

Saurabh Bhandari

CONTACT INFORMATION

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EMPLOYMENT

09/2025–Present **Postdoctoral Scholar** - University of Chicago, Chicago, Illinois
Supervisors: 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, Bayesian nonparametric modeling, joint analysis of longitudinal and survival data.
- **Applications:** Biomedical data science, oncology, public health, digital communications.

TEACHING EXPERIENCE

Winter 2026	University of Chicago Class: PHS 31001- Epidemiological Methods (two lectures)	Position: Guest Speaker
Fall 2024	University of Florida Class: STA 3024- Introduction to Statistics II	Position: Instructor
Summer 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

Published/Under peer-review

5. **Bhandari, S.**, Derman, B., Zhang Z., Kowitwanich K., Cui X., Bhatti, P., Jakubowiak, A., He, C., Zhang, W., Ji, Y., Chiu, B. Pooled analysis of Cell-free DNA derived 5-hydroxymethylcytosine signatures and multiple myeloma risk using Bayesian machine learning. *Submitted*.
4. **Bhandari, S.**, Kar, W., Daniels, M.J., Karmakar, B. Causal mediation analysis for longitudinal data in the presence of treatment non-compliance and multiple mediators. *Under review*. (arXiv: <https://arxiv.org/abs/2608.15775>)
3. **Bhandari, S.**, Bhatti, P., Chiu, B., Ji, Y. Semi-parametric Bayesian additive regression trees for risk prediction with high-dimensional epigenetic signatures and low-dimensional covariates. *Under review*. (arXiv: <https://arxiv.org/abs/2605.20143>)
2. **Bhandari, S.**, Daniels, M.J., Siddique J. Causal mediation analysis for longitudinal and survival data in continuous time using Bayesian non-parametric joint models. *Under review*. (arXiv: <https://arxiv.org/abs/2506.20058>)
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

3. **Bhandari, S.**, Daniels, M.J., Wang, C. Integrating tumor burden with survival outcome for treatment effect evaluation in oncology trials. (arXiv: <https://arxiv.org/abs/2506.07387>)
2. **Bhandari, S.**, Li F., Daniels, M.J. Causal inference with clustered interference and treatment non-compliance using Bayesian machine learning models.
1. **Bhandari, S.**, Ji, Y., Chiu, B. Evaluating longitudinal concordance of cfDNA and gDNA derived 5hmC signatures among multiple myeloma patients.

TALKS AND PRESENTATIONS

Invited talks

4. **The 2026 ISBA World Meeting**. Nagoya, Japan. Causal mediation analysis for longitudinal and survival data in continuous time using Bayesian non-parametric joint models. Jun-Jul 2026.
3. **University of Illinois Chicago (UIC) Biostatistics Seminar Series**. Virtual. A Bayesian semi-parametric approach to causal mediation for longitudinal mediators and time-to-event outcomes. Feb 2026.
2. **ICSA Applied Statistics Symposium 2025**. Storrs, CT. Integrating tumor burden with survival outcome for treatment effect evaluation in oncology trials. Jun 2025.
1. **CMStatistics 2023**. Berlin, Germany. A Bayesian semi-parametric approach to causal mediation for longitudinal mediators and time-to-event outcomes. Dec 2023.

Topic-contributed talk

2. **JSM 2026.** Boston, MA. Causal mediation analysis for longitudinal and survival data in continuous time using Bayesian non-parametric joint models. Aug 2026.
1. **JSM 2025.** Nashville, TN. Causal mediation analysis for longitudinal and survival data in continuous time using Bayesian non-parametric joint models. Aug 2025.

Contributed talks

3. **IBC 2024.** Atlanta, GA. A Bayesian semi-parametric approach to causal mediation for longitudinal mediators and time-to-event outcomes. Dec 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. Nov 2024.
1. **JSM 2024.** Portland, OR. A Bayesian semi-parametric approach to causal mediation for longitudinal mediators and time-to-event outcomes. Aug 2024.

Poster presentations

2. **Society of Epidemiologic Research (SER) Annual Meeting 2026.** Phoenix, AZ. Pooled analysis of cell-free DNA derived 5-hydroxymethylcytosine signatures and risk of multiple myeloma using Bayesian machine learning. Jun 2026.
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. Apr 2025.

HONORS AND AWARDS

Jun 2026	International Society for Bayesian Analysis (ISBA) Program Council <i>Junior Travel Award for Attendance at the 2026 ISBA World Meeting in Nagoya, Japan</i>
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 (2), *Statistics in Medicine* (1)

PROFESSIONAL MEMBERSHIPS

04/2026-Present	Member, International Society of Bayesian Analysis
04/2026-Present	Member, Society of Epidemiologic Research
07/2024-Present	Member, International Biometrics Society
01/2023-Present	Member, American Statistical Association

August 21, 2026