

Jiasen Yang

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RESEARCH INTERESTS	Machine learning, point processes, statistical network analysis, Stein's method, kernel and nonparametric methods, Bayesian posterior inference, randomized sketching algorithms
EDUCATION	<p>Purdue University</p> <p>Ph.D., Statistics (GPA: 3.94/4.0) 2013 – 2019 (Expected)</p> <p>M.S., Statistics and Computer Science (GPA: 4.0/4.0) 2013 – 2015</p> <p>University of Science and Technology of China</p> <p>B.S., Statistics (Special Class for the Gifted Young) 2009 – 2013</p>
PROFESSIONAL EXPERIENCE	<p>Research Assistant Aug. 2015 – Present <i>Department of Computer Science, Purdue University</i> Advisor: Prof. Jennifer Neville</p> <ul style="list-style-type: none">• Developed a nonparametric goodness-of-fit test for discrete distributions with intractable normalization constants using Stein's method and reproducing kernel Hilbert spaces.• Proposed latent space models for dynamic network data based on Poisson and Hawkes processes to capture homophily and reciprocity with network embeddings.• Developed estimation methods with statistical guarantees for learning relational models from partial crawls of large-scale networks. <p>Quantitative Analyst Intern May – Aug. 2016 <i>Google, Mountain View</i> Supervisors: Dr. Shuchao Bi and Dr. Meeyoung Park</p> <ul style="list-style-type: none">• Performed analysis of generalized linear mixed-effects models for display advertising. <p>Data Science Research Intern May – Aug. 2015 <i>The Nielsen Company, Chicago</i> Supervisors: Dr. Ludo Daemen and Dr. Brett Baden</p> <ul style="list-style-type: none">• Developed statistical models and visualization tools for sales time series data. <p>Instructor & Teaching Assistant Aug. 2013 – May 2015 <i>Department of Statistics, Purdue University</i></p> <ul style="list-style-type: none">• Delivered lectures; prepared homeworks and exams for undergraduate statistics courses.
REFEREED PUBLICATIONS	<p>Jiasen Yang, Qiang Liu, Vinayak Rao, and Jennifer Neville. Goodness-of-fit testing for discrete distributions via Stein discrepancy. In <i>Proceedings of the 35th International Conference on Machine Learning (ICML)</i>, 2018.</p> <p>Agniva Chowdhury, Jiasen Yang, and Petros Drineas. An iterative, sketching-based framework for ridge regression. In <i>Proceedings of the 35th International Conference on Machine Learning (ICML)</i>, 2018.</p> <p>Jiasen Yang, Vinayak Rao, and Jennifer Neville. Decoupling homophily and reciprocity with latent space network models. In <i>Proceedings of the 33rd Conference on Uncertainty in Artificial Intelligence (UAI)</i>, 2017. (Plenary presentation)</p> <p>Jiasen Yang, Bruno Ribeiro, and Jennifer Neville. Stochastic gradient descent for relational logistic regression via partial network crawls. In <i>Proceedings of the 7th International Workshop on Statistical Relational AI (StarAI)</i>, 2017. (Spotlight presentation)</p> <p>Jiasen Yang, Bruno Ribeiro, and Jennifer Neville. Should we be confident in peer effects estimated from partial crawls of social networks? In <i>Proceedings of the 11th International AAAI Conference on Web and Social Media (ICWSM)</i>, 2017.</p>

MANUSCRIPTS UNDER REVIEW	<p>Agniva Chowdhury, Jiasen Yang, and Petros Drineas. Randomized iterative algorithms for Fisher discriminant analysis. Preprint at arXiv:1809.03045, 2018.</p> <p>Agniva Chowdhury,* Jiasen Yang,* and Petros Drineas. Structural conditions for projection-cost preservation via randomized matrix multiplication. Preprint at arXiv:1705.10102, 2017. (* <i>Equal contribution.</i>)</p>		
HONORS AND AWARDS	<p>Fellowships and awards:</p> <ul style="list-style-type: none"> • Bilsland Dissertation Fellowship Purdue University 2018 • Outstanding Bachelor's Thesis (Top 5%) Univ. Sci. & Tech. China 2013 <p>Travel awards:</p> <ul style="list-style-type: none"> • International Conference on Machine Learning Stockholm, Sweden 2018 • Conference on Uncertainty in Artificial Intelligence Sydney, Australia 2017 • International AAAI Conference on Web and Social Media Montreal, Canada 2017 • NSF-CBMS Conference on Topological Data Analysis Austin, TX 2016 • Amazon Graduate Research Symposium Seattle, WA 2015 		
PRESENTATIONS	<p>Oral presentations:</p> <ul style="list-style-type: none"> • 35th International Conference on Machine Learning (ICML) Jul. 2018 <i>Goodness-of-fit testing for discrete distributions via Stein discrepancy.</i> • 33rd Conference on Uncertainty in Artificial Intelligence (UAI) Aug. 2017 <i>Decoupling homophily and reciprocity with latent space network models.</i> • 7th International Workshop on Statistical Relational AI (StarAI) Aug. 2017 <i>Stochastic gradient descent for relational logistic regression via partial network crawls.</i> • Purdue Statistics Graduate Student Seminar Mar. 2016 <i>Exchangeable random graphs, graph limits, and graphons.</i> <p>Poster presentations:</p> <ul style="list-style-type: none"> • 9th International Purdue Symposium on Statistics Jun. 2018 <i>Goodness-of-fit testing for discrete distributions via Stein discrepancy.</i> • 11th International AAAI Conference on Web and Social Media (ICWSM) May 2017 <i>Should we be confident in peer effects estimated from partial crawls of social networks?</i> • 3rd Amazon Graduate Research Symposium Dec. 2015 <i>Learning relational dependency networks from random walk crawls of large-scale networks.</i> 		
TEACHING EXPERIENCE	<p>Instructor</p> <ul style="list-style-type: none"> • Introduction to Probability Models (STAT 225) Fall 2014, Spring 2015 <p>Teaching Assistant</p> <ul style="list-style-type: none"> • Statistics and Society (STAT 113) Spring 2014 • Elementary Statistical Methods (STAT 301) Fall 2013, Spring 2014 		
PROFESSIONAL ACTIVITIES	<p>Coordinator of Purdue Machine Learning and Applications Seminar Fall 2015</p> <p>Reviewer/program committee member for:</p> <ul style="list-style-type: none"> • IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) 2017 • Machine Learning Journal (MLJ) 2018 • International Conference on Machine Learning (ICML) 2017, 2018 • Neural Information Processing Systems (NIPS) 2017, 2018 • Artificial Intelligence and Statistics (AISTATS) 2019 		
TECHNICAL SKILLS	<p>Programming languages:</p> <ul style="list-style-type: none"> • Python, R, MATLAB, C/C++, SQL, Mathematica, SAS, HTML, \LaTeX 		