

# Michelle V. Evans

PHD CANDIDATE · DISEASE ECOLOGY

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## Education

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### 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

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### Pivot

RESEARCH INTERN

Madagascar

March - May 2019

### University of California - Santa Cruz

WEST NILE VIRUS RESEARCH TECHNICIAN

Browns Valley, CA

June - Sept. 2014

### Peace Corps

AGROFORESTRY ADVISOR

Guinea, West Africa

Nov. 2011 - Feb. 2014

### Tyson Research Center, Washington University in St. Louis

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

St. Louis, MO

May 2010 - May 2011

## Service

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### OUTREACH

2016 - 18 **EcoReach**, Volunteer

Athens, GA

2016 - 18 **Experience UGA**, Volunteer

Athens, GA

2017 **STEMZone**, Volunteer

Athens, GA

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

Athens, GA

### MENTORING

2017 **Lindsey Jones**, Population Biology of Infectious Diseases REU Program

Athens, GA

2017 **Abigail Lecroy**, Dept. of Infectious Diseases Undergraduate Researcher

Athens, GA

2016 **Nicole Solano**, Population Biology of Infectious Diseases REU Program

Athens, GA

### DEPARTMENTAL LEADERSHIP

2018	<b>Co-Chair</b> , Odum School of Ecology Graduate Student Symposium	Athens, GA
2017	<b>Chair</b> , Organized ICON Network & Cooperative (OINC)	Athens, GA
2017	<b>Peer Instructor</b> , Data Carpentry for Ecologists	Athens, GA
2016	<b>Seminar Representative</b> , Odum School of Ecology Graduate Student Organization	Athens, GA
2016	<b>Secretary</b> , Organized ICON Network & Cooperative (OINC)	Athens, GA

## JOURNAL REFEREEING

Acta Tropica, Communications Biology, EcoHealth, Parasites and Vectors, PLoS One, PLoS Neglected Tropical Diseases

## Honors

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### AWARDS

2019	<b>Graduate Education Advancement Board Fellowship</b> , University of Georgia Graduate School	Athens, GA
2019	<b>Agile Scientist Award</b> , Integrative Conservation Program	Athens, GA
2018	<b>2nd Place PhD Presentation</b> , Odum School of Ecology Graduate Student Symposium	Athens, GA
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

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†

- Michelle V. Evans, Carl W. Hintz\*, Lindsey Jones\*, Justine Shiao, Nicole Solano, John M. Drake, Courtney C. Murdock. 2019. Microclimate and larval habitat density predict adult *Aedes albopictus* abundance in urban areas. *The American Journal of Tropical Medicine and Hygiene*. doi:10.4269/ajtmh.19-0220.
- Kaul, RajReni B.†, Michelle V. Evans†, Courtney C. Murdock, John M. Drake. 2018. Spatio-temporal spillover risk of yellow fever in Brazil. *Parasites & Vectors* 11:488. doi: 10.1186/s13071-018-3063-6.
- Evans, Michelle V., Justine C. Shiao, Nicole Solano\*, Melinda A. Brindley, John M. Drake, Courtney C. Murdock. 2018. Carry-over effects of urban larval environments on the transmission potential of dengue-2 virus. *Parasites & Vectors* 11:426. doi: 10.1186/s13071-018-3013-3.
- 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* 34(7):544. doi:10.1016/j.pt.2018.02.010

3. Murdock, Courtney C., [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* 11(5):e0005640; 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. 2017. Detecting the impact of temperature on transmission of Zika, dengue and chikungunya using mechanistic models. *PLoS Neglected Tropical Diseases* 11(4):e0005568, 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. February 2019. “Embracing the complexity of a city to predict dengue hotspots”. Symposium for Integrative Conservation, Athens, GA.
- Evans, Michelle V. November 2018. “Mapping mosquitoes: Using community mapping and OSM to identify disease hotspots”. State of the Map Asia 2018. Bengaluru, India.
- 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., Nicole Solano, Justine Shiau, Melinda A. Brindley, John M. Drake, Courtney C. Murdock. August 2018 “Urbanization and mosquito-borne disease risk”. MPE 2013+ Workshop on Urban Environmental Sustainability in a Smart and Connected World, Athens, GA. *Poster*.
- 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.