

Ian Waudby-Smith

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Education

Carnegie Mellon University
PhD, Statistics

Pittsburgh, PA
2019–present

Carnegie Mellon University
MS, Statistics
GPA: 4.1/4.0

Pittsburgh, PA
2019–20

University of Waterloo
BMath, Joint Honours Pure Mathematics & Statistics (Co-op)
GPA: 3.9/4.0, Dean's Honours List

Waterloo, Canada
2013–18

Papers

Ian Waudby-Smith, David Arbour, Ritwik Sinha, Edward H. Kennedy, and Aaditya Ramdas. Doubly robust confidence sequences for sequential causal inference. *arXiv preprint*, 2021+.

Ian Waudby-Smith and Aaditya Ramdas. Estimating means of bounded random variables by betting. *submitted*, 2021+.

Ian Waudby-Smith, Philip B. Stark, and Aaditya Ramdas. RiLACS: Risk-limiting audits via confidence sequences. *E-Vote-ID (accepted)*, 2021.

Ian Waudby-Smith and Aaditya Ramdas. Confidence sequences for sampling without replacement. *NeurIPS (Spotlight)*, 2020.

Ian Waudby-Smith, A Simon Pickard, Feng Xie, and Eleanor M Pullenayegum. Using both time tradeoff and discrete choice experiments in valuing the EQ-5D: Impact of model misspecification on value sets. *Medical Decision Making*, 2020.

Ian Waudby-Smith, Nam Tran, Joel A Dubin, and Joon Lee. Sentiment in nursing notes as an indicator of out-of-hospital mortality in intensive care patients. *PloS one*, 13(6), 2018.

Experience

Adobe Inc.
Research Data Science Intern
Supervisors: Dr. David Arbour & Dr. Ritwik Sinha
○ Nonparametric sequential causal inference — [link to paper](#).

San Jose, CA
Jun–Aug 2020

The Hospital for Sick Children (SickKids)
Research Student
Supervisor: Dr. Eleanor Pullenayegum
○ Understanding model misspecification in quality-of-life surveys — [link to paper](#).

Toronto, ON
Apr–Aug 2019

Health Data Science Lab, University of Waterloo*Research Assistant*

Supervisors: Dr. Joel Dubin & Dr. Joon Lee

- Sentiment analysis and mortality in intensive care patients — [link to paper](#).

Waterloo, ON

2016–18

Department of Statistics, University of Waterloo*Research Assistant*

Supervisor: Dr. Pengfei Li

- Robust statistical tests for zero-inflated data — [link to R package](#).

Waterloo, ON

Apr–Aug 2017

Cancer Care Ontario*Student Analyst - Strategic Analytics*

Supervisor: Dr. Zhihui (Amy) Liu

- Multi-state models for forecasting chronic kidney disease progression.

Toronto, ON

Jan–Apr 2016

SS&C Technologies*Developer in R&D*

- Prototyped a distributed application on the Ethereum network.
- Built a conference management suite in Ruby on Rails.

Toronto, ON

Apr–Aug 2015

Computational Skills

Programming languages: R, Python, Haskell, Lisp, C**Technologies:** git, SQL, *nix, CI/CD

Teaching Experience

Carnegie Mellon University*Graduate Teaching Assistant*

- 36-708: Statistical Methods in Machine Learning
- 36-462: Data Mining
- 36-401: Modern Regression

Pittsburgh, PA

2019-21

Awards

Carnegie Mellon University Department of Statistics and Data Science*Teaching Assistant of the Year***Pittsburgh, PA**

2020–21

University of Waterloo*David Johnston International Experience Award***Waterloo, ON**

2017–18

The Natural Sciences and Engineering Research Council of Canada*NSERC Undergraduate Student Research Award*

2016–17

University of Waterloo*President's Research Award (received twice)***Waterloo, ON**

2016–17

University of Waterloo*University of Waterloo President's Scholarship of Distinction***Waterloo, ON**

2013–14