**Sarah Elizabeth Vititoe**

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**EDUCATION**

**Columbia University Mailman School of Public Health,** New York, NY 09/2017 – Expected 05/2019

*Master of Public Health (MPH) in Epidemiology, Certificate in Applied Biostatistics*

* Thesis**:** The Role of Gut Microbiota on CpG Island Methylation Phenotype CIMP Colorectal Cancer Tumorigenesis
* Leadership:Healthcare Data Analytics Club at Mailman SPH, Co-President 2018

Relevant Coursework Attached

**University of Florida, College of Liberal Arts and Sciences,** Gainesville, FL 08/2013 - 05/2017

*Bachelor of Science in Microbiology and Cell Sciences, Minors in Public Health and Health Disparities in Society*

* Relevant Coursework: Python for Biologists; Molecular Biology; Genetics; Advanced Microbiology Lab
* Teaching Assistant: Laboratory Methods for Microbiology; Introduction to Microbes (Online)

**PUBLIC HEALTH EXPERIENCE**

**Department of Biostatistics, Columbia SPH,** *Graduate Teaching Asst.,* New York, NY 08/2018 – Present

*Relational Databases and SQL Programming for Research and Data Science, (one section Fall ’18, two sections Spring ’19)*

* Supported instructor in actively answering questions and assisting students with database and SQL coding in-classroom assignment in a flipped classroom setting.
* Graded 1-2 Access, SQL, R, or SAS assignments weekly for 10 students per section in addition to final projects and exams using Canvas.
* Held weekly office hours, communicated with student through e-mail, and assisted with classroom technical support and logistics.

**Center for Infection and Immunity: Chronic Diseases, Columbia SPH,** *Research Asst.,* New York, NY 01/2018 – Present

* Supports PI by generating analyses of clinical, genetic, and metagenomics data from biobanks and patient samples to investigate the gut microbiome as a factor in biomarker-specific breast and colorectal cancers.
* Creates efficiencies by writing data cleanings scripts to perform tasks collaborators had previously done by hand.
* Leverages cross function knowledge in cell biology, epidemiology, and analytics methods to serve as a liaison between content expert, bioinformatician, study coordinator, and laboratory technician.
* Manages complex, data and generates reproducible reports and visualizations with R, R Markdown, and Github.

**AbbVie Inc., R&D, Development Design Center,** *Graduate Intern*, Lake Forrest, IL 05/2018 – 08/2018

* Applied epidemiologic methods to systematically review and critique data sources for sources of invalidity or biases; developed a novel approach for answering research question when original data sources and methods quality standards.
* Curated real world data from recent cancer clinic trials by querying several private and public databases, critiqued data for potential biases, and implemented observational research methods to meet business need.
* Communicated findings to diverse audiences through interactive presentations, posters, and data visualizations.
* Systematically reviewed quantitative and qualitative literature regarding barriers to participating in clinical trials for cancer patients to inform internal consultant teams about current body of literature regarding patient-centric trial design.

**SKILLS & COMMUNITY INVOLVEMENT**

Statistical Programming Languages: SQL/MySQL, R, R Markdown, Github, SAS, Python (basic), Microsoft Access &Excel

Children’s Miracle Network Hospital Dance Marathon:4+ years of involvement in large-scale philanthropies for local children’s hospitals, including Data Strategist, Dir. of Recruitment, and Asst. Dir. of Community Outreach.