# Education

2015-Present *PhD*, Epidemiology

**University of Minnesota** Minneapolis, MN

Dissertation topic: *Investigating barriers and facilitators of on-time measles vaccination in Kampala, Uganda*

Research interests: Infectious disease, vector-borne disease, global health, healthcare delivery, emergency medicine, vaccines

August 2015 *Masters of Science*, Emergency Medicine

**University of Cape Town** Cape Town, South Africa

*“Development and usability of a low bandwidth visualization platform for African trauma registry data”*

Degree by dissertation, pass with distinction

May 2014*Masters of Public Health*, Epidemiology of Microbial Disease and Global Health

**Yale School of Public Health** New Haven, CT

Master’s thesis: *“Analysis of the gut-specific microbiome of field captured tsetse flies and its potential relevance to host trypanosome vector competence”*

May 2011*Bachelor of Science*, Major: Microbiology, Minors: Chemistry, Spanish, Honors Program

**University of Rhode Island** Kingston, RI

Honor’s Thesis: *“Students Teaching Students: Changing the URI Honors Program Pedagogy”*

Honors: Dean’s List; Honors Program Excellence in Leadership Award

Exchange at Nelson Mandela Metropolitan University, Port Elizabeth, South Africa

# Research Experience

2020-Present *Minnesota Population Center (MPC) Population Health Trainee* Minneapolis, MN

**MPC Population Health Training Program**

* Engage in disciplinary cross training in theory, methods, and substance of interdisciplinary population health science research
* Conduct interdisciplinary, mentored research in population studies

2017-2018 *Fogarty Global Health Scholar* Kampala, Uganda

**National Institutes of Health, Fogarty International Center**

*“Expectant mothers and medical emergencies: Opportunities for improved outcomes in Uganda”*

* Used qualitative methodology to explore the ways in which maternal mortality is related to the emergency care needs of pregnant and postpartum women in rural and urban settings

2016-Present *Principal Investigator* Kampala, Uganda

**Mulago National Referral Hospital**

“*Characterization of emergency care-seeking patterns for non-traumatic conditions in pregnant women in the East African setting, a pilot study*”

* Conducted a retrospective record review to describe and characterize the emergency care-seeking patterns of pregnant and postpartum women at Mulago National Referral Hospital
* Designed a data collection tool, database, and data analysis plan
* Managed a study team

# Research Experience (Continued)

2015-Present *Research Assistant*

**University of Minnesota**  Minneapolis, MN

Dr. Nicole E. Basta Infectious Disease Epidemiology Group

* Manage and analyze data
* Assist with sample collection logistics
* Assist in preparation of manuscripts for publication

2014 *Field Research Assistant*

**Yale School of Public Health & Columbia University** New Haven, CT

Dr. Maria Diuk-Wasser Eco-epidemiology Lab

* Conducted fieldwork and data collection for study of biodiversity and host associations in transmission of Lyme disease and babesiosis in southern New England.

2013- 2014 *Student Researcher*

**Yale School of Public Health** New Haven, CT

Dr. Serap Aksoy African Trypanosomiasis and Tsetse Lab

* Prepared and analyzed genomic DNA samples for next generation sequencing
* Designed and carried out master’s thesis research on the genetic characterization of the tsetse gut microbiome

2013 *Independent Field Researcher*

**Kenya Agricultural Research Institute** Kikuyu, Kenya

Trypanosomiasis Research Centre

* Collaborated with Kenyan health officials and researchers to optimize research outcomes
* Led independent field and laboratory work for bacterial culture characterization of the tsetse gut microbiome

2009-2011*NSF-REU Researcher*

**University of Pennsylvania** Philadelphia, PA

Dr. P. L. Dutton Biochemistry and Biophysics Lab

* Conducted experiments using solid phase peptide synthesis, HPLC, mass spectrometry, plasmid preparation and transformation
* Investigated medical applications of reactive oxygen species blocking pathways

# Work and Volunteer Experience

2019-Present *Health Emergencies, Data Manager Consultant*

**World Health Organization (WHO)**

* Support the monitoring and evaluation (M&E) programs of the Ebola virus disease (EVD) outbreak response
* Prepare and disseminate public facing information products related to EVD outbreak in the Democratic Republic of the Congo, including the Disease Outbreak News and weekly external AFRO situation report
* Research and identify sources of information related to the EVD outbreak for the drafting of technical materials

# Work and Volunteer Experience (Continued)

2017-2019 Data Analyst

**Doctors Without Borders (MSF)** Geneva, Switzerland

* Designed and created Microsoft Access database for the entry and storage of data on the assessment of the diagnostic capabilities of worldwide MSF facilities
* Created and carried out analysis plan to display diagnostic capabilities of MSF facilities
* Preparing analysis for publication

2014-2015 *Scientific Intern*

**African Federation for Emergency Medicine** Cape Town, South Africa

* Wrote grants and develop models for financing emergency care in Sub-Saharan Africa
* Prepared publications and statements on topics in African emergency care on behalf of AFEM
* Managed and analyzed data from the central trauma registry database
* Trained emergency and acute healthcare professionals on data collection and entry in healthcare facilities in Tanzania, Uganda, Ethiopia, and Botswana.
* Designed and implemented data visualization platform software for trauma registry

2013-2014 *Curriculum guide co-author*

**YSPH Out in Public LGBT Student Affinity Group** New Haven, CT

* + - * Authored the *LGBT Health and Infectious Disease* section of the comprehensive curriculum guide to incorporating LGBT- related health topics and studies in the MPH curriculum at YSPH
      * Contributed to the design and creation of YSPH’s first LGBT Student Affinity Group

2013-2014*Data Analyst*

**World Vision Honduras, Gracias Area Development Program** Gracias, Honduras

* Led program assessment and evaluation of new baseline data collection strategies
* Collected and analyzed disease surveillance data from monitoring program

# Teaching Experience

2018 *REDCap Training Instructor*

**Uganda research Training Collaborative** Kampala, Uganda

REDCap: Research Electronic Data Capture, web-based data collection system

* Designed and taught two training courses on the basics of web-based and application-based use of REDCap for survey design and data collection to medical students and undergraduates from Makerere University

2016 *Teaching assistant*

**University of Minnesota** Minneapolis, MN

Course title: Epidemiology and Control of Infectious Disease

* Graded assignments, coordinated guest speaker schedules, managed course website

2009-2011 *Teaching Assistant*

**University of Rhode Island** Kingston, RI

Course Titles: Honors Tutorial in Biological Sciences: Emerging Infectious Disease in Developing Nations, Introductory Entomology

* Assisted in lesson planning and grading, create and give assignments

# Computer Skills

Proficient in: Stata, SAS, R, MATLAB, Microsoft Access, EndNote

# Grants and Awards

Fall 2018 Hawley Research Award (also awarded in Fall 2016, Spring 2016)

Spring 2017 Fogarty Global Health Fellowship, National Institutes of Health

# Grants and Awards (Continued)

Spring 2017 SPH International Experience Scholarship

2016 Martin-Luepker International Scholarship

2016 Graduate School Summer Research Award

2016 School of Public Health APHA Conference Travel Award

2015-2016 Roberta A. Craig Fellowship in International Public Health

# Memberships and Leadership Positions

2018-Present SPH Global Health Working Group, Member

2018-Present Public Health Review Journal, Reviewer

2015-Present Epidemiology and Community Health PhD Student Group, Member and Co-Leader

2015-Present UMN Infectious Disease Journal Club, Member and Co-leader

2014-Present African Federation for Emergency Medicine, Member

# Presentations and Lectures

October 2018 **Infectious Disease Society of America “IDWeek”** San Francisco, CA

Poster presentation: “Impact of a Herd Immunity Educational Intervention on Parental Concern About Measles”

April 2017 **Consortium of Universities for Global Health (CUGH) Annual Conference** Washington DC

Poster presentation: “Characterization of Emergency Care-seeking Patterns for Nontraumatic Conditions in Pregnant Women in the East African Setting, a Pilot Study”

May 2016 **University of Minnesota Epidemiology of Infectious Disease** Minneapolis, MN

Lecture: “Humans, Insects, and Disease”

April 2016 **The International Conference on Emergency Medicine** Cape Town, South Africa

Oral presentation: "Development and usability testing of a data visualization platform for an African trauma data registry"

October 2015 **American Public Health Association Annual Meeting** Chicago, IL

Oral presentation: "Development and usability testing of a data visualization platform for an African trauma data registry"

June 2014 **Arthropod Genomics Symposium** Urbana-Champagne, IL

Poster presentation: “Analysis of the gut-specific microbiome of field captured tsetse flies and its potential relevance to host trypanosome vector competence”

July 2013 **2nd Joint Annual East African Network for Trypanosomiasis/Human African Trypanosomiasis Platform Annual Meeting** Nairobi, Kenya

Oral presentation: “The Peritrophic Matrix as an Immune Barrier in Tsetse”

# Publications

Logan J, Nederhoff D, Koch B, **Griffith B**, Wolfson J, Awan FA, Basta NE. ‘What have you HEARD about the HERD?’Does education about local influenza vaccination coverage and herd immunity affect willingness to vaccinate?. Vaccine. 2018 Jun 27;36(28):4118-25.

**GriffithBC**, WeissBL, AksoyE, MirejiPO, AumaJE, WamwiriFN, Echodu R, MurillaG, Aksoy S.. Analysis of the gut-specific microbiome from field-captured tsetse flies, and its potential relevance to host trypanosome vector competence. *2017 BMC Microbiology In press*

Weiss BL, Savage AF, **Griffith BC**, Wu Y, Aksoy S. The peritrophic matrix mediates differential infection outcomes in the tsetse fly gut following challenge with commensal, pathogenic and parasitic microbes. *Journal of immunology (Baltimore, Md : 1950)*. 2014;193(2):773-782. doi:10.4049/jimmunol.1400163.