

## EDUCATION

---

<b>University of North Carolina at Chapel Hill</b> Ph.D. in Biostatistics	Chapel Hill, NC Jan 2022–Present
<b>University of North Carolina at Chapel Hill</b> B.S.P.H. in Biostatistics, B.A. in Mathematics	Chapel Hill, NC Aug 2018–Dec 2021

## PROFESSIONAL EXPERIENCE

---

<b>Wake Forest University</b> Assistant Professor, Department of Statistical Sciences	Winston Salem, NC Starting Jul 2026
<b>University of North Carolina at Chapel Hill</b> Graduate Research Assistant, Department of Biostatistics, Interference Lab Mentor: Michael Hudgens, Ph.D.	Chapel Hill, NC Aug 2024–Present
<b>University of North Carolina at Chapel Hill</b> Graduate Research Assistant, Department of Biostatistics, Garcia Lab Mentor: Tanya Garcia, Ph.D.	Chapel Hill, NC May 2022–Aug 2024
<b>University of North Carolina at Chapel Hill</b> Graduate Research Assistant, Department of Biostatistics, Center for AIDS Research Mentor: Michael Hudgens, Ph.D.	Chapel Hill, NC Jan 2022–May 2024
<b>National Cancer Institute, National Institutes of Health</b> 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
<b>University of North Carolina at Chapel Hill</b> Research Assistant, Department of Psychiatry Principal Investigator: Susan Girdler, Ph.D.	Chapel Hill, NC Jul 2017–Jul 2020

## TEACHING EXPERIENCE

---

• <b>Instructor</b> at University of North Carolina at Chapel Hill <i>Topics in Real Analysis (BIOS 672)</i>	Fall 2024, Fall 2025
• <b>Instructor</b> at University of North Carolina at Chapel Hill <i>Principles of Statistical Inference (BIOS 600)</i>	Spring 2025
• <b>Teaching Assistant</b> at University of North Carolina at Chapel Hill <i>Introduction to Biostatistics (BIOS 500H)</i>	Fall 2023
• <b>Teaching Assistant</b> at University of North Carolina at Chapel Hill <i>Design of Public Health Studies (BIOS 668)</i>	Spring 2023
• <b>Tutor</b> at University of North Carolina at Chapel Hill	Fall 2022

## PUBLICATIONS

---

\*: Co-first authorship

- [1] S. Lee\*, **B.D. Richardson\***, Y. Ma, K. S. Marder, and T. P. Garcia, “Sparcc: Semi-parametric robust estimation in a right-censored covariate model”, *Journal of the American Statistical Association*, 2025+.
- [2] **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.
- [3] 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.
- [4] 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.
- [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

---

- **“Social Distancing to Reduce Transmission of Influenza-Like-Illness on College Campuses: UNC Biostatistics Recruiting Event”** Feb 2026  
*Invited talk, Chapel Hill, NC*
- **“Social Distancing to Reduce Transmission of Influenza-Like-Illness on College Campuses: Wake Forest Statistical Sciences Colloquium”** Dec 2025  
*Colloquium, Winston-Salem, NC*
- **“Causal Inference for Infectious Disease Prevention: Bowdoin Undergraduate Colloquium”** Nov 2025  
*Colloquium, Brunswick, ME*
- **“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

---

- Service Award, NC Chapter of the American Statistical Association 2026
- T32 Predoctoral Traineeship, National Institute of Environmental Health Sciences 2022–2025