

Michelle V. Evans

PHD CANDIDATE · 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
- Graduate Certificate in Geographic Information Science

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

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

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

2019	Webmaster , Odum School of Ecology Graduate Student Organization	Athens, GA
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

JOURNAL REFEREEING

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

Honors

AWARDS

2019	Graduate Education Advancement Board Fellowship , University of Georgia Graduate School	Athens, GA
2019	Agile Scientist Award , Integrative Conservation Program	Athens, GA
2018	2nd Place PhD Presentation , Odum School of Ecology Graduate Student Symposium	Athens, GA
2017	3rd Place PhD Presentation , Odum School of Ecology Graduate Student Symposium	Athens, GA
2016	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†

- Wimberly, Michael, Justin K. Davis, [Michelle V. Evans](#), Andrea Hess, Philip M. Newberry, Nicole Solano-Asamoah, Courtney C. Murdock. 2020. Land cover affects microclimate and temperature suitability for arbovirus transmission in an urban landscape. *PLoS Neglected Tropical Diseases*. *In press*.
- [Evans, Michelle V.](#), Andres Garchitorena, Rado J.L. Rakotonanahary, John M. Drake, Benjamin Andriamihaja, Elinambinina Rajaonarifara, Calistus N. Ngonghala, Benjamin Roche, Matthew H. Bonds, Julio Rakotonirina. 2020. Reconciling model predictions with low reported cases of COVID-19 in Sub-saharan Africa: Insights from Madagascar. *Global Health Action*. *In press*.
- [Evans, Michelle V.](#), Philip M. Newberry, Courtney C. Murdock. 2020. Carry-over effects of the larval environment in mosquito-borne disease systems. In: J. M. Drake, M. Strand, M. Bonsall (Eds.), *Population Biology of Vector-Borne Diseases*. Oxford University Press. *In press*.

7. Evans, Michelle V., 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.
6. 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.
5. 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.
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* 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

- Evans, Michelle V. January 2020. “Socio-ecological drivers of childhood diarrheal disease in Madagascar”. Odum School of Ecology graduate Student Symposium, Athens, GA.
- Evans, Michelle V. September 2019. “An integrative approach to mosquito-borne disease in urban areas”. Azim Premji University Science Seminar Series, Bengaluru, India.
- 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 Shiao, 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.

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