

## Curriculum Vitae

**Matthew Bloomberg, MSPH**

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**EDUCATION**

Expected Dec. 2018

**Tip:** Dates on the  
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**Doctor of Philosophy (Ph.D.)**

Department of International Health, Global Disease Epidemiology and Control  
 Johns Hopkins Bloomberg School of Public Health (JHSPH), Baltimore, MD  
**Dissertation:** Indirect Benefits of Rotavirus Vaccination in Bangladesh (Dr. John Hopkins)

May 2015

**Master of Science in Public Health (MSPH)**

Department of International Health, Global Disease Epidemiology and Control  
 JHSPH, Baltimore, MD

May 2012

**Bachelor of Arts (BA)**

Biology, Hartwick College, Oneonta, NY  
**Senior Thesis:** Impact of Agricultural and Waste Water Treatment Facility Runoff on the Incidence of Antibiotic Resistant Bacteria in Streams (Dr. Paige Health)

**RESEARCH EXPERIENCE**

Aug. 2015 – Present

**Research Assistant**, Center for Immunization Research, Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

- Lead study coordination, protocol development, data management and analysis for Phase I and Phase II studies of new enteric vaccines
- Perform extensive secondary data analysis which has resulted in three manuscripts including a first-author publication currently under review
- Develop and optimize numerous microbiology and immunology techniques
- Played key role in writing small grants resulting in funding of \$250,000 (Dr. John Hopkins)

Nov. 2014 – May 2015

**PHASE Intern**, Maryland Department of Health and Mental Hygiene, Epidemiology and Disease Control Program, Baltimore, MD

- Conducted an assessment of Hepatitis C Virus screening and treatment practices of providers serving individuals with limited resources (Dr. William Penn)

July 2012 – Aug. 2013

**Research Technician**, Partners AIDS Research Center, Massachusetts General Hospital, Harvard Medical School, Boston, MA

- Performed molecular and immunology assays for studies on Hepatitis C virus infection, including mammalian tissue culture, DNA extraction, elispot, lymphoproliferative assays, chromium release assays, intracellular cytokine staining, tetramer/pentamer staining, and multicolor flow cytometry
- Established innovative methodologies for long term culturing of murine regulatory T cells (Dr. Matt George & Dr. Lee Michael)

July 2010 – June 2011

**Lab Manager**, HCV group, Partners AIDS Research Center, Massachusetts General Hospital, Harvard Medical School, Boston, MA

- Oversaw training and supervision of new technicians, management of BL2+ tissue culture room, and ordering of reagents and supplies
- Utilized transgenic mouse model of Hepatitis C infection to investigate regulatory T cell function (Dr. Lee Michael)

M. Bloomberg, pg. 2

**TEACHING EXPERIENCE**

2015 – 2018

**Teaching Assistant**, Department of International Health  
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

**Course title:** Clinical Vaccine Trials and Good Clinical Practice:

- Developed course materials in conjunction with instructors, communicated with students, maintained course website, and graded assignments; 5 terms (Samantha Brown & Julie Smith)

**Course title:** Clinical and Epidemiologic Aspects of Tropical Diseases

- Scheduled guest lecturers, communicated with students, maintained course website, and graded exams and assignments; 3 terms (Dr. Jim Miller & Dr. Cooper Sims)

**Course title:** Introduction to International Health

- Facilitated discussion group sessions, held office hours, and graded assignments; 1 term. (Dr. Pat Sajak)

Jan. 2012 – June 2013

**Tutor**, Study Smart, Boston, MA

- Conducted private, in-home tutoring for SSAT/ISEE, PSAT, and SAT prep and academic subjects

**SCHLORASHIPS**

Sep. 2016-Aug. 2018

Clinical Trials Training Program in Vision Research (Full Tuition), National Eye Institute Training Grant Number EY 07127, National Institutes of Health

May 2014

Clements-Mann Fellowship, Johns Hopkins Bloomberg School of Public Health

**PROFESSIONAL TRAINING**

May 2015

Certificate in Vaccine Science and Policy, Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

December 2014

Clinical Vaccine Trials and Good Clinical Practice (GCP), Johns Hopkins Bloomberg School of Public Health, Center for Immunization Research, Baltimore, MD

**PROFESSIONAL MEMBERSHIPS**

2018 – Present

American Society for Microbiology

2016 – Present

Global Health Council

**PUBLICATIONS**

**Bloomberg M.**, Namaz, L., Kite, R., Elliott, F., Cadwell, M. [2018], Malnutrition levels in children in developing South American nations, *Journal of Vaccine Science*.

**Bloomberg M.**, Rudy, M., James, L., Anthony, C., Waterson, S., Lewis, M. [2017], Comparative evaluation of the antibody in amyotrophic lateral sclerosis (ALS) and enzyme-linked immunospot (ELISPOT) assays for measuring mucosal immune responses to Shigella antigens, *Journal of Vaccine Science* 23:6214–6987.

**PRESENTATIONS**

Namaz, L., Kite, R., Elliott, F., Cadwell, M., **Bloomberg M.** Volunteers receiving live CETC vaccine have reduced severity of illness following H10407 challenge. Presented at the 8<sup>th</sup> International Conference on Vaccines for Enteric Diseases, Cannes, France, 2018.

Rudy, M., **Bloomberg M.**, Fatima, P., Honda, V., Taeroe V., Deering, R., Nuracum, L., Burg, P., Walker, T., Lundgren D., Swenarole, Q. Immune Responses in Volunteers Challenged with Enterotoxigenic *E. coli*. Presented at the 7<sup>th</sup> International Conference on Vaccines for Enteric Diseases, Malaga, Spain, 2017.