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., Le, N. D., & Zidek, J. V. (2020). "Approximately optimal spatial design: How good is it?" *Spatial Statistics*, 100409. https://www.sciencedirect.com/science/article/pii/S2211675320300038
- Wang, Y., Jang, B., & Hero, A. (2020). The sylvester graphical lasso (syglasso), In *Proceedings* of the twenty third international conference on artificial intelligence and statistics, PMLR. http://proceedings.mlr.press/v108/wang20d.html
- Casquilho-Resende, C., Le, N., Zidek, J., & Wang, Y. (2018). "Design of monitoring networks using k-determinantal point processes". *Environmetrics*, 29(1), e2483. https://onlinelibrary.wiley.com/doi/full/10.1002/env.2483

Submitted Papers

- Wang, Y., & Hero, A. (2020). A proximal alternating linearized minimization method for tensor graphical models, In *Proceedings of the twenty fourth international conference on artificial intelligence and statistics*.
- Wang, Y., Hougen, C., Oselio, B., Dempsey, W., & Hero, A. (2020). "A geometry-driven longitudinal topic model". *Harvard Data Science Review*.
- Wang, Y., Le, N. D., & Zidek, J. V. (2019). "Approximately optimal subset selection for statistical design and modelling". *Journal of Statistical Computation and Simulation*. https://arxiv.org/abs/1709.00151

Presentations

Contributed presentations

Wang, Y. (2020). Sylvester graphical models for complex spatio-temporal processes, In *The 4th 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), In *Joint statistical meetings (jsm) 2020*, philadelphia, pa.
- Wang, Y. (2020). The sylvester graphical lasso (syglasso), In Aistats 2020, palermo, italy.
- Wang, Y. (2018). Uncertainty quantification for minimum and maximum temperature forecast, In Joint statistical meetings (jsm) 2018, vancouver, canada.
- Wang, Y. (2018). Determinantal point processes with application to spatial design, In *The 46th annual meeting of the statistical society of canada (ssc) 2018, montreal, canada.*
- Wang, Y. (2017). Determinantal point processes with application to spatial design, In Sfu/ubc joint statistics seminar.

Invited presentations

Wang, Y. (2020). A scalable tool for longitudinal twitter analysis: Understanding the impact of covid-19 on public discourse, In *Covid-19 data science research special webinar series, michigan institute for data science, ann arbor, mi.*

Teaching

Teaching Assistant

University of Michigan | Department of Statistics

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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
	Description: Introductory statistics and probability course for junior
	undergraduates major in statstics.
2016	STATS 200: Elementary Statistics for Applications
	Description: Introductory statistics course for junior undergraduates
	major in arts and social sciences.

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