Native Americans in Science

Served as an executive board member for the SACNAS UMD student chapter, contributing to the organization and management of events and initiatives to support and promote diversity in STEM fields.

Mentorship

Undergraduate Research Mentor

Served as a graduate mentor for undergraduate student Isabella Sitzmann in research related to plant chemical ecology.

Iowa State University Ronald E. McNair Post-Baccalaureate Achievement Program

Served as a graduate mentor for McNair scholars Estefany Argueta and David Ortiz.

SKILLS

Programming Languages: Python,R, Typst, LaTeX

Languages: English, Spanish