

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 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., 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 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 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	
WORK IN PROGRESS	Wang, Y.S., Drton, M. “Causal Discovery for High Dimensional DAGs with non-Gaussian Data” https://arxiv.org/pdf/1803.11273.pdf Chen, W., Drton, M., Wang, Y.S. “On Causal Discovery with Equal Variance Assumption” https://arxiv.org/pdf/1807.03419.pdf Wang, Y.S., Lee, C., West, J., Bergstrom, C., Erosheva, E.A. “Gender-based homophily in scientific collaborations” Wang, Y.S., Drton, M. “Causal Discovery for non-Gaussian Bow-free Acyclic Path Diagrams” Wang, Y.S., Erosheva, E. “mixedMem: An R Package for Estimation of Mixed Membership Models”	
TEACHING EXPERIENCE	University of Washington	

Lead Instructor: 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
 Referee: Annals of Applied Statistics; Biometrika; Biometrics; ICML; Int. J. of Approximate Reasoning, JMLR, 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 University of Washington Padelford Hall A-317 Seattle, WA, 98195, U.S.A +1-206-543-3871 md5@uw.edu	Elena Erosheva University of Washington Padelford Hall C-14 Seattle, WA, 98195, U.S.A +1-206-685-0166 elena@stat.washington.edu	Thomas Richardson University of Washington Padelford Hall B-313C Seattle, WA, 98195, U.S.A +1-206-685-0166 tsr@stat.washington.edu
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