

# Paige B. Miller

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## Education

<b>Ph.D Disease Ecology</b> University of Georgia (Athens, Georgia)	2015 - current
<b>B.A. Mathematics</b> Gustavus Adolphus College (Saint Peter, Minnesota)	2011 - 2015

## Experience

<b>Data Intern</b> Division of Global Migration and Quarantine, Centers for Disease Control and Prevention (Atlanta, Georgia)	March - August 2017
<b>Public Health Research Intern</b> 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. *Submitted to 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. Improving mathematical models for Tuberculosis: Age-structured models for TB in endemic regions. National Science Foundation Research Training Program Meeting. Arlington, VA.

**Miller PB**, Houck K, and JM Drake. 2018. Improving mathematical models for Tuberculosis: Age-structured models 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 for Undergraduates in Public Health, 2015.

Gustavus Adolphus College Paul Rucker Diversity Scholarship, 2011.

Gustavus Adolphus College Charles Hamrum Award for Biology, 2014.

Gustavus Adolphus College Verna Leona Anderson Scholarship for Women in Leadership, 2014.

Gustavus Adolphus College Marguerite Pooley Hauber Scholarship for Women in Mathematics, 2012.

## 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), 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: October 10, 2019