Ryan Yee

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Ph.D. Candidate
University of Wisconsin – Madison
Department of Statistics

EDUCATION

University of Wisconsin – Madison — Madison, WI
Ph.D., Statistics, Advisor: Sameer Deshpande — August 2023 - Present
M.S., Statistics, GPA: 3.9 — August 2021 - May 2023

Southern Methodist University — Dallas, TX
B.S., Statistics, GPA: 4.0 — August 2016 - May 2020
B.B.A., Finance, GPA: 4.0 — August 2016 - May 2020

RESEARCH INTERESTS

Bayesian nonparametrics. Bayesian treed regression. Spatial Statistics. Causal Inference. Optimization. Machine learning. Applications in sports.

PRE-PRINTS

Yee, R., Ghosh, S., & Deshpande S.K. (2024+) "Scalable piecewise smoothing with BART." arXiv:2411.07984.

Nguyen, P.H., **Yee, R.**, & Deshpande, S.K. (2024+) "Oblique Bayesian additive regression trees." arXiv:2411.08849.

Brill, R, **Yee, R.**, Deshpande, S.K., & Wyner, A.J. (2024+) "Moving from machine learning to Statistics: The case of expected points in American football." arXiv:2409.04889.

PEER REVIEWED PUBLICATIONS

Yee, R. & Deshpande, S.K. (2023). "Evaluating plate discipline in Major League Baseball with Bayesian Additive Regression Trees." *Journal of Quantitative Analysis in Sports*. DOI:10.1515/jqas-2023-0048.

WORK EXPERIENCE

Project Assistant — Statistical Consulting Group
July 2024 - Present — Madison, WI
Advise researchers at the University of Wisconsin–Madison on statistical problems arising at all stages of the research process. Projects include power analyses for researchers applying for competitive grants, designing experiments for efficient use of resources, and guiding clients on software use for analysis of data.

Investment Banking Analyst — Citibank
August 2020 - February 2021 — New York, NY
Advised on M&A and capital markets transactions for companies in the financials vertical. Built financial models to evaluate the impact of transaction alternatives on clients financials and created presentation materials to communicate findings to executives.

Quantitative Risk Intern — HBK Investments
June 2018 - August 2018 — Dallas, TX
Worked on a variety of projects including analyzing firm recruitment data to identify hiring biases, building a notification system to alert portfolio managers when they held options that could be optimally exercised prior to expiration, and contributing to research on the interactions between volatility and equity risk factors.

SEMINARS

"Extensions to BART: Oblique Rules and Random Fourier Features." Institute for Foundations of Data Science at University of Wisconsin (April 2024).

CONFERENCE TALKS

"Scalable smoothing in high-dimensions with BART." Joint Statistical Meetings at the Oregon Convention Center (August 2024).

"Evaluating plate discipline in Major League Baseball with Bayesian Additive Regression Trees." New England Symposium for Statistics in Sports at Harvard University (September 2023).

HONORS & AWARDS

Honorable Mention for Outstanding Teaching Assistant Award for Undergraduate Gateway Course at the University of Wisconsin–Madison (Academic Year 2021-2022)

Distinguished Finance major at Southern Methodist University (2020)

Delta Sigma Pi scholarship key at Southern Methodist University (2020)

Beta Gamma Sigma inductee at Southern Methodist University (2020)

Robert Stewart Hyer Society Scholar at Southern Methodist University (2020)

Phi Beta Kappa Junior year inductee at Southern Methodist University (2019)

SERVICE

Vice President of Statistics Graduate Student Association at the University of Wisconsin–Madison (2024-Present)

COMPUTER SKILLS

Languages: C++, Python, R, MATLAB, LaTeX.
Software: PyTorch, Stan, Unix, Vi/Vim, Visual Studio, Git, Bloomberg, Excel.