Wayne Yu Wang

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Education

2023 (expected)	Statistics, University of Michigan	Ph.D.
2018	Statistics, University of British Columbia	M.Sc.
2016	Actuarial Science, Simon Fraser University	B.Sc.

Research Interests

High-dimensional inference; Graphical models; (approximate) Bayesian inference; Generative models for spatio-temporal processes; Applications in natural sciences

Publications

- Wang, Y., Jang, B., & Hero, A. (2020). "The sylvester graphical lasso (syglasso)." Proceedings of the Twenty Third International Conference on Artificial Intelligence and Statistics, 108, 1943–1953.
- Wang, Y., Le, N. D., & Zidek, J. V. (2020). "Approximately optimal spatial design: How good is it?" *Spatial Statistics*, 100409.
- Casquilho-Resende, C., Le, N., Zidek, J., & Wang, Y. (2018). "Design of monitoring networks using k-determinantal point processes." *Environmetrics*, 29(1), e2483.

Submitted Papers

- Wang, Y., & Hero, A. (2020). "A proximal alternating linearized minimization method for tensor graphical models."
- Wang, Y., Hougen, C., Oselio, B., Dempsey, W., & Hero, A. (2020). "A geometry-driven longitudinal topic model."
- Wang, Y., Le, N. D., & Zidek, J. V. (2019). "Approximately optimal subset selection for statistical design and modelling." arXiv:1709.00151v3 [stat.CO].

Presentations

Contributed conference presentations

- Wang, Y. (2020). "Sylvester graphical models for complex spatio-temporal processes." Presentation at the fourth annual review for the ARO-MURI: Adaptive Exploitation of Non-Commutative Multimodal Information Structure, Ann Arbor, MI.
- Wang, Y. (2020). "The sylvester graphical lasso (syglasso)." Conference proceedings talk at the 2020 Joint Statistical Meetings (JSM), Philadelphia, PA.
- Wang, Y. (2020). "The sylvester graphical lasso (syglasso)." Conference proceedings talk at the AISTATS 2020, Palermo, Italy.

Invited presentations

Wang, Y. (2020). "A scalable tool for longitudinal twitter analysis: Understanding the impact of covid-19 on public discourse." Invited seminar talk in COVID-19 Data Science Research Special Webinar Series at the Michigan Institute for Data Science, Ann Arbor, MI.

Teaching

Teaching Assistant

University of Michigan | Department of Statistics

2020	STATS 551: Bayesian Modelling and Computation
	Description: Graduate-level introduction to Bayesian inference.
	Course materials: ywa136.github.io/teaching/stats551_2020Winter
2019	STATS 306: Introduction to Statistical Computing
	Description: Senior undergraduate-level introductory statistical
	computing course based on the R programming language.
	Course materials: https://ywa136.github.io/teaching/stats306_2019Fall
2019	STATS 426: Introduction to Theoretical Statistics
	Description: Senior undergraduate-level introduction to theoretical
	statistics.
2018	STATS 250: Introduction to Statistics and Data Analysis
	Description: Junior undergraduate-level course in applied statistical
	methodology for data analysis.

University of British Columbia | Department of Statistics

2017 STATS 251: Introductory Probability and Statistics 2016 STATS 200: Elementary Statistics for Applications

Awards, Fellowships, and Honors

2018 - 2019	Department of Statistics Fellowship, UMich
2018	International Doctoral Fellowship, UBC. (Declined; Five year \$35,000
	per year fellowship awarded to the top 15 admitted international
	doctoral students across the university.)
2017	Travel Award for CBMS Regional Conference on Spatial Statistics.
2016	Statistics & Actuarial Science Endowment Award: Academic Merit, SFU.
	(Awarded to undergraduate student with the best academic
	performance across the department in the academic year.)
2015	VP Research - Undergraduate Student Research Award, SFU. (Awarded
	for the research project "Robust program for automated
	statistical imputation of the Alzheimer's Disease Neuroimaging
	Initiative (ADNI) data".)
2014	April Allen Memorial Undergraduate Scholarship, SFU.
2014	President's Honour List, SFU.
2013 - 2016	Dean's Honour List, SFU.

Services

Reviewer for AISTATS 2021