

Paige B. Miller

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Education

Ph.D Disease Ecology University of Georgia (Athens, GA)	2015 - current
B.A. Math and Biology Gustavus Adolphus College (Saint Peter, MN)	2011 - 2015

Experience

Data Intern Division of Global Migration and Quarantine, Centers for Disease Control and Prevention (Atlanta, Georgia)	April - August 2017
Public Health Research Intern Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention (Atlanta, Georgia)	January - April 2015

Presentations and Publications

Journal Articles

Miller PB, Zalwango S, Galiwango R, Kakaire R, Sekandi J, Steinbaum L, Drake JM, Whalen CC, and N Kiwanuka. Tuberculosis spread in social networks: A cross-sectional study of TB in Kampala, Uganda. *In prep for International Journal of Epidemiology*.

Drake JM, Brett TS, Chen S, Epureanu B, Ferrari M, Marty E, **Miller PB**, O'Dea EB, O'Regan SM, Park AW, and P Rohani. The statistics of epidemic transitions. 2018. *PLoS Computational Biology*.

Brett TS, O'Dea EB, Marty E, **Miller PB**, Park AW, Drake JM, and P Rohani. Anticipating epidemic transitions with imperfect data. 2018. *PLoS Computational Biology*.

Miller PB, O'Dea EB, Rohani P, and JM Drake. Forecasting infectious disease emergence subject to seasonal forcing. 2017. *BMC Theoretical Biology and Medical Modeling*.

Bloch Qazi M, **Miller PB**, Poeschel P, Phan MH, Thayer JL, Medrano CL, and MC Bloch Qazi. Trans-generational effects of maternal and grandmaternal age on offspring viability and performance in *Drosophila melanogaster*. 2017. *Journal of Insect Physiology*.

Mansergh G, **Miller PB**, JH Herbst, MJ Mimiaga, and J Holman. Effects of Brief Messaging about Undiagnosed Infections Detected through HIV Testing among Black and Latino Men who have Sex with Men in the United States. 2015. *Sexually Transmitted Diseases*.

Miller PB, Obrik-Uloho OT, Phan MH, Medrano CL, Renier JS, Thayer JL, Wiessner G, and MC Bloch Qazi. 2014. The Song of the Old Mother: Reproductive Senescence in Female *Drosophila*. *FLY*.

Presentations

Miller PB, Whalen CC, and JM Drake. 2019. Can social network patterns explain male-bias in TB cases? Center for the Ecology of Infectious Diseases Annual Meeting. Athens, GA.

Taube J, **Miller PB** and JM Drake. 2019. Who infected whom? Creating a database of transmission trees for comparative outbreak analyses. Center for the Ecology of Infectious Diseases Annual Meeting. Athens, GA.

Miller PB. 2018. Data visualization in R and producing professional quality graphics. R Ladies Meeting. Athens GA.

Miller PB, Houck K, and JM Drake. 2018. Age-targeted interventions for TB in endemic regions. National Science Foundation Research Training Program Meeting. Arlington, VA.

Miller PB and JM Drake. 2017. Spatial pattern formation of an infectious disease on the verge of elimination. Odum School of Ecology Graduate Student Research Symposium, Athens, GA.

Miller PB and JM Drake. 2016. Forecasting infectious diseases with early warning signals. MIDAS Symposium, Reston, VA.

Miller PB. and JM Drake. 2015. Using the power ratio as an early warning statistic for predicting emerging infectious disease outbreaks. National Science Foundation, Emerging Researchers National Conference, Washington D.C.

Miller PB. and G Mansergh. 2015. Effects of Brief Messaging about Undiagnosed Infections Detected through HIV Testing among Black and Latino Men who have Sex with Men in the United States. Celebration of Creative Inquiry, Gustavus Adolphus College.

Miller PB. and A.W. Park. 2013. The Perfect Storm: Factors that lead to increased transmission and drug resistance emergence of heartworm in the United States. NIMBIOS Undergraduate Research Conference at the interface of Math and Biology, Knoxville, TN.

Grants & Awards

University of Georgia Infectious Disease Ecology Across Scales Small Grant (\$1,000)	2018
ARCS Foundation, Graduate Research Scholarship (Honorable mention)	2017
National Science Foundation Graduate Research Fellowship (\$102,000)	2016
National Science Foundation, Graduate Research Fellowship (Honorable mention)	2015
Gustavus Adolphus College Mansergh Award	2015

Graduate coursework

Population Ecology	Species Distribution Modeling
Probability and Statistics I & II	Multi-scale modeling
Theory of Linear Regression	Bayesian Statistics
Applied Linear Regression	Fundamentals of Disease Ecology I & II
Time Series Analysis	IDEAS Capstone

Service

Journal refereeing: American Journal of Epidemiology, Current Bioinformatics, Proceedings of the National Academy of Sciences (co-reviewer)

Mentoring: Sunishka Thakur (Women in Science Program, 2015-2016), Kennedy Houck (Population Biology of Infectious Diseases REU Program, 2018), Julianna Taube (Population Biology of Infectious Diseases REU Program, 2019)

Outreach: HIV testing volunteer (LiveForward, 2015-current), Treasurer (Odum School of Ecology Graduate Student Organization, 2016-2017), Head coach and board member (Classic City Volleyball, 2017-current.)

Affiliations

Infectious Disease Ecology Across Scales Program, University of Georgia

Center for the Ecology of Infectious Diseases, University of Georgia

Epidemiology in Action Research Group, University of Georgia

R Ladies Group, Athens GA

Modeling Infectious Disease Agent Study (MIDAS) Network

Last updated: November 5, 2019