JAKE A. SOLOFF

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ACADEMIC APPOINTMENT

Postdoctoral Scholar, *The University of Chicago* 6/2022 – present
Advisors: Rina Foygel Barber and Rebecca Willett

EDUCATION

PhD in Statistics, *University of California, Berkeley* 8/2016 – 5/2022
Advisors: Adityanand Guntuboyina and Michael I. Jordan

ScB in Mathematics, *Brown University* 9/2012 – 5/2016
Advisors: Richard Evan Schwartz and Erik B. Sudderth

PUBLICATIONS

Soloff, J. A., Barber, R. F., & Willett, R. (2024). Building a stable classifier with the inflated argmax. *Accepted at NeurIPS 2024.* [preprint]

Soloff, J. A., Barber, R. F., & Willett, R. (2024). Stability via resampling: statistical problems beyond the real line. [preprint]

Soloff, J. A., Guntuboyina, A., & Sen, B. (2024). Multivariate, heteroscedastic empirical Bayes via nonparametric maximum likelihood. *Accepted at the Journal of the Royal Statistical Society: Series B.* [preprint]

Soloff, J. A., Barber, R. F., & Willett, R. (2024). Bagging provides assumption-free stability. *Journal of Machine Learning Research.* [journal] [preprint]

Soloff, J. A., Xiang, D., & Fithian, W. (2024). The edge of discovery: Controlling the local false discovery rate at the margin. *Annals of Statistics.* [journal] [preprint]

Bates, S., Jordan, M. I., Sklar, M., & Soloff, J. A. (2023). Incentive-theoretic Bayesian inference for collaborative science. [preprint]

Bates, S., Jordan, M. I., Sklar, M., & Soloff, J. A. (2022). Principal-agent hypothesis testing. [preprint]

Soloff, J. A., Guntuboyina, A., & Jordan, M. I. (2020). Covariance estimation with nonnegative partial correlations. [preprint]

Soloff, J. A., Guntuboyina, A., & Pitman, J. (2019). Distribution-free properties of isotonic regression. *Electronic Journal of Statistics*, 13(2), 3243-3253. [journal] [preprint]

Soloff, J. A., Márquez, R. A., & Friedler, L. M. (2015). Products of geodesic graphs and the geodetic number of products. *Discussiones Mathematicae Graph Theory*, 35(1), 35–42. [journal]

CONFERENCE ABSTRACTS

Shriver, J., Soloff, J. A., & Molen, N. (2014). Delivering the benefits of remotely sensed data and decision support tools to farmers. *American Geophysical Union*, Annual Meeting. [abstract]

SOFTWARE

`npeb`: Python package for nonparametric empirical Bayes methods.

SCHOLARSHIPS AND AWARDS

Eric Lehmann Citation for outstanding dissertation in theoretical statistics	2022
IMS Hannan Graduate Student Travel Award	2022
Bridgewater Fellowship in Data Science	2020
David Blackwell Fund	2019
Outstanding Graduate Student Instructor Award	2018
First place team, Citadel National Data Open Championship	2017
Leonard Chung-Wei Cheng Graduate Student Fund in Statistics	2016

Albert A. Bennett Prize for exceptional accomplishment in mathematics major 2016

Jerome L. Stein Memorial Award for undergraduate excellence in applied math 2016

Phi Beta Kappa, elected junior year 2015

Sidney E. Frank Scholarship 2012 – 2016

Dean's Scholarship, Brown summer session 2011

PROFESSIONAL ACTIVITIES

Invited Talks

[12] University of Michigan Statistics Student Seminar Oct. 2023

[11] Wayne State University Data Science Seminar Oct. 2023

[10] Indian International Statistical Association (IISA) Conference Jun. 2023

[9] Notre Dame Statistics Seminar May 2023

[8] Matthew Stephens Lab, University of Chicago Apr. 2023

[7] Systems, Information, Learning, Optimization (SILO) Seminar, UW Madison [recording] Mar. 2023

[6] University of Bristol Statistics Seminar Nov. 2022

[5] 12th International Conference on Multiple Comparison Procedures Aug. 2022

[4] Discussant, International Seminar on Selective Inference [recording] Jul. 2022

[3] International Seminar on Selective Inference [recording] Mar. 2022

[2] Fourth Annual Berkeley-Stanford Econometrics Jamboree Nov. 2021

[1] Berkeley-Davis joint colloquium Apr. 2021

Referee Service

Annals of Applied Statistics (AoAS); Annals of Statistics (AoS); Journal of the American Statistical Association (JASA); Journal of the Royal Statistical Society-Series B (JRSS-B); Operations Research (OR); Journal of Causal Inference (JCI)

Workshop Organizer

"Algorithmic stability: mathematical foundations for the modern era" at the American Institute of Mathematics

TEACHING EXPERIENCE

Graduate student instructor at UC Berkeley 2017 – 2020

Data, Inference, and Decisions, taught by M. I. Jordan and J. Steinhardt.

Theoretical Statistics II, taught by M. I. Jordan.

Head GSI, Principles and Techniques of Data Science, taught by F. Perez and J. Gonzalez.

Principles and Techniques of Data Science, taught by D. Nolan and J. Gonzalez.

Assistant instructor at RI Department of Corrections 2016

Introductory Geography, taught by S. Bloch.

Teaching assistant at Brown University 2014 – 2015

Curricular Advising Fellow, Crime and the City, taught by S. Bloch.

Recent Applications of Probability and Statistics, taught by S. Geman.

Computational Probability and Statistics, taught by S. Geman.

Crime and the City, taught by S. Bloch.