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), In *Proceedings of the twenty third international conference on artificial intelligence and statistics*, PMLR. http://proceedings.mlr.press/v108/wang20d.html

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

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".

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]*. https://arxiv.org/abs/1709.00151

Presentations

Contributed presentations

Wang, Y. (2020). Sylvester graphical models for complex spatio-temporal processes, In *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), In *Conference proceedings talk at the 2020 joint statistical meetings (jsm), philadelphia, pa.*

Wang, Y. (2020). The sylvester graphical lasso (syglasso), In *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, In *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