

Nanwei Wang

Assistant Professor

Contact information

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Education

2013–2017 **PhD in Statistics**, *York University*, Toronto.

2012–2013 **Master in Statistics**, *York University*, Toronto.

2011–2012 **Master in Mathematics(dropout)**, *Xi'an Jiaotong University*, China.

2007–2011 **Bachelor of Science, Mathematics**, *Xi'an Jiaotong University*, China.

Research Interests

Graphical models, Bayesian model selection, Composite likelihood estimates, Big data analysis.

Working Experience

01/2021–
NOW **Assistant Professor**, *Department of Mathematics and Statistics*, University of New Brunswick, Fredericton.

12/2019–
06/2020 **Postdoctoral researcher**, *Pompeu Fabra University*, Barcelona, Spain.

11/2017–
11/2019 **Postdoctoral researcher**, *Lunenfeld-Tanenbaum Research Institute*, Toronto, Canada.

01–06/2017 **Short-term scholar**, *Department of Statistics, Carnegie Mellon University*, Pittsburgh, Pennsylvania.

2013–2017 **PhD Research**, *York University*, Toronto, Canada.

09-12/2013 **Visting scholar**, *Duke University*, North Carolina, Statistical and Applied Mathematical Sciences Institute(SAMSI).

Workshop talks

1. Mathematical methods of statistics summer school(June, 2016), Lebesgue Center of Mathematics, Angers, France
2. Positivity, graphical models and modeling of complex multivariate dependencies(Oct, 2014), American Institute of Mathematics, Palo Alto, California

Publication

1. Massam H, Wang, N. (2014). Distributed parameter estimation of discrete hierarchical models via marginal likelihoods. **Proceedings of 17th International Conference on Artificial Intelligence and Statistics (AISTATS)**.
2. Massam, H el ene, and Nanwei Wang. Local conditional and marginal approach to parameter estimation in discrete graphical models. **Journal of Multivariate Analysis** 164 (2018): 1-21.
3. Wang, Nanwei, Johannes Rauh, and H el ene Massam. Approximating faces of marginal polytopes in discrete hierarchical models. **The Annals of Statistics** 47.3 (2019): 1203-1233.
4. Wang, Nanwei, Aliye Kayis, H el ene Massam. Confidence intervals for cell probabilities when the MLE does not exist. **submitted to the Electronic Journal of Statistics**.
5. Wang, Nanwei, H el ene Massam, Laurent Briollais. The scalable Birth-Death MCMC Algorithm for Mixed Graphical Model Learning with Application to Genomic Data Integration. **submitted to The Annals of Applied Statistics**(2020).
6. Wang, Nanwei, David Rossell, Piotr Zwiernik. Modelling pairwise positive dependence. **in preparation**.

Funding

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