Brian Richardson

brichson@ad.unc.edu
github.com/brian-d-richardson

Education

University of North Carolina at Chapel Hill — Chapel Hill, NC
Ph.D. in Biostatistics — Jan 2022–Current

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

Research Experience

University of North Carolina at Chapel Hill — Chapel Hill, NC
Graduate Research Assistant, Department of Biostatistics, Center for AIDS Research — Jan 2022–Current
Mentor: Michael Hudgens, Ph.D.

University of North Carolina at Chapel Hill — Chapel Hill, NC
Graduate Research Assistant, Department of Biostatistics, Garcia Lab — May 2022–Current
Mentor: Tanya Garcia, Ph.D.

National Cancer Institute, National Institutes of Health — Bethesda, MD
Research Intern, Biostatistics Branch, Division of Cancer Epidemiology and Genetics — Summer 2021
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"

University of North Carolina at Chapel Hill — Chapel Hill, NC
Research Assistant, Department of Psychiatry — Jul 2017–Jul 2020
Principal Investigator: Susan Girdler, Ph.D.

Teaching Experience

- **Teaching Assistant** at University of North Carolina at Chapel Hill — Aug 2023–Present
  Introduction to Biostatistics (BIOS 500H)
- **Teaching Assistant** at University of North Carolina at Chapel Hill — Jan 2023–May 2023
  Design of Public Health Studies (BIOS 668)
- **Tutor** at University of North Carolina at Chapel Hill — Aug 2022–Dec 2022
  Calculus of Functions of One Variable I (MATH 231)
  Masters Level Probability and Statistical Inference I (BIOS 660)
- **Tutor** at Chapel Hill High School — Aug 2020–May 2022
  Algebra, Geometry, Pre-Calculus, AP Calculus BC

Publications

*: Co-first authorship

[1] S. Lotspeich, M. Ashner, J. Vasquez, **B.D. Richardson**, K. Grosser, B. Bodek, and T. Garcia, "Making sense of censored covariates: Statistical methods for studies of huntington's disease", *Annual Reviews of Statistics and Its Applications*, vol. 11, pp. XX–XX, 2024.

[2] S. Lotspeich*, **B.D. Richardson***, P. Baldoni, K. Enders, and M. Hudgens, "Quantifying the hiv reservoir with dilution assays and deep viral sequencing", *Biometrics*, vol. XX, pp. XX–XX, 2023.

[3] 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

Presentations

- **"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 2022–2024