Saurabh Bhandari

Contact Information

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Education

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

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.

Academic Experience

08/2022–Current **University of Florida** Position: Research Assistant
Research areas: Causal mediation, Bayesian semi/non-parametric modeling.

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 (Manuscripts)

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. *Revision submitted to Biostatistics.* (arXiv: https://arxiv.org/abs/2411.18739)

2. Bhandari, S., Wang, C., Daniels, M.J. Integrating tumor burden with survival outcome for treatment effect evaluation in oncology trials. *Submitted.* (arXiv: https://arxiv.org/abs/2506.07387)
3. Bhandari, S., Karmakar, B., Daniels, M.J.Causal mediation analysis for longitudinal data in the presence of treatment non-compliance and multiple mediators. *Expected to submit Summer 2025.*
4. Bhandari, S., Daniels, M.J., Siddique J. Causal mediation analysis for longitudinal and survival data in continuous time using Bayesian non-parametric joint models. *Expected to submit Summer 2025*

Talks and Presentations

Invited talks

1. **ICSA Applied Statistics Symposium 2025**. Storrs, CT. Integrating tumor burden with survival outcome for treatment effect evaluation in oncology trials. June 2025.
2. **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

1. **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.
3. **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*

References

1. **Dr. Michael J. Daniels** (Ph.D. Advisor)
   Professor and Chair
   Department of Statistics
   University of Florida
   Email: daniels@ufl.edu

2. **Dr. Bikram Karmakar** (Teacher/ Co-author)
   Assistant Professor
   Department of Statistics
   University of Florida
   Email: bkarmakar@ufl.edu

3. **Dr. Chenguang Wang** (Internship Supervisor/ Co-author)
   Senior Director
   Biostatistics and Data Management Department
   Regeneron Pharmaceuticals
   Email: chenguang.wang@regeneron.com

July 3, 2025