

Nathaniel Pritchard

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RESEARCH INTERESTS	Random Sketching. Generalized Linear Models. Statistical Computation. High Performance Computing. Optimization. Linear Solvers.
EDUCATION	<div><div>University of Wisconsin -Madison, Ph.D., Statistics Supervisors: Vivak Patel</div><div>Madison, WI August 2018 -</div></div> <div><div>University of North Carolina at Chapel Hill B.S., Statistics and Analytics (Highest Honors) Honors Adviser: Shankar Bhamidi</div><div>Chapel Hill, NC August 2014 - May 2018</div></div>
PRE-PRINTS	Pritchard, N., & Patel, V. (2022). "Residual Tracking and Stopping for Solving Consistent Linear Inverse Problems with Finite Domains." <i>arXiv preprint arXiv:2201.05741</i> .
PUBLICATIONS	Pritchard, N., & Patel, V. (2023). Towards Practical Large-Scale Randomized Iterative Least Squares Solvers through Uncertainty Quantification. <i>SIAM/ASA Journal on Uncertainty Quantification</i> , 11(3), 10.1137/22M1515057. He, M., Glasser, J., Pritchard, N. , Bhamidi, S., & Kaza, N. (2020). Demarcating geographic regions using community detection in commuting networks with significant self-loops. <i>PloS one</i> 15(4), e0230941.
HONORS & AWARDS	<div>Outstanding TA May 2023.</div> <div>Student Research Grant Competition UW - Madison February 2023.</div> <div>Outstanding TA (Honorable Mention) May 2022.</div>
TALKS	<div>March 2023 "Large-scale randomized iterative least squares." SIAM CSE in Amsterdam, Netherlands.</div> <div>January 2023 "Towards practical large-scale least squares solvers with Iterative Right Random Sketching." Argonne National Labs LANS seminar in Chicago, Illinois (Virtual).</div> <div>April 2022 "Residual Tracking and Stopping for Iterative Random Sketching" Copper Mountain Conference on Iterative Methods in Copper Mountain, Colorado (Virtual)</div>
SERVICE	Committee Service: TA Training Redesign (2020), Space Committee (2021), Awards and Outreach Committee (2022). Statistics Graduate Student Association: Outreach Chair (Spring 2018 - Fall 2020), President (Fall 2020 - Spring 2023).