

# Y. Samuel Wang

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CONTACT INFORMATION	5807 S Woodlawn Ave Chicago, IL 60637 swang24@uchicago.edu ysamuelwang.com	
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> Magna Cum Laude; Phi Beta Kappa	2012 - 2018       2006 - 2010
PUBLICATIONS	<ol style="list-style-type: none"><li>1) Wang, Y. S. and Drton, M. (2020). High-dimensional causal discovery under non-Gaussianity. <i>Biometrika</i>, 107(1):41–59</li><li>2) 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</li><li>3) Chen, W., Drton, M., and Wang, Y. S. (2019). On causal discovery with an equal-variance assumption. <i>Biometrika</i>, 106(4):973–980</li><li>4) 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</li><li>5) 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</li><li>6) 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</li><li>7) Wang, Y. S. and Drton, M. (2017). Empirical likelihood for linear structural equation models with dependent errors. <i>Stat</i>, 6(1):434–447</li></ol>	
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]  Zhao, B., Wang, Y. S., Kolar, M. “FuDGE: Functional Differential Graph Estimation with fully and discretely observed curves” [arXiv]  Wang, Y. S., Drton, M. “Causal discovery with unobserved confounding and non-Gaussian data” [arXiv]	

TECHNICAL REPORTS	<p>Wang, Y. S., Erosheva, E. A. (2016) “On the relationship between set-based and network-based measures of gender homophily in scholarly publications” [<a href="#">arXiv</a>]</p> <p>Wang, Y. S., Erosheva, E. A. (2015) “Fitting mixed membership models using <code>mixedmem</code>” [<a href="#">CRAN</a>]</p>
TEACHING	<p><b>University of Washington</b></p> <p><u>Lead Instructor</u>: STAT 311: <i>Elements of Statistical Methods</i></p> <p><u>Teaching Assistant</u>: 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></p>
PROFESSIONAL SERVICE	<p>UW Statistics Dept Lead TA 2013, 2016</p> <p><b>Journal Referee</b>: Annals of Applied Statistics; Annals of Statistics; Bernoulli; Biometrika; Biometrics; Electronic Journal of Statistics, International Journal of Approximate Reasoning; Journal of the American Statistical Association; Journal of Machine Learning Research</p> <p><b>Conference Referee</b>: AISTATS; ICML; NeurIPS; UAI</p>
NON-ACADEMIC EXPERIENCE	<p><b>Susquehanna International Group</b> 2013</p> <p><i>Assistant Trader Intern</i></p> <ul style="list-style-type: none"> <li>- Worked on the index/ETF desk; created tools for calculating “robust” beta and bootstrapping portfolio risk</li> </ul> <p><b>Deloitte</b> 2010 – 2012</p> <p><i>Strategy and Operations Consultant</i></p> <ul style="list-style-type: none"> <li>- Focused on analytic strategy and supply chain risk assessments with heavy manufacturing, technology hardware, and oil and gas clients</li> <li>- Houston office Business Analyst Action Committee lead</li> </ul>