

Y. Samuel Wang

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: Mladen Kolar	2018 -
EDUCATION	Ph.D. in Statistics <i>University of Washington</i> Thesis: <i>Linear Structural Equation Models with non-Gaussian Errors</i> Advisor: Mathias Drton Committee members: Thomas Richardson and Emily Fox	2012 - 2018
	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	2006 - 2010
PUBLICATIONS	Wang, Y. S., Drton, M. (2019+) Causal Discovery for High Dimensional DAGs with non-Gaussian Data. <i>Forthcoming in Biometrika</i>	
	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” [arXiv]	
TEACHING EXPERIENCE	University of Washington <i>Lead Instructor</i> : STAT 311: Elements of Statistical Methods	

Teaching Assistant: STAT 220: Principles of Statistical Reasoning; STAT 221: Statistical Concepts for Social Sciences; STAT 311: Elements of Statistical Methods; STAT 421: Applied Statistics and Experimental Design; STAT 534: Statistical Computing; STAT 566: Causal Modeling; STAT 570: Adv Regression Methods for Indep Data; CSSS 589: Multivariate Data Analysis for the Social Sciences

PROFESSIONAL SERVICE UW Statistics Dept Lead TA 2013, 2016
Journal Referee: Annals of Applied Statistics; Annals of Statistics; Biometrika; Biometrics; Int. J. of Approximate Reasoning; J. of Machine Learning Research
Conference Referee: AISTATS; ICML; NeurIPS; UAI

INDUSTRY WORK EXPERIENCE **Susquehanna International Group** 2013
Assistant Trader Intern
- Worked on the index/ETF desk; created tools for calculating “robust” beta and bootstrapping portfolio risk

Deloitte 2010 – 2012
Strategy and Operations Consultant
- 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

Mathias Drton	Elena Erosheva	Thomas Richardson
University of Washington	University of Washington	University of Washington
Padelford Hall A-317	Padelford Hall C-14	Padelford Hall B-313C
Seattle, WA, 98195, U.S.A	Seattle, WA, 98195, U.S.A	Seattle, WA, 98195, U.S.A
+1-206-543-3871	+1-206-685-0166	+1-206-685-0166
md5@uw.edu	elena@stat.washington.edu	tsr@stat.washington.edu