

JAKE A. SOLOFF

Website: jake-soloff.github.io ♦ Email: soloff@uchicago.edu

ACADEMIC APPOINTMENT

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

PhD in Statistics , <i>University of California, Berkeley</i> Advisors: Adityanand Guntuboyina and Michael I. Jordan	8/2016 – 5/2022
ScB in Mathematics , <i>Brown University</i> Advisors: Richard Evan Schwartz and Erik B. Sudderth	9/2012 – 5/2016

PUBLICATIONS

Soloff, J. A., Barber, R. F., & Willett, R. (2024). Building a stable classifier with the inflated argmax. [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.	