Saurabh Bhandari

Contact Information

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

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. In Press. *Biostatistics(2025)*. (arXiv: https://arxiv.org/abs/2411.18739)

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

JOURNAL REFEREE

Biometrics

PROFESSIONAL MEMBERSHIPS

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

September 20, 2025