

# Y. Samuel Wang

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CONTACT INFORMATION	5807 S Woodlawn Ave Chicago, IL 60637 swang24@uchicago.edu ysamuelwang.com	
RESEARCH INTERESTS	Graphical models; Causal discovery; Mixed membership models; Variational inference; Empirical likelihood	
ACADEMIC POSITIONS	Post-doctoral Research Professional <i>The University of Chicago; Booth School of Business</i> Supervisor: <a href="#">Mladen Kolar</a>	2018 -
EDUCATION	Ph.D. in Statistics <i>University of Washington</i> Thesis: <i>Linear Structural Equation Models with non-Gaussian Errors</i> Advisor: <a href="#">Mathias Drton</a> Committee members: <a href="#">Thomas Richardson</a> and <a href="#">Emily Fox</a>  B.A. in Applied Math; Economics <i>Rice University</i> Thesis: <i>State Level Economic Volatility: Causes and Effects</i> Magna Cum Laude; Phi Beta Kappa	2012 - 2018      2006 - 2010
PUBLICATIONS	Wang, Y. S. and Drton, M. (2020). High-dimensional causal discovery under non-Gaussianity. <i>Biometrika</i> , 107(1):41–59  Zhao, B., Wang, Y. S., and Kolar, M. (2019). Direct estimation of differential functional graphical models. In <i>Advances in Neural Information Processing Systems 32: Annual Conference on Neural Information Processing Systems 2019, NeurIPS 2019, 8-14 December 2019, Vancouver, BC, Canada</i> , pages 2571–2581  Chen, W., Drton, M., and Wang, Y. S. (2019). On causal discovery with an equal-variance assumption. <i>Biometrika</i> , 106(4):973–980  Drton, M., Fox, C., Wang, Y. S., et al. (2019). Computation of maximum likelihood estimates in cyclic structural equation models. <i>The Annals of Statistics</i> , 47(2):663–690  Chen, Y.-C., Wang, Y. S., and Erosheva, E. A. (2018). On the use of bootstrap with variational inference: Theory, interpretation, and a two-sample test example. <i>The Annals of Applied Statistics</i> , 12(2):846–876  Wang, Y. S., Matsueda, R. L., Erosheva, E. A., et al. (2017). A variational EM method for mixed membership models with multivariate rank data: An analysis of public policy preferences. <i>The Annals of Applied Statistics</i> , 11(3):1452–1480  Wang, Y. S. and Drton, M. (2017). Empirical likelihood for linear structural equation models with dependent errors. <i>Stat</i> , 6(1):434–447	
SUBMITTED PREPRINTS	Wang, Y. S., Lee, C., West, J., Bergstrom, C., Erosheva, E.A. “Gender-based homophily in collaborations across a heterogeneous scholarly landscape” [ <a href="#">arXiv</a> ]  Zhao, B., Wang, Y. S., Kolar, M. “FuDGE: Functional Differential Graph Estimation with fully and discretely observed curves” [ <a href="#">arXiv</a> ]	

TEACHING EXPERIENCE	<b>University of Washington</b> <b>Lead Instructor:</b> STAT 311: <i>Elements of Statistical Methods</i> <b>Teaching Assistant:</b> STAT 220: <i>Principles of Statistical Reasoning</i> ; STAT 221: <i>Statistical Concepts for Social Sciences</i> ; STAT 311: <i>Elements of Statistical Methods</i> ; STAT 421: <i>Applied Statistics and Experimental Design</i> ; STAT 534: <i>Statistical Computing</i> ; STAT 566: <i>Causal Modeling</i> ; STAT 570: <i>Adv Regression Methods for Indep Data</i> ; CSSS 589: <i>Multivariate Data Analysis for the Social Sciences</i>		
PROFESSIONAL SERVICE	UW Statistics Dept Lead TA 2013, 2016 <b>Journal Referee:</b> Annals of Applied Statistics; Annals of Statistics; Bernoulli; Biometrika; Biometrics; Int. J. of Approximate Reasoning; J. of the American Statistical Association; J. of Machine Learning Research <b>Conference Referee:</b> AISTATS; ICML; NeurIPS; UAI		
INDUSTRY WORK EXPERIENCE	<b>Susquehanna International Group</b> 2013 <i>Assistant Trader Intern</i> - Worked on the index/ETF desk; created tools for calculating “robust” beta and bootstrapping portfolio risk  <b>Deloitte</b> 2010 – 2012 <i>Strategy and Operations Consultant</i> - Focused on analytic strategy and supply chain risk assessments with heavy manufacturing, technology hardware, and oil and gas clients - Houston office Business Analyst Action Committee lead		
REFERENCES	<b>Mathias Drton</b> University of Washington Padelford Hall A-317 Seattle, WA, 98195, U.S.A +1-206-543-3871 md5@uw.edu	<b>Elena Erosheva</b> University of Washington Padelford Hall C-14 Seattle, WA, 98195, U.S.A +1-206-685-0166 elena@stat.washington.edu	<b>Thomas Richardson</b> University of Washington Padelford Hall B-313C Seattle, WA, 98195, U.S.A +1-206-685-0166 tsr@stat.washington.edu