

Ian Waudby-Smith

✉ ianws@cmu.edu • 🌐 github.com/wannabesmith
🌐 ian.waudbysmith.com

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

San Jose, CA
Jun–Aug 2020

○ Nonparametric sequential causal inference — [link to paper](#).

The Hospital for Sick Children (SickKids)
Research Student
Supervisor: Dr. Eleanor Pullenayegum

Toronto, ON
Apr–Aug 2019

○ Understanding model misspecification in quality-of-life surveys — [link to paper](#).

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