Bryan Blette

Curriculum Vitae

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Education

2015–present **Ph.D. in Biostatistics**, *University of North Carolina at Chapel Hill*.
Passed qualifying exams: August 2017
Dissertation advisor: Dr. Michael Hudgens
Expected graduation: December 2020

2015–2018 **M.S. in Biostatistics**, *University of North Carolina at Chapel Hill*.
Master's Paper advisors: Drs. Leah Frerichs and Annie Green-Howard
Title: Changes in School District Physical Activity and Nutrition Policies: A Latent Class Analysis of the School Health Policies and Practices Study

2012–2015 **B.S. in Mathematics and Statistics**, *University of Florida*.
Cumulative GPA: 3.94/4.00, *Cum Laude*

2014 **Study Abroad**, *Florence University of the Arts*, Florence, Italy.
GPA: 4.00/4.00

Publications

1. Collins, M., Zepeda, O., **Blette, B.**, Jadi, R., Perez, R., Liou, G., Montuya-Cruz, M., Harris, E., Becker-Dreps, S., de Silva, A., Bucardo, F., Stringer, E., Surveillance using serology to monitor maternal Zika infection and adverse fetal outcomes (accepted, in press)
2. Gilbert, P., **Blette, B.**, Shepherd, B., Hudgens, M., Post-randomization biomarker effect modification in an HIV vaccine clinical trial (under revision)
3. Neidich, S.D., Fong, Y., Li, S.S., Geraghty, D.E., Williamson, B.D., Young, W.C., Goodman, D., Seaton, K.E., Shen, X., Sawant, S., Zhang, L., ..., **Blette, B.**, ..., Tomaras, G., 2019. Antibody Fc effector functions and IgG3 associate with decreased HIV-1 risk. Journal of Clinical Investigation, 129(11), pp.4838-4849.
4. **Blette, B.S**, Howard, A.G. and Frerichs, L.M., 2019. High School Physical Activity and Nutrition Policy: Summarizing Changes Over Time Using Latent Class Analysis. American journal of preventive medicine, 57(3), pp.e69-e76.
5. Becker-Dreps, S., **Blette, B.**, Briceño, R., Alemán, J., Hudgens, M.G., Moreno, G., Ordoñez, A., Rocha, J., Weber, D.J. and Amaya, E., 2017. Changes in the incidence of pneumonia, bacterial meningitis, and infant mortality 5 years following introduction of the 13-valent pneumococcal conjugate vaccine in a" 3+ 0" schedule. *PloS one*, 12(8), p.e0183348.

Presentations

Oral Presentations

1. **Blette, B.** Structural Joint Modeling of Longitudinal and Survival Data. *ENAR Spring Meeting*. 2020

1. **Blette, B.** Preparing for the next Zika epidemic: Clinical, Epidemiological, and Statistical Challenges. *UNC Prospective Students Day*. 2020

1. **Blette, B.** Structural Joint Modeling of Longitudinal and Survival Data. *UNC Student Seminar*. 2019

2. **Blette, B.**, Gilbert, P., Shepherd, B., Hudgens, M. Post-randomization Biomarker Effect Modification in an HIV Vaccine Clinical Trial. *ENAR Spring Meeting*. 2019

3. **Blette, B.** Modeling Considerations in Data-Driven Attribution. *Google Internship Presentation*. 2018

4. **Blette, B.** Data Analysis Challenges in the Space Life Sciences. *Space Life Sciences Summer Institute Research Conference*. 2015

Posters

1. **Blette, B.** Latent Class Analysis for Classification of Latent Policy Environments: A Case Study. *Joint Statistical Meetings*. 2019

Experience

Research

2015–present **Research Assistant**, *Department of Biostatistics*, UNC - Chapel Hill.
Advisor: Dr. Michael Hudgens
Collaborates on methodological statistics research, primarily involving vaccine evaluation, biomarkers, and HIV/AIDS

2016–present **Research Assistant**, *Department of Family Medicine*, UNC - Chapel Hill.
Advisor: Dr. Sylvia Becker-Dreps
Collaborates and consults on several international projects studying infectious diseases, including Zika virus, pneumococcal disease, and sapovirus

2018 **Quantitative Analyst Intern**, Google.
Hosts: Drs. Amy Richardson and Yang Jiao
Worked as a research intern on data driven attribution for the Ads team, collaborating with data scientists and software engineers to extend a modeling framework in order to improve attribution output

2015 **Research Apprentice**, *National Space Biomedical Research Institute*, Johnson Space Center, NASA.
Advisor: Dr. Alan Feiveson
Worked on many research projects for internal use, including but not limited to developing models to determine maximal terminal velocity for spacecraft while preventing injury risk for astronauts and designing simulations to determine feasibility of maintaining healthy nutrition for astronauts on long-term space missions to Mars given the prevailing space food advancements at that time

Teaching

2020 **Academic Enrichment Program Tutor**, *Intro to Biostatistics / Intro to Epidemiology*, BIOS 600 / EPID 600, UNC - Chapel Hill.
Acted as the official school of public health tutor for introductory courses in biostatistics and epidemiology

2017 **Teaching Assistant**, *Intro to Biostatistics*, BIOS 600, UNC - Chapel Hill.
Assisted professor in writing exams and quizzes, created formats for students to take quizzes online, graded exams, hosted review sessions for exams, and assisted students one-on-one throughout the semester

2015 **Teaching Assistant**, *Intro to Statistics*, STA 2023, University of Florida.
Managed the tutoring room for several hours each week, proctored exams, graded papers and exams, and taught multiple lab classes each week
Scored well above the school, department, and class averages in teacher evaluations at the end of the semester in each of 10 evaluation criteria, as reported by students

Honors and Awards

2020 AcademyHealth HSRProj Research Competition - Finalist, with Natalie Smith and Katherine Miller

2017 National Defense Science and Engineering Graduate Fellowship - Alternate Selection

2016 UW SISMID Travel Award

2015 Anderson Scholar (one of the top students in Liberal Arts and Sciences)

2012–2015 President's Honor Roll (4.00 GPA) – four out of six undergraduate semesters

2012–2015 Dean's List (>3.75 GPA) – achieved every undergraduate semester

2014 Elected to Phi Beta Kappa Society

2014 Elected to Phi Kappa Phi

2013 Elected to Golden Key International Honour Society

2012 University of Florida Presidential Scholar

2012 National Merit Scholar

Leadership Experience

2018–present **Webmaster**, *Biostatistics Student Association*, UNC - Chapel Hill.
- Redesigned the organization's website
- Updated the website and Facebook page with new events and opportunities

2014–2015 **President**, *Phi Beta Lambda*, Business Leadership Organization, University of Florida.
- Redesigned competition strategies and led the chapter members to win the most awards per student in the state as well as most in recorded chapter history
- Conducted meetings and presided over events and conferences
- Managed a team of 10 officers in charge of recruiting new members, organizing guest speakers, and planning socials and community service events
- Previously acted as Vice President (2013 – 2014)

2014–2015 **Webmaster**, *University Math Society*, University of Florida.
- Designed new pages on the organization's website
- Updated the website and Facebook page with upcoming events
- Managed the organization's listserv and facilitated communication with members

Service

2019–present **Council Member**, *ENAR*, Council for Emerging and New Statisticians.

2019–present **Reviewer**, https://publons.com/researcher/1694891/bryan-blette.

2018–present **Student Delegate**, *Graduate Admissions Committee*, Department of Biostatistics, UNC - Chapel Hill.

2019 **Panelist**, *Choosing a Dissertation Advisor Panel*, Department of Biostatistics, UNC - Chapel Hill.

2016 **Panelist**, *Finding an Internship Panel*, Department of Biostatistics, UNC - Chapel Hill.

2013–2015 **Organizer**, *MMATHS*.

- Coordinated the first and second annual MMATHS (Math Majors of America Tournament for High Schoolers) with other math majors
- Supervised events and served as head proctor during individual testing

2012–present **Tutor**, *Various capacities*.

- Tutored undergraduate and graduate students in several areas and rigor levels of mathematics and statistics
- Tutored students at a wide range of universities, including University of Florida, UNC-Chapel Hill, Duke University, and Rice University

Programming Skills

Proficient

- R
- SAS

Used in past (proficient with review)

- Python
- MATLAB
- Stata
- Java