Ian Waudby-Smith

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Education

2019 - present	**PhD, Statistics**, *Carnegie Mellon University*, Pittsburgh, PA.
2019 - 2020	**MS, Statistics**, *Carnegie Mellon University*, Pittsburgh, PA.
2013 - 2018	**BMath, Pure Math & Statistics**, *University of Waterloo*, Waterloo, ON. With Distinction - Dean's Honours List

Publications

I. Waudby-Smith, A. S. Pickard, F. Xie, and E. 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.

I. Waudby-Smith and A. Ramdas. Confidence sequences for sampling without replacement. *NeurIPS*, 2020.

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

Teaching Experience

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

Presentations

Aug 2020	**Confidence sequences for sampling without replacement**, *Joint Statistical Meetings*, Remote due to COVID-19. Poster presentation.
Jun 2016	**Multi-state models for chronic kidney disease prevalence projections in Ontario**, *Statistical Society of Canada Annual Meeting*, St. Catherines, ON. Poster presentation.

Experience

June - Aug 2020	**Research Data Science Intern**, *Adobe Inc.*, Remote due to COVID-19. 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	**R, Python, Haskell, C++**
Technologies	**SQL, Linux, git, LaTeX**

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.