

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: 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., Drton, M. (2019+) Causal Discovery for High Dimensional DAGs with non-Gaussian Data. <i>Forthcoming in Biometrika</i> B. Zhao, Y. S. Wang, M. Kolar. Direct Estimation of Differential Functional Graphical Model. NeurIPS. Chen, W., Drton, M., and Wang, Y. S. (2019). On causal discovery with an equal-variance assumption. <i>Biometrika</i> . asz049 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 <i>Teaching Assistant</i> : 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

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| PROFESSIONAL SERVICE | UW Statistics Dept Lead TA Referee: Annals of Applied Statistics; Biometrika; Biometrics; ICML; Int. J. of Approximate Reasoning, JMLR, NeurIPS, UAI | 2013, 2016 | |
| INDUSTRY WORK EXPERIENCE | Susquehanna International Group <i>Assistant Trader Intern</i> <ul style="list-style-type: none">- Worked on the index/ETF desk; created tools for calculating “robust” beta and bootstrapping portfolio risk Deloitte <i>Strategy and Operations Consultant</i> <ul style="list-style-type: none">- 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 | 2013 2010 – 2012 | |
| 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 |