

Education

- 2019 - present **PhD, Statistics**, *Carnegie Mellon University*, Pittsburgh, PA.
- 2019 - 2020 **MS, Statistics**, *Carnegie Mellon University*, Pittsburgh, PA.
GPA: 4.1/4.0
- 2013 - 2018 **BMath, Pure Math & Statistics**, *University of Waterloo*, Waterloo, ON.
GPA: 3.9/4.0, Dean's Honours List

Papers

Ian Waudby-Smith and Aaditya Ramdas. Variance-adaptive confidence sequences by betting. *arXiv preprint*, 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

- Jun - Aug 2020 **Research Data Science Intern**, *Adobe Inc.*, San Jose, CA.
Supervisors: Dr. David Arbour & Dr. Ritwik Sinha
○ Nonparametric confidence sequences for causal effects (paper in progress).
- Apr - Aug 2019 **Research Student**, *The Hospital for Sick Children (SickKids)*, Toronto, ON.
Supervisor: Dr. Eleanor Pullenayegum
○ Understanding model misspecification in quality-of-life surveys — [link to paper](#).
- 2016 - 2018 **Research Assistant**, *Health Data Science Lab, University of Waterloo*, Waterloo, ON.
Supervisors: Dr. Joel Dubin & Dr. Joon Lee
○ Sentiment analysis and mortality in intensive care patients — [link to paper](#).
- Apr - Aug 2017 **Research Assistant**, *Department of Statistics, University of Waterloo*, Waterloo, ON.
Supervisor: Dr. Pengfei Li
○ Robust statistical tests for zero-inflated data — [link to R package](#).

- Jan - Apr 2017 **Research Assistant**, *Department of Pure Mathematics, University of Waterloo, Waterloo, ON, Canada.*
Supervisor: Dr. Yu-Ru Liu
○ Sieve methods in analytic number theory.
- Jan - Apr 2016 **Student Analyst - Strategic Analytics**, *Cancer Care Ontario, Toronto, ON.*
Supervisor: Dr. Zhihui (Amy) Liu
○ Multi-state models for forecasting chronic kidney disease progression.

Computational Skills

Programming languages **Python** {numpy, scipy, matplotlib, pandas, sklearn},
R {data.table, tidyverse}, **Haskell**, **Scheme**, **C**

Technologies **git**, **SQL**, **L^AT_EX**, **Linux**

Teaching Experience

- Jan - May 2021 **Graduate Teaching Assistant**, *Carnegie Mellon University, Pittsburgh, PA.*
36-708: The ABCDE of Statistical Methods in Machine Learning
- Jan - May 2020 **Graduate Teaching Assistant**, *Carnegie Mellon University, Pittsburgh, PA.*
36-462: Data Mining
- Aug - Dec 2019 **Graduate Teaching Assistant**, *Carnegie Mellon University, Pittsburgh, PA.*
36-401: Modern Regression

Awards

- 2017 - 2018 **David Johnston International Experience Award**, *University of Waterloo, Waterloo, ON.*
- 2016 - 2017 **NSERC Undergraduate Student Research Award**, *The Natural Sciences and Engineering Research Council of Canada.*
- 2016 - 2017 **President's Research Award (1)**, *University of Waterloo, Waterloo, ON.*
- 2016 - 2017 **President's Research Award (2)**, *University of Waterloo, Waterloo, ON.*
- 2013 - 2014 **University of Waterloo President's Scholarship of Distinction**, *University of Waterloo, Waterloo, ON.*