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

RESEARCH INTERESTS

Large-scale inference; Shape constraints; Optimization;
Uncertainty quantification in ML; Game theory & statistics;
High-dimensional statistics; Multiple hypothesis testing.

ACADEMIC PAPERS

[8] J. A. Soloff, R. F. Barber, & R. Willett. Bagging provides assumption-free stability. 2023. [arXiv]

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

[6] D. Xiang, J. A. Soloff, & W. Fithian. A frequentist perspective on the local false discovery rate. 2022.

[5] J. A. Soloff, D. Xiang, & W. Fithian. The edge of discovery: Controlling the local false discovery rate at the margin. 2022. [arXiv]

[4] J. A. Soloff, A. Guntuboyina, & B. Sen. Multivariate, heteroscedastic empirical Bayes via nonparametric maximum likelihood. 2021. [arXiv]

[3] J. A. Soloff, A. Guntuboyina, & M. I. Jordan. Covariance estimation with nonnegative partial correlations. 2020. [arXiv]

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

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

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.

SOFTWARE

`npeb`: Python package on nonparametric maximum likelihood empirical Bayes.

PROFESSIONAL ACTIVITIES

Invited Talks **(since 2021).**

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

[9] Notre Dame Statistics Seminar, May 2023.

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

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

[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, Jul. 2022. [recording]

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

[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)

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.