

KAYLEE MARIE HASINA ARNOLD

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EDUCATION

PhD	University of Georgia, Athens, GA Ecology, Interdisciplinary Disease Ecology Across Scales Advisor: Nicole Gottdenker, DVM, MS, PhD, Dipl. ACVP	2016-Present
MS	Tulane University Ecology and Evolutionary Biology Advisor: Sunshine Van Bael, PhD	2015-2016
BS	University of Redlands, Biology Minored in Music Advisor: Brian Spitzer, PhD	2009-2013

FELLOWSHIPS

<u>Howard Hughes Medical Institute Gilliam Fellowship, Finalist</u>	2020
<u>Ford Foundation Predoctoral Fellowship, Honorable Mention</u>	2019
<u>Ford Foundation Predoctoral Fellowship, Honorable Mention</u>	2018
<u>ARCS Foundation Fellowship, Finalist</u>	2018
<u>NSF Interdisciplinary Disease Ecology Across Scales Training Fellowship</u> \$68,000 awarded over 3 years	2017-2020
<u>UGA Graduation Recruitment Opportunity Fellowship</u> \$57,447 awarded over 2 years	2016-2020
<u>Ford Foundation Predoctoral Fellowship, Honorable Mention</u>	2017

GRANT SUPPORT

Summer Research Travel Grant for Doctoral Students, Graduate School, University of Georgia \$1100	2020
Travel Grant Award Odum School of Ecology, University of Georgia \$500	2020
Travel Grant Award, Odum School of Ecology, University of Georgia \$500	2019
Small Grant Award, IDEAS, Odum School of Ecology, University of Georgia \$500	2018
Summer Research Travel Grant for Doctoral Students, Graduate School, University of Georgia \$2000	2018
Small Grant Award Odum School of Ecology, University of Georgia \$1000	2017
Innovative and Interdisciplinary Research Grant Award Graduate School, University of Georgia \$1600	2017
Small Grant Award IDEAS, Odum School of Ecology, University of Georgia \$1500	2017
Grant-in-Aid of Research Award Sigma Xi \$1000	2017
Summer Research Travel Grant for Doctoral Students Graduate School, University of Georgia \$1928	2017
Graduate Field Research Award Latin American and Caribbean Studies Institute, University of Georgia \$650	2017

PUBLICATIONS

Journal Publications

1. Richards, R., Willoughby, A., **Arnold, K.M.**, Evans, M., Majewska, A., Suh, D., Schatz, A., Teitelbaum, C., Joy Vaz, J. The relative importance of environmental and host factors for the distribution of a multi-host, environmentally persistent, zoonotic parasite. *Philosophical Transactions B. Submitted 2021.*
2. Kieran, T.J., **Arnold, K.M.**, Thomas, J.C., Varian, C.P., Saldaña, A., Calzada, J.E., Glenn, T.C. and Gottdenker, N.L. Regional biogeography of microbiota composition in the Chagas disease vector *Rhodnius pallescens*. *Parasites & vectors*, 12(1), pp.1-13. **2019**

RESEARCH GROUPS

Vector Behavior in Transmission Ecology 2019-Present
Research Coordination Network (VectorBiTE RCN)

Spatial Mapping Working Group 2017-Present
Center for the Ecology of Infectious Diseases, University of Georgia

TEACHING EXPERIENCE

Lead Instructor, University of Georgia Spring 2021
Tap II

Teaching Assistant, University of Georgia Fall 2019
Topics in Ecology, PhD students

CONFERENCE AND SYMPOSIUM PRESENTATIONS

Arnold, K., Kieran, T., Varian, C., Saldana, A., Calzada, J., Samudio, F., Glenn, T., and Gottdenker, N. The Entomological Society of America. The gut microbial diversity of a Chagas disease vector varies across single and coinfection status throughout central Panama. **Oral Presentation.** Virtual. November 2020. **First place session winner for best student paper competitions*

Arnold, K., Kieran, T., Varian, C., Saldana, A., Calzada, J., Samudio, F., Glenn, T., and Gottdenker, N. The Ecological Society of America. The gut microbial diversity of a Chagas disease vector varies across coinfection status and habitat type throughout central Panama. **Oral Presentation.** Virtual. August 2020.

Arnold, K., Kieran, T., Varian, C., Saldana, A., Calzada, J., Samudio, F., Glenn, T., and Gottdenker, N. American Society of Microbiology. The gut microbial diversity of a Chagas disease vector varies across coinfection status and habitat type throughout central Panama. **Poster Presentation Accepted.** July 2020. (Did not present due to in-person conference cancellation).

Arnold, K., Kieran, T., Varian, C., Saldana, A., Calzada, J., Samudio, F., Glenn, T., and Gottdenker, N. Xavier University of Louisiana College of Pharmacy's Health Disparities

Conference. The gut microbial diversity of a Chagas disease vector varies across habitat type, region, and infection status in central Panama. **Poster Presentation Accepted.** March 2020. (Conference cancelled due to COVID-19).

Arnold, K.M., Gottdenker, N.L. The Entomological Society of America. The gut microbial diversity of a Chagas disease vector varies across habitat type, region, and infection status in central Panama. **Oral presentation.** St. Louis, MO. November 2019. **Second place session winner for best student paper competitions*

Arnold, K.M., Gottdenker, N.L. Arthropod vector microbiota and infectious disease transmission across scales. Center for the Ecology of Infectious Diseases Retreat at University of Georgia. **Oral presentation.** Athens, GA. 2019.

Solomon, K., Tomczyk, N., Cummins, C., LaVere, A., and **Arnold, K.** Freshwater based community engagement at the departmental level: EcoReach at the Odum School of Ecology. Society for Freshwater Science. **Session presentation.** 2019.

Arnold, K., Kieran, T., Varian, C., Saldana, A., Calzada, J., Samudio, F., Glenn, T., and Gottdenker, N. A multi-scale study of the whole-body microbiota of a Chagas disease vector. Ecological Society of America. **Poster Presentation.** New Orleans, LA. 2018.

Arnold, K., Kieran, T., Varian, C., Saldana, A., Calzada, J., Samudio, F., Glenn, T., and Gottdenker, N. A multi-scale study of the whole-body microbiota of a Chagas disease vector. Society for Advancements of Chicanos/Hispanics and Native Americans in Science. **Poster Presentation.** San Antonio, TX. 2018.

Arnold, K., Solomon, K., Adams, K., and Cummins, C. EcoReach: Environmental Outreach for K-12 students. 6th Annual ComSciCon Workshop. **Poster Presentation.** Boston, MA. 2018.

Arnold, K. and Gottdenker, N. A multi-scale study of the gut microbiota of a Chagas disease vector. 24th Annual Graduate Student Symposium at Odum School of Ecology. **Oral Presentation.** Athens, GA. 2018.

Arnold, K. and Gottdenker, N. Characterizing the gut microbial community composition of a Chagas disease vector. 3rd Annual Front Range Computational and Systems Biology Symposium. **Poster Presentation.** Fort Collins, CO. 2017.

Arnold, K., Spitzer, B. Examining the effects of reservoirs on the population structure of the mayfly *Baetis tricaudatus* by analyzing microsatellite DNA. Senior Thesis Defense. **Oral Presentation.** University of Redlands. 2013.

Arnold, K., Spitzer, B. Examining the effects of reservoirs on the population structure of the mayfly *Baetis tricaudatus* by analyzing microsatellite DNA. Southern California Conference

AWARDS

2021 Trailblazing Student Awardee 2021
Ecological Society of America

Student competition for president's prize – First place 2020
Graduate 10-minute paper presentation for Vector-Microbe and Disease Associations, Entomological Society of America, Virtual

Student competition for president's prize – Second place 2019
Graduate 10-minute paper presentation for Molecular and Cellular Biology, Entomological Society of America, St. Louis, Missouri

Graduate Student Award for Advancing Diversity in Ecology, 2018
University of Georgia, Odum School of Ecology

PROFESSIONAL SERVICE

Symposium Co-Organizer November 2020
International Society for Microbial Ecology, Virtual Summit.

Symposium Co-Organizer January 2020
Graduate Student Symposium, Odum School of Ecology, University of Georgia

Workshop Organizer November 2019
Entomological Society for America Conference, ComSciCon Workshop

- A group of graduate students and I designed and organized a modified ComSciCon science communication workshop for the Entomological Society for America Conference in November 2019

PROFESSIONAL TRAINING AND WORKSHOPS

Fellow January 2018-December 2018

Yale Ciencia Academy for Career Development

- A small selective group of graduate students are provided with mentoring, networking and skills development via monthly virtual meetings led by science professionals around the world

Attendee July 2018

ComSciCon

National Science Communication Workshop for Graduate Students

- 3-day workshop held annually in Boston, MA, for a small selective group of graduate students to further develop their communication and networking skills.

JUSTICE, EQUITY, DIVERSITY, AND INCLUSION OUTREACH AND SERVICE

EcoReach, Environmental Education Outreach organization,
University of Georgia

Coordinator	2018 – 2020
Secretary	2017 – 2018
Member	2016 – Present

- During my first year as president, I increased our membership by including faculty, staff, and undergraduates into the organization and I started a two internship positions for undergraduates
- In both 2018-2019 and 2019-2020, EcoReach attended over 30 events around North Georgia, including community events, university-sponsored events, and public-school lessons
- During my final year as coordinator, I worked to increase our membership, worked with more underserved communities in Athens, GA, and increased faculty participation
- As secretary, I managed the social media accounts, and helped plan and organize events

Gender, the Body, and Fieldwork Across Disciplines Symposium, April 2019
University of Georgia

- Co-organized a faculty-student mentoring session at this 2nd annual symposium

MythBusters: Graduate School Edition, February 2019
University of North Georgia

- I was invited by University of North Georgia to give a presentation to their undergraduate students about my research experiences during my undergraduate years, during my gap years, and once I entered graduate school
- I also spoke with the students about my research experiences that motivated me to continue into a career in the sciences

Enhancing Human Diversity in the Pursuit of Research in Ecology, Evolution, and Environmental Science, 2018-2019
University of Georgia

- I served as a co-leader to organize and facilitate a new diversity recruitment weekend for the Odum School of Ecology graduate program. During this weekend, we organized a networking event with potential faculty mentors and organize a panel on applying for external funding such as the NSF-GRFP or Ford Fellowship

Odum School of Ecology's 50/10 Diversity Panel: 2018
Moving Forward with a Stronger, More Diverse and Inclusive Ecology
University of Georgia

- I volunteered as one of the graduate student co-organizers for a diversity panel at the Odum School of Ecology's 50/10 celebration by selecting panelists who have engaged actively with diversity and inclusion issues in Ecology

Diversity Committee in the Odum School of Ecology 2018-2019
University of Georgia

- I served as a liaison between the graduate students and the diversity committee at the Odum School of Ecology by informing the school of inclusion challenges that need to be address as well as advocating for various programs, like a workshop on microaggressions, that the students would like to have hosted at the school

Providing Outreach & Inspiration through Sisterhood and Education (POISE) 2017
Athens, GA 2017

- A semester long outreach mentoring program and curriculum designed by a PhD student in Counseling Psychology
- I was selected as a volunteer facilitator and mentor to work with African-American middle-school aged girls to provide a space for discussions on self-esteem, body-image, and societal perceptions of Black women and girls

Girls in STEM (GiST) at Tulane University
New Orleans

- A bi-annual day-long program at Tulane University which was designed to bring local school-aged girls on campus to visit research laboratories and complete STEM activities with graduate students
- I volunteered as a group leader during my time at Tulane, by leading group 5th graders (2015) and middle schoolers (2016) around various labs on Tulane's main campus to learn about STEM and engage in STEM activities

PREVIOUS WORK AND RESEARCH EXPERIENCE

Research Internship 2015-2016
Tulane University, New Orleans, LA

- Analyzed samples of baldcypress tree (*Taxodium distichum*) roots and soil for next generation sequencing (NGS) to characterize the bacterial and fungal communities across salinity gradient

Fish Technician 2014-2015
Hubbs-SeaWorld Research Institute, Marine Fish Hatchery, Carlsbad, CA

- Monitored the growth rates and health of white seabass (*Atractoscion nobilis*) from larval stage to young juveniles prior to their release for Southern California stock enhancement

Wildlife Disease Laboratory Volunteer 2014-2015

San Diego Zoo Safari Park, Escondido, CA

- Isolated and extracted DNA and RNA from water samples obtained throughout the hoof stock animal exhibits to analyze and calculate the concentrations of specific water-borne pathogens
- Assisted with desert tortoise (*Gopherus agassizii*) tissue trimming to prepare for histological analyses

Intern 2014

Bottlenose Dolphin Research Institute, Sardinia Island (Italy)

- Surveyed resident bottlenose dolphins (*Tursiops truncatus*) at sea to further study their behavioral ecology, including diving rates, population composition, communication, and relationship with a local fish farm in the Mediterranean Sea

Senior Research Thesis, 2 semesters 2012-2013

University of Redlands, Redlands, CA

- Collected and analyzed mayflies (*Baetis tricaudatus*) in the San Bernardino Mountains to determine whether or not reservoirs increase the genetic differentiation between separated populations

PROFESSIONAL AFFILIATIONS

American Society for Microbiology	2020-Present
Entomological Society of America	2019-Present
Ecological Society of America	2018-Present
Sigma Xi	2018-2019
American Association for the Advancement of Science	2018-2019
Society for Advancements of Chicanos/Hispanics and Native Americans in Science	2018-2019

REFERENCES

Nicole Gottdenker, D.V.M, M.S., Ph.D., DACVP, *Associate Professor of Anatomic Pathology at College of Veterinary Medicine, University of Georgia*
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