

Saurabh Bhandari

CONTACT INFORMATION

Email: sbhandari52@uchicago.edu
Phone: 352-219-2040

Website: <https://sbstats.github.io/>

EMPLOYMENT

09/2025–Present **Postdoctoral Scholar** - The University of Chicago, Chicago, Illinois
Mentors: Dr. Yuan Ji and Dr. Brian Chiu

EDUCATION

08/2020–08/2025 **Ph.D., Statistics** - University of Florida, Gainesville, Florida
Advisor: Dr. Michael J. Daniels

08/2016–05/2020 **B.S., Computer Science** - Troy University, Troy, Alabama
Second Major: Mathematics

RESEACH INTERESTS

- **Methodology:** Causal inference with observational data, machine learning, flexible Bayesian modeling, joint modeling of longitudinal and survival data.
- **Applications:** Design and analysis of clinical trials and observational studies, application of novel statistical methodologies to complex problems in oncology and public health.

TEACHING EXPERIENCE

08/2024–12/2024 **University of Florida** Position: Instructor
Class: STA 3024- Introduction to Statistics II

06/2022–08/2022 **University of Florida** Position: Instructor
Class: STA 3024- Introduction to Statistics I

08/2020–06/2022 **University of Florida** Position: Graduate TA

INTERNSHIP EXPERIENCE

05/2023–08/2023 **Regeneron Pharmaceuticals**, Tarrytown, New York
Position: Ph.D. Intern (Biostatistics) Supervisor: Dr. Chenguang Wang

RESEARCH

Publications and Pre-prints

3. Bhandari, S., Daniels, M.J., Siddique J. Causal mediation analysis for longitudinal and survival data in continuous time using Bayesian non-parametric joint models. (arXiv: <https://arxiv.org/abs/2506.20058>)
2. Bhandari, S., Wang, C., Daniels, M.J. Integrating tumor burden with survival outcome for treatment effect evaluation in oncology trials. (arXiv: <https://arxiv.org/abs/2506.07387>)
1. Bhandari, S., Daniels, M.J., Josefsson, M., Lloyd-Jones D.M., Siddique J.A Bayesian semi-parametric approach to causal mediation for longitudinal mediators and time-to-event outcomes. *Biostatistics*(2025). (<https://doi.org/10.1093/biostatistics/kxaf027>)

Manuscripts in preparation

2. Bhandari, S., Daniels, M.J. Causal inference with clustered interference and treatment non-compliance using Bayesian machine learning models.
1. Bhandari, S., Karmakar, B., Daniels, M.J. Causal mediation analysis for longitudinal data in the presence of treatment non-compliance and multiple mediators.

TALKS AND PRESENTATIONS

Invited talks

2. **ICSA Applied Statistics Symposium 2025.** Storrs, CT. Integrating tumor burden with survival outcome for treatment effect evaluation in oncology trials. June 2025.
1. **CMStatistics 2023.** Berlin, Germany. A Bayesian semi-parametric approach to causal mediation for longitudinal mediators and time-to-event outcomes. December 2023.

Topic-contributed talks

1. **JSM 2025.** Nashville, TN. Causal mediation analysis for longitudinal and survival data in continuous time using Bayesian non-parametric joint models. August 2025.

Contributed talks

3. **IBC 2024.** Atlanta, GA. A Bayesian semi-parametric approach to causal mediation for longitudinal mediators and time-to-event outcomes. December 2024.
2. **Mark C. K. Yang Mentor Ceremony Event 2024.** Department of Biostatistics, University of Florida, Gainesville, FL. A Bayesian semi-parametric approach to causal mediation for longitudinal mediators and time-to-event outcomes. November 2024.
1. **JSM 2024.** Portland, OR. A Bayesian semi-parametric approach to causal mediation for longitudinal mediators and time-to-event outcomes. August 2024.

Poster presentation

1. **Best of Statistical Science (BOSS) 2025 Workshop.** Department of Statistics, Texas A&M University, College Station, TX. Causal mediation analysis for longitudinal and survival data in continuous time using Bayesian non-parametric joint models. April 2025.

HONORS AND AWARDS

Jun 2025	College of Liberal Arts and Sciences at the University of Florida <i>Graduate Travel Award</i>
Nov 2024	Department of Biostatistics at the University of Florida <i>Mark C. K. Yang Mentor Ceremony Event 2024 Student Presentation Award</i>
Dec 2023	College of Liberal Arts and Sciences at the University of Florida <i>Graduate Travel Award</i>
May 2020	Troy University Mathematics Department <i>Pi Mu Epsilon Excellence In Leadership Award - 2020</i>

JOURNAL REFEREE

Biometrics

PROFESSIONAL MEMBERSHIPS

07/2024-Present	Member, International Biometrics Society
01/2023-Present	Member, American Statistical Association

October 18, 2025