

Michelle V. Evans

GRADUATE STUDENT · DISEASE ECOLOGY

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Education

Ph.D Integrative Conservation and Ecology

UNIVERSITY OF GEORGIA, ODUM SCHOOL OF ECOLOGY

Athens, GA

2015- present

- *Advisors:* John Drake & Courtney Murdock

B.A. Environmental Studies (Ecology) & African Studies

WASHINGTON UNIVERSITY IN ST. LOUIS

St. Louis, MO

2007-2011

- awarded *magna cum laude* honors
- *Honors Thesis:* The relative strength of top-down and bottom-up trophic dynamics in the context of habitat isolation

Experience

University of California - Santa Cruz

WEST NILE VIRUS RESEARCH TECHNICIAN

Browns Valley, CA

June - Sept. 2014

- Conducted mosquito surveys in wetlands, trapping mosquitoes using CDC light traps
- Identified and sorted mosquito samples for West Nile Virus testing
- Navigated to sites using GPS devices and maps

Peace Corps

AGROFORESTRY ADVISOR

Guinea, West Africa

Nov. 2011 - Feb. 2014

- Planned and implemented water management techniques with a women's gardening cooperative of 2 hectares
- Reforested 11 hectares of degraded land, collaborating with a local NGO and 51 youth volunteers
- Organized and co-presented a biodiversity conference, involving over 65 professors, researchers, government agents, and local stakeholders
- Designed and conducted multiple trainings on various agricultural and natural resource management topics, encompassing over 400 participants

Tyson Research Center, Washington University in St. Louis

UNDERGRADUATE RESEARCH FELLOW, *Supervisor: Dr. Jonathan Chase, Associate Professor*

St. Louis, MO

Sep. 2012 - Feb. 2013

- Applied for and received a competitive research fellowship to design and conduct an independent research project
- Conducted pond surveys throughout Missouri, carrying equipment through forested terrain
- Performed laboratory duties, including identifying and counting aquatic macroinvertebrates and zooplankton and maintaining a species library
- Active member of laboratory meetings planning future research

Departmental Service and Outreach

DEPARTMENTAL SERVICE

2017 **Chair**, Organized ICON Network & Cooperative (OINC)

Athens, GA

2016 **Seminar Representative**, Odum School of Ecology Graduate Student Organization

Athens, GA

2016 **Secretary**, Organized ICON Network & Cooperative (OINC)

Athens, GA

OUTREACH

2016 - **EcoReach**, Volunteer Leader

Athens, GA

2016 - **Experience UGA**, Volunteer Leader

Athens, GA

2017 **STEMZone**, Volunteer Leader

Athens, GA

2016 **Center for Undergraduate Research Opportunities**, Volunteer Convener

Athens, GA

MENTORING

Lindsey Jones

POPULATION BIOLOGY OF INFECTIOUS DISEASES REU PROGRAM

Athens, GA
Summer 2017

Abigail Lecroy

DEPT. OF INFECTIOUS DISEASE UNDERGRADUATE RESEARCHER

Athens, GA
Spring 2017

Nicole Solano

POPULATION BIOLOGY OF INFECTIOUS DISEASES REU PROGRAM

Athens, GA
Summer 2016

Leadership Experience & Honors

AWARDS

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| 2016 | 3rd Place PhD Presentation , Odum School of Ecology Graduate Student Symposium | Athens, GA |
| 2015 | 1st Place Rapid Fire Talk , Odum School of Ecology Graduate Student Symposium | Athens, GA |

GRANTS & FELLOWSHIPS

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| 2017 | \$877.00 , Odum Small Grants | Athens, GA |
| 2016 | \$1,416.00 , Odum Small Grants | Athens, GA |
| 2016 | \$138,000.00 , NSF Graduate Research Fellowship (3 Yrs Funding) | Athens, GA |
| 2015 | \$131,625.00 , UGA Graduate School Presidential Fellowship (5 Yrs Funding) | Athens, GA |
| 2013 | \$198.26 , Small Project Assistance Grant | Guinea, West Africa |
| 2010 | \$4,500.00 , Summer Undergraduate Research Fellowship | St. Louis, MO |
| 2010 | \$1,000.00 , Teagle Foundation ExxonMobil Scholarship | St. Louis, MO |
| 2007 | \$1,000.00 , Teagle Foundation ExxonMobil Scholarship | St. Louis, MO |

Publications

in review

Evans, Michelle V., Justine C. Shiao, Nicole Solano, Melinda A. Brindley, John M. Drake, Courtney C. Murdock. Carry-over effects of larval microclimate on the transmission potential of a mosquito-borne pathogen.

- Evans, Michelle V., Courtney C. Murdock, John M. Drake. Anticipating emerging arboviruses: What comes after Zika?

published

- Murdock, Courtney, Michelle V. Evans, Taylor McClanahan, Kerri Miazgowicz, and Blanka Tesla. 2017. Fine-scale variation in microclimate across an urban landscape changes the capacity of *Aedes albopictus* to vector arboviruses. *PLoS Neglected Tropical Diseases*, doi:10.1371/journal.pntd.0005640.
- Mordecai, Erin, Jeremy Cohen, Michelle V. Evans, Prithvi Gudapati, Leah R. Johnson, Catherine A. Lippi, Kerri Miazgowicz, et al. 2016. Detecting the impact of temperature on transmission of Zika, dengue and chikungunya using mechanistic models. *PLoS Neglected Tropical Diseases*, doi:10.1101/063735.
- Evans, Michelle V., Tad A. Dallas, Barbara A. Han, Courtney C. Murdock, and John M. Drake. 2017. Data-driven identification of potential Zika virus vectors. *eLife* 6: e22053. doi:10.7554/eLife.22053.

Presentations

- **Evans, Michelle V.**, Solano, Nicole, Shiau, Justine, Drake, John, Murdock, Courtney C. October 2017. “Fine-scale microclimate variation across an urban landscape shapes both mosquito population dynamics and arbovirus transmission potential”. Annual Meeting of the Entomological Society of America, Denver, CO.
- **Evans, Michelle V.**, Murdock, Courtney C. October 2017. “Urban microclimate and mosquito dynamics”. Georgia Mosquito Control Association Annual Meeting, Athens, GA.
- **Evans, Michelle V.**, Solano, Nicole, Shiau, Justine, Murdock, Courtney C. August 2017. “Urban microclimate influences dengue dynamics in the invasive mosquito, *Aedes albopictus*”. Annual Meeting of the Ecological Society of America, Portland, OR.
- **Evans, Michelle V.**, Solano, Nicole, Shiau, Justine, Drake, John, Murdock, Courtney C. August 2017. “Urban microclimate and dengue vector competence of the invasive mosquito, *Ae. albopictus*”. VectorBite Research Coordination Network Meeting, London, UK. *Poster*.
- **Evans, Michelle V.** Murdock, Courtney C. January 2017. “Microclimate and mosquito-borne disease dynamics”. Odum School of Ecology, Graduate Student Symposium, Athens, GA.
- **Evans, Michelle V.** Solano, N., Shiau, J., Murdock, Courtney C. November 2016. “Urban microclimate and dengue vector competence of the invasive asian tiger mosquito, *Ae. albopictus*”. Annual Meeting of the American Society of Tropical Medicine and Hygiene. Atlanta, GA. *Poster*.
- **Evans, Michelle V.**, Murdock, Courtney C. October 2016. “Microclimate and mosquitoes in Athens, GA”. Georgia Mosquito Control Association Annual Meeting, Athens, GA.
- **Evans, Michelle V.**, Miazgowiec, K., Tesla, B., Murdock, Courtney C. June 2016. “Microclimate and mosquitoes across an urban gradient”. Ecology and Evolution of Infectious Disease 14th Annual Meeting, Ithaca, NY. *Poster*.
- **Evans, Michelle V.** and Courtney C. Murdock. February 2016. “Urbanization and vector-borne disease”. Symposium for Integrative Conservation, Athens, GA.
- **Evans, Michelle V.** and Courtney C. Murdock. January 2016. “Mosquito dynamics across an urban gradient”. Odum School of Ecology, Graduate Student Symposium, Athens, GA.
- **Evans, Michelle V.**, Woods, Lauren M., Chase, Jon M. October 2010. “The effects of isolation and nutrients on community biomass”. Washington University in St. Louis Undergraduate Research Symposium, St. Louis, MO. *Poster*.
- **Evans, Michelle V.** May 2010. “Fighting bombs with books: an assessment of the dynamite fishing education program in Ushongo, Tanzania”. School for International Training Symposium, Arusha, Tanzania.

Skills

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| Entomology | Adult & larval mosquito surveys. Blood feeding. Adult identification. BSL-2 infections |
| Programming | R, ArcGis, QGis, LaTeX |
| Language | Advanced French, Basic Malinké, Intermediate Swahili |
| Society Membership | Entomological Society of America, Ecological Society of America |