ANG YU

Linkedin: https://www.linkedin.com/in/angyulink/
Email: ang_yu@outlook.com
Phone Number: 650-285-8804

Website: ang-yu.github.io
Twitter: @AngYu_soci
Github: https://github.com/ang-yu

Skills

- Causal Inference, especially in Mediation Analysis, Longitudinal/Panel Data Analysis (incl Difference-in-Differences, Synthetic Control, etc.), Survey Data Analysis, Bayesian Analysis, and Survival Analysis
- Semiparametric Statistics, including the derivation of Double/Debiased Machine Learning estimators for arbitrary functionals and asymptotic analysis of semiparametric estimators
- Software Pacakge Development in R
- Statistical Consulting and Data Analysis in Multidisciplinary Collaboration

Education

University of Wisconsin-Madison
PhD in Sociology (2025, expected); MS in Statistics (2022); MS in Sociology (2021)
Eligible for STEM OPT

Stanford University
MA in East Asian Studies (2019)
Summer Schools: ICPSR Summer Program in Quantitative Methods at University of Michigan, Summer Institute in Computational Social Science at UCLA

Representative Research Experiences

Project: Causal Decomposition of Group Disparities

- Initiated and designed the entire project, proposed a novel research agenda, derived Double Machine Learning estimators based on efficient influence functions, proved theoretical properties of the estimators (asymptotic normality, semiparametric efficiency, and multiple robustness).
- Wrote a paper as the 1st author, which is under Revision and Resubmission at a top statistics journal (The Annals of Applied Statistics).
- Orally presented the paper at multiple conferences, including the Joint Statistical Meeting, the American Causal Inference Conference, and the Interactive Causal Learning Conference.
- Developed an R package and released it on CRAN, which has been downloaded more than 2k times.

Project: Counterfactual Slopes and Applications to Social Stratification

- Initiated and designed the entire research project, proposed a set of novel estimands, derived efficient influence functions and corresponding estimators, conducted empirical data analysis.
- Wrote a paper as the 1st author, under review at a top statistics journal.
- Orally presented the paper at multiple conferences, including the Causal Inference Session of the Annual Meeting of the American Sociological Association.

Multiple Applied Projects in the Social and Medical Sciences

- Involved in research design, methodological development, data analysis, and paper writing in empirical projects in collaboration with coauthors in multiple disciplines and universities.
- Applied a variety of traditional as well as Machine Learning methods on survival analysis, effect modification analysis, and disparity decomposition analysis.
- Coauthored more than ten academic papers, including four 1st-authored papers. One paper is published in a sociology journal, one in a medical journal, and multiple others are currently under review.
- Orally presented the papers at conferences including the Stanford Conference on Computational Sociology, the Annual Meeting of the Population Association of America, the Workshop on Causality in the Social Sciences at the Leibniz Institute for the Social Sciences, and four Research Committee Meetings of the International Sociological Association.