

# 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

2018 **Co-Chair**, Odum School of Ecology Graduate Student Symposium

Athens, GA

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

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### OUTREACH

|        |   |            |
|--------|---|------------|
| 2016 - | <b>EcoReach</b> , Volunteer Leader  | Athens, GA |
| 2016 - | <b>Experience UGA</b> , Volunteer Leader                                    | Athens, GA |
| 2017   | <b>STEMZone</b> , Volunteer Leader  | Athens, GA |
| 2016   | <b>Center for Undergraduate Research Opportunities</b> , Volunteer Convener | Athens, GA |

### MENTORING

|      |  |            |
|------|--|------------|
| 2017 | <b>Lindsey Jones</b> , Population Biology of Infectious Diseases REU Program | Athens, GA |
| 2017 | <b>Abigail Lecroy</b> , Dept. of Infectious Disease Undergraduate Researcher | Athens, GA |
| 2016 | <b>Nicole Solano</b> , Population Biology of Infectious Diseases REU Program | Athens, GA |

## Honors

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### AWARDS

|      |   |            |
|------|---|------------|
| 2017 | <b>3rd Place PhD Presentation</b> , Odum School of Ecology Graduate Student Symposium | Athens, GA |
| 2016 | <b>1st Place Rapid Fire Talk</b> , Odum School of Ecology Graduate Student Symposium  | Athens, GA |

### GRANTS & FELLOWSHIPS

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

## Publications

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Undergraduate Researchers\*, Co-lead Authors<sup>†</sup>

*in review*

*published*

6. Kaul, RajReni B.<sup>†</sup>, **Michelle V. Evans**<sup>†</sup>, Courtney C. Murdock, John M. Drake. Spatio-temporal spillover risk of yellow fever in Brazil. *Parasites & Vectors*.
5. **Evans, Michelle V.**, Justine C. Shiau, Nicole Solano\*, Melinda A. Brindley, John M. Drake, Courtney C. Murdock. 2018. Carry-over effects of larval microclimate on the transmission potential of a mosquito-borne pathogen. *Parasites & Vectors*.
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

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- Evans, Michelle V., RajReni B. Kaul, Courtney C. Murdock, John M. Drake. August 2018. “What can predictive mapping tell us about the ecology of vector-borne diseases?”. MPE 2013+ Workshop on Global Change and Vector-borne Diseases: Mapping Emerging Infectious Diseases, Fairfax, VA.
- 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. Miazgowicz, 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

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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                        |