

EDUCATION

University of North Carolina at Chapel Hill Ph.D. in Biostatistics	Chapel Hill, NC Jan 2022–Present
University of North Carolina at Chapel Hill B.S.P.H. in Biostatistics, B.A. in Mathematics, Highest Distinction, GPA: 3.97/4.00	Chapel Hill, NC Aug 2018–Dec 2021

RESEARCH EXPERIENCE

University of North Carolina at Chapel Hill Graduate Research Assistant, Department of Biostatistics, Interference Lab Mentor: Michael Hudgens, Ph.D.	Chapel Hill, NC Aug 2024–Present
University of North Carolina at Chapel Hill Graduate Research Assistant, Department of Biostatistics, Garcia Lab Mentor: Tanya Garcia, Ph.D.	Chapel Hill, NC May 2022–Aug 2024
University of North Carolina at Chapel Hill Graduate Research Assistant, Department of Biostatistics, Center for AIDS Research Mentor: Michael Hudgens, Ph.D.	Chapel Hill, NC Jan 2022–May 2024
National Cancer Institute, National Institutes of Health Research Intern, Biostatistics Branch, Division of Cancer Epidemiology and Genetics Mentor: Jianxin Shi, Ph.D. – Research project: “Testing the interaction between polygenic risk score and an environmental factor using summary statistics of genome-wide association studies”	Bethesda, MD Summer 2021
University of North Carolina at Chapel Hill Research Assistant, Department of Psychiatry Principal Investigator: Susan Girdler, Ph.D.	Chapel Hill, NC Jul 2017–Jul 2020

TEACHING EXPERIENCE

• Instructor at University of North Carolina at Chapel Hill <i>Topics in Real Analysis (BIOS 672)</i>	Fall 2024, Fall 2025
• Instructor at University of North Carolina at Chapel Hill <i>Principles of Statistical Inference (BIOS 600)</i>	Spring 2025
• Teaching Assistant at University of North Carolina at Chapel Hill <i>Introduction to Biostatistics (BIOS 500H)</i>	Fall 2023
• Teaching Assistant at University of North Carolina at Chapel Hill <i>Design of Public Health Studies (BIOS 668)</i>	Spring 2023
• Tutor at University of North Carolina at Chapel Hill <i>Calculus of Functions of One Variable I (MATH 231)</i> <i>Masters Level Probability and Statistical Inference I (BIOS 660)</i>	Fall 2022
• Tutor at Chapel Hill High School <i>Algebra, Geometry, Pre-Calculus, AP Calculus BC</i>	Aug 2020–May 2022

PUBLICATIONS

*: Co-first authorship

- [1] **B.D. Richardson***, B. Blette*, P. Gilbert, and M. Hudgens, “Addressing confounding and continuous exposure measurement error using corrected score functions”, en, *Biometrics*, vol. 81, no. 2, Apr. 2025, Publisher: Oxford University Press (OUP), ISSN: 0006-341X, 1541-0420.
- [2] B. Chi, F. Saidi, L. Graybill, T. Phanga, K. Mollan, K. Amico, K. Freeborn, N. Rosenberg, L. Hill, T. Hamoonga, **B.D. Richardson**, T. Kalua, S. Phiri, and W. Mutale, “A patient-centered, combination intervention to support adherence to HIV pre-exposure prophylaxis during pregnancy and breastfeeding: A randomized pilot study in Malawi”, *JAIDS Journal of Acquired Immune Deficiency Syndromes*, vol. 95, pp. 42–51, 2024.
- [3] L. A. Graybill, B. H. Chi, T. E. Hamoonga, M. Kasaro, J. N. Hodges, **B.D. Richardson**, J. S. Bissram, F. Saidi, K. R. Mollan, K. Freeborn, N. E. Rosenberg, K. A. Powers, and W. Mutale, “Predictors of maternal HIV acquisition during pregnancy and lactation in sub-Saharan Africa: A systematic review and narrative synthesis”, en, *PLOS ONE*, vol. 19, no. 12, G. T. Feyissa, Ed., e0314747, Dec. 2024, ISSN: 1932-6203.
- [4] S. Lee*, **B.D. Richardson***, Y. Ma, K. Marder, and T. Garcia, *Robust and efficient estimation in the presence of a randomly censored covariate*, Version Number: 2, 2024.
- [5] S. C. Lotspeich, M. C. Ashner, J. E. Vazquez, **B.D. Richardson**, K. F. Grosser, B. E. Bodek, and T. P. Garcia, “Making sense of censored covariates: Statistical methods for studies of Huntington’s disease”, en, *Annual Review of Statistics and Its Application*, vol. 11, no. 1, pp. 255–277, Apr. 2024, ISSN: 2326-8298, 2326-831X.
- [6] S. Lotspeich*, **B.D. Richardson***, P. Baldoni, K. Enders, and M. Hudgens, “Quantifying the HIV reservoir with dilution assays and deep viral sequencing”, *Biometrics*, 2024.
- [7] J. J. Peterson, C. A. Lewis, S. D. Burgos, A. Manickam, Y. Xu, A. A. Rowley, G. Clutton, **B.D. Richardson**, F. Zou, J. M. Simon, D. M. Margolis, N. Goonetilleke, and E. P. Browne, “A histone deacetylase network regulates epigenetic reprogramming and viral silencing in HIV-infected cells”, en, *Cell Chemical Biology*, vol. 30, no. 12, 1617–1633.e9, Dec. 2023, ISSN: 24519456.
- [8] J. Shi, ..., **B.D. Richardson**, ..., and Q. Lan, “Genome-wide association study of lung adenocarcinoma in east asia and comparison with a European population”, *Nature Communications*, vol. 14, p. 3043, 2023.

SERVICE

- **MAPS Director** at University of North Carolina at Chapel Hill May 2023–Present
Director of Mentorship and Advice for Prospective Students (MAPS) program
- **MAPS Mentor** at University of North Carolina at Chapel Hill Aug 2022–Present
Mentor for prospective students with MAPS program
- **Session Chair** “Statistical Challenges with Linked and Coarsened Data in Public Health Research” Mar 2024
ENAR Spring Meeting, Baltimore, MD

PRESENTATIONS

- “Addressing Confounding and Continuous Exposure Measurement Error Using Corrected Score Functions” Aug 2025
Invited talk, JSM, Nashville, TN
- “When the Life Sciences Give You Lemons: Making the Most of Coarsened Data in Public Health Research” Feb 2025

Invited Talk, UNC Department of Biostatistics, Chapel Hill, NC

- **“Addressing Confounding and Continuous Exposure Measurement Error Using Corrected Score Functions”** Jan 2025
Seminar, UNC Causal Inference Research Lab, Chapel Hill, NC
- **“Robust and efficient estimation in the presence of a randomly censored covariate”** Nov 2024
Invited talk, UNC Biostatistics 75th Anniversary, Chapel Hill, NC
- **“Quantifying the HIV Reservoir With Dilution Assays and Deep Viral Sequencing”** Oct 2024
Invited talk, UNC BIOS Student Seminar, Chapel Hill, NC
- **“Robust and efficient estimation in the presence of a randomly censored covariate”** Aug 2024
Contributed talk, JSM, Portland, OR
- **“Quantifying the HIV Reservoir With Dilution Assays and Deep Viral Sequencing”** Apr 2024
Invited talk, UNC BIOS/STOR Joint Student Seminar, Chapel Hill, NC
- **“Doubly robust estimation under a randomly censored covariate”** Mar 2024
Contributed talk, ENAR Spring Meeting, Baltimore, MD
- **“Quantifying the HIV Reservoir With Dilution Assays and Deep Viral Sequencing”** Mar 2023
Contributed talk, ENAR Spring Meeting, Nashville, TN
- **“Crash Course: Biostatistics and Epidemiology”** May 2022
Invited lecture, ENABLE HiDAV Boot Camp, University of North Carolina at Chapel Hill

SKILLS

- **Statistical Computing:** R, SAS, SQL
- **Languages:** English (native), Spanish (proficient)

SCHOLARSHIPS AND AWARDS

- T32 Predoctoral Traineeship, National Institute of Environmental Health Sciences 2022–2025