

ian waudby-smith

student, statistician, developer

about

iwaudbysmith@gmail.com 

waudbysmith.com 

github.com/wannabesmith 

programming

R, Python, Java, C++

Scheme, JavaScript

technologies

SQL, Linux, git

Hadoop, L^AT_EX

education

since 2013

Candidate for Honours Bachelor of Mathematics

University of Waterloo

Pure Mathematics & Statistics (Co-op)

Major average: 91%, cumulative average: 90%

experience

05/16 - now

Research Assistant, UW Health Data Science Lab

Waterloo, ON

- Performed sentiment analysis on millions of electronic medical records.
- Used logistic regression and survival models for inference/prediction.
- Wrote a paper summarizing methods and results (submitted).

04/17 - 08/17

Research Assistant, University of Waterloo

Waterloo, ON

- Wrote an R package to perform robust statistical tests (on CRAN).
- Used parallel computing to reduce simulation time by more than 95%.
- Proved (asymptotic) relationships between statistical tests of interest.

01/16 - 04/16

Analyst - Strategic Analytics, Cancer Care Ontario

Toronto, ON

- Developed a model to predict prevalence of chronic kidney disease.
- Wrote algorithms to quantify similarity between cancer treatments.

04/15 - 08/15

R&D Developer, DST Systems

Toronto, ON

- Wrote a MapReduce program to perform fuzzy string comparison.
- Wrote an XML to CSV for use with Hadoop's Distributed File System.

09/14 - 12/14

Software Developer, PureFacts Financial Solutions

Toronto, ON

- Implemented an error handling pattern for fail-safe API calls.

presentations & projects

06/16

Statistical Society of Canada conference

Brock University

Multi-state models for chronic kidney disease prevalence projections in Ontario (oral & poster presentations).

04/16

Cancer Care Ontario Research Day

Toronto, ON

Sequence analysis of patient-care pathways: A study of colorectal cancer in Ontario (poster presentation).

09/15

HackTheNorth

University of Waterloo

- Visualized the sentiment of tweets referring to Canadian political parties.
- Retrieved tweets using the python library, tweepy.

02/15

DeltaHacks

McMaster University

- Made Wikipedia accessible via SMS using Twilio and the Wikipedia API.