ABHI JAIN

Boston, MA
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EDUCATION

Boston University *September 2022 - Present*
Ph.D. Biostatistics

- Relevant coursework: Estimation Theory, Hypothesis Testing, Linear Models, Correlated Data Analysis, Nonparametric and Semiparametric Data Modeling, Statistical Analysis of Point Process Data, Causal Inference

Wake Forest University *August 2020 - May 2022*
M.S. Statistics

- Relevant Coursework: Generalized Linear Models, Bayesian Statistics, Statistical Learning, Time Series, Mathematical Biology, Causal Inference, Stochastic Processes
- Master's Thesis: Using Zero-inflated Models to Estimate the Effect of Air Pollution on Self-Reported Mental Health

Davidson College *August 2014 - May 2018*
B.A. Economics; Minor in Applied Mathematics

- Relevant coursework: Multivariable Calculus, Linear Algebra, Econometrics, Probability, Mathematical Statistics, Mathematical Modeling, Game Theory, Computational Economics

RESEARCH EXPERIENCE

Research Assistant, Boston University School of Public Health *June 2022 - Present*

- Research in spatial statistics and health and well-being modeling
- Lead manuscript development; conduct literature reviews; perform data cleaning and data analysis tasks

Research Assistant, Wake Forest Baptist Health *February 2021 - May 2022*

- Conducted research into how healthcare usage has changed with Medicaid expansion
- Constructed datasets used to analyze hospitalization data
- Produced tables and figures to effectively communicate trends present in hospitalization data

Data Analyst, NORC at the University of Chicago *June 2018 - May 2022*

- Served as a contractor for the Economics Unit of the Office of the Investor Advocate at the Securities and Exchange Commission.
- Developed econometric models to analyze investor decision-making and other issues in financial markets
- Cleaned and performed statistical analysis on survey data and financial datasets
- Conducted literature reviews and kept documents, reports, and research materials organized

TEACHING EXPERIENCE

Department of Biostatistics, Boston University

- Applied Causal Inference in Health Research, Teaching Assistant (Fall 2024)

Department of Statistics, Wake Forest University

- Elementary Probability and Statistics, Teaching Assistant (Fall 2020)
- Tutor at Match & Stats Center (Fall 2020)

Department of Economics, Davidson College

- Statistics and Basic Econometrics, Teaching Assistant (Spring 2018)

PUBLICATIONS

Jain A., LaValley M., Dukes K., Lane K., Winter M., Spangler K.R., Cesare N., Wang B., Rickles M., Mohammed S., (2024) Modeling health and well-being measures using ZIP Code spatial neighborhood patterns. *Scientific Reports*.

CONFERENCE PRESENTATIONS

Conferences (invited, contributed, poster)

Modeling well-being using ZIP Code spatial neighborhoods under a Bayesian Beta regression framework. Topic-contributed presentation at 2025 Eastern North American Region Spring Meeting, 2025 March 24, New Orleans, USA.

Modeling well-being using ZIP Code spatial neighborhoods under a Bayesian Beta regression framework. Topic-contributed presentation at Joint Statistical Meetings, 2024 August 8, Portland, USA.

Modeling health and well-being measures by incorporating zip-code spatial neighborhood patterns. Topic-contributed presentation at Joint Statistical Meetings, 2023 August 8, Toronto, Canada.

Modeling health and well-being measures by incorporating zip-code spatial neighborhood patterns: a case study on Massachusetts and Georgia. Poster session presentation at New England Statistics Symposium, 2023 June 6, Boston, MA.

Regression-Based Oversampling for Mutual Fund Owners. Contributed poster presentation at Joint Statistics Meetings, 2020 August 4, Virtual.

General audience

Modeling health and well-being measures by incorporating zip-code spatial neighborhood patterns. Poster presentation at Boston University Population Health Data Science Poster Session, 2023 September 7, Boston, MA.

SERVICE

Boston University Student Chapter of the ASA
Graduation Education Committee, Boston University Department of Biostatistics

SKILLS

Programming Languages and Software

R, Stata, Python, SAS, SQL, Excel, Word, PowerPoint, Visio, Final Cut Pro

Languages

Hindi, French (intermediate)