

2. **B. Bilodeau**, L. Wang, D. M. Roy. (2022). Adaptively Exploiting d -Separators with Causal Bandits. **Neural Information Processing Systems (Oral)**.
3. *J. Negrea, ***B. Bilodeau**, N. Campolongo, F. Orabona, D. M. Roy. (2021). Minimax Optimal Quantile and Semi-Adversarial Regret via Root-Logarithmic Regularizers. **Neural Information Processing Systems**.
4. **B. Bilodeau**, D. J. Foster, D. M. Roy. (2020). Tight Bounds on Minimax Regret Under Logarithmic Loss via Self-Concordance. **International Conference on Machine Learning**.
5. **B. Bilodeau**, D. A. Stanford. (2022). High-Priority Expected Waiting Times in the Delayed Accumulating Priority Queue with Applications to Health Care KPIs. **INFOR: Information Systems and Operational Research**.
6. **B. Bilodeau**, D. A. Stanford, M. Goldszmidt, A. Appleton. (2019). Simulated Co-location of Patients Admitted to an Inpatient Internal Medicine Teaching Unit: Potential Impacts on Efficiency and Physician-Nurse Collaboration. **INFOR: Information Systems and Operational Research**.

PREPRINTS

1. **B. Bilodeau**, Y. Tang, A. Stringer. (2022). On the Tightness of the Laplace Approximation for Statistical Inference. **arXiv:2210.09442**.
2. *A. Stringer, ***B. Bilodeau**. (2022). Fitting Generalized Linear Mixed Models using Adaptive Quadrature. **arXiv:2202.07864**.
3. **B. Bilodeau**, D. J. Foster, D. M. Roy. (2021). Minimax Rates for Conditional Density Estimation via Empirical Entropy. **arXiv:2109.10461**.
4. ***B. Bilodeau**, *J. Negrea, D. M. Roy. (2020). Relaxing the I.I.D. Assumption: Adaptively Minimax Optimal Regret via Root-Entropic Regularization. **arXiv:2007.06552**.

ADDITIONAL SCHOLARLY WORK

B. Bilodeau. (2022). Blair Bilodeau's Contribution to the Discussion of 'Assumption-Lean Inference for Generalised Linear Model Parameters' by Vansteelandt and Dukes. **Journal of the Royal Statistical Society: Series B**.

CONTRIBUTED AND INVITED TALKS/SEMINARS/COLLOQUIA/WORKSHOPS

Adaptively Exploiting d -Separators with Causal Bandits

Dec 2022 International Conference on Computational and Methodological Statistics (**Invited**)
Nov 2022 University of Chicago Rising Stars in Data Science Workshop
June 2022 Statistical Society of Canada Annual Meeting: Oral Session
May 2022 University of Toronto Statistical Sciences Research Day: Oral Session
May 2022 Simons Institute for the Theory of Computing: Statistical Theory Reading Group
Mar 2022 Carnegie Mellon University: Zachary Lipton Lab Meeting (**Invited**)

Minimax Rates for Conditional Density Estimation via Empirical Entropy

Sep 2022 CREST-CMAP Weekly Seminar (**Invited**)
June 2022 Institute of Mathematical Statistics Annual Meeting: Oral Session
Aug 2021 American Statistical Association Joint Statistical Meetings: Speed Session
June 2021 Statistical Society of Canada Annual Meeting: Oral Session
Apr 2021 University of Toronto Statistical Sciences Research Day: Oral Session

Relaxing the I.I.D. Assumption: Adaptively Minimax Optimal Regret via Root-Entropic Regularization

Feb 2022 Simons Institute for the Theory of Computing: Learning with Strategic Behaviour Reading Group
Dec 2021 NeurIPS Workshop on Robustness and Misspecification in Prob. Modeling (**Peer-Reviewed**)
Apr 2021 DeepMind: Foundations Reading Group (**Invited**)

- Mar 2021 University of California, Los Angeles: Computer Science Seminar **(Invited)**
- Mar 2021 Massachusetts Institute of Technology: Stochastics and Statistics Seminar **(Invited)**
- Feb 2021 RIKEN Center for Advanced Intelligence Project: Public Seminar **(Invited)**

An Introduction to Theoretical Statistics Research

- June 2022 University of Toronto: Undergraduate Research Opportunity Program Weekly Seminar **(Invited)**
- July 2021 University of Toronto: Independent Summer Stats Community Talk Series **(Invited)**

Stochastic Convergence Rates and Applications of Adaptive Quadrature in Bayesian Inference

- June 2021 International Society for Bayesian Analysis World Meeting: Oral Session

Tight Bounds on Minimax Regret under Logarithmic Loss via Self-Concordance

- Aug 2020 American Statistical Association Joint Statistical Meetings: Poster Session
- Mar 2020 New York Academy of Sciences Machine Learning Symposium: Poster Session
- Mar 2020 Institute for Advanced Study: Special Year Student Seminar

Scraping Papers from arXiv and biorXiv using Python

- May 2020 Canadian Statistics Student Conference: Scientific Workshop **(Invited)**

High-Priority Expected Waiting Times in the Delayed Accumulating Priority Queue

- Aug 2019 Canadian Queueing Conference: Oral Session
- June 2019 Southwestern Ontario Graduate Math and Stats Conference: Oral Session
- May 2019 Canadian Operational Research Society Annual Meeting: Oral Session

Simulated Co-location of Patients Admitted to an Inpatient Internal Medicine Teaching Unit

- Aug 2018 Canadian Queueing Conference: Oral Session
- July 2018 Operational Research Applied to Health Services Annual Meeting: Oral Session

TEACHING

Course Instructor

- STA347: Probability Theory (2020, 2021)

Teaching Assistant

- STA238: Probability, Statistics, and Data Analysis II (2021)
- STA257: Probability and Statistics I (2019, 2020, 2021)
- STA347: Probability Theory (2018, 2020, 2021)
- STA442: Methods of Applied Statistics (2019)
- STA261: Probability and Statistics II (2019)
- STA355: Theory of Statistical Practice (2019)
- STA457: Time Series Analysis (2019)
- ACT230: Mathematics of Finance for Non-Actuaries (2018)

OTHER ACADEMIC ACTIVITIES

Journal Referee

IEEE Transactions on Information Theory, Journal of Machine Learning Research, Machine Learning

Conference and Workshop Referee

AISTATS (2022, 2023), ALT (2021, 2023), COLT (2022), ICLR (2022), ICML (2022), NeurIPS (2021, 2022)

Leadership Experience

- 2022 Statistical Sciences Research Day Planning Committee, University of Toronto
- 2019–21 Treasurer, Statistics Graduate Student Association, University of Toronto