

Michelle V. Evans

GRADUATE STUDENT · DISEASE ECOLOGY

140 E. Green St, Athens, GA, 30602

☎ (703) 725 9580 | ✉ mvevans@uga.edu | 📱 mvevans89 | 🐦 @mv_evans

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

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

Athens, GA

2017 **Peer Instructor**, Data Carpentry for Ecologists

Athens, GA

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

Athens, GA

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

Athens, GA

Outreach & Mentoring

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

2017	Lindsey Jones , Population Biology of Infectious Diseases REU Program	Athens, GA
2017	Abigail Lecroy , Dept. of Infectious Disease Undergraduate Researcher	Athens, GA
2016	Nicole Solano , Population Biology of Infectious Diseases REU Program	Athens, GA

Honors

AWARDS

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

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

Undergraduate Researchers*, Co-lead Authors†

in review

- Kaul, RajReni B.†, [Michelle V. Evans](#)†, Courtney C. Murdock, John M. Drake. Spatio-temporal spillover risk of yellow fever in Brazil.
- [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.

published

4. [Evans, Michelle V.](#), Courtney C. Murdock, John M. Drake. 2018. Anticipating emerging mosquito-borne flaviviruses in the USA: What comes after Zika? *Trends in Parasitology*. In press.
3. 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.
2. 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.

1. [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., RajReni B. Kaul, Courtney C. Murdock, John M. Drake. February 2018. “Predicting spatio-temporal dynamics of yellow fever in Brazil”. Population Biology of Vector-borne Diseases Symposium, Athens, GA. *Poster*.
- Evans, Michelle V., Lindsey Jones, Nicole Solano, John M. Drake, Courtney C. Murdock. February 2018. “Mosquito communities across a city”. Odum School of Ecology Graduate Student Symposium, Athens, GA.
- Evans, Michelle V., Nicole Solano, Justine Shiau, John M. Drake, Courtney C. Murdock. 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. and Courtney C. Murdock. October 2017. “Urban microclimate and mosquito dynamics”. Georgia Mosquito Control Association Annual Meeting, Athens, GA.
- Evans, Michelle V., Nicole Solano, Justine Shiau, Courtney C. Murdock. 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., Nicole Solano, Justine Shiau, John M. Drake, Courtney C. Murdock. 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. and Courtney C. Murdock. January 2017. “Microclimate and mosquito-borne disease dynamics”. Odum School of Ecology, Graduate Student Symposium, Athens, GA.
- Evans, Michelle V. Nicole Solano, Justine Shiau, Courtney C. Murdock. 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. and Courtney C. Murdock. October 2016. “Microclimate and mosquitoes in Athens, GA”. Georgia Mosquito Control Association Annual Meeting, Athens, GA.
- Evans, Michelle V., K. Miazgowiec, B. Tesla, Courtney C. Murdock. 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., Lauren M. Woods, Jon M. Chase. 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

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