Rosie Zou

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Education

University of Waterloo

Honours B.CS
Data Science Option
Graduation: April 2019

Skills

Programming

Python, Java, C, C++, R, Stata, SQL, VBScript

Libraries & Frameworks

WEKA, scikit-learn, pandas, numpy, scipy, flask

Foreign Languages

Fluent Mandarin
Advanced French
Intermediate Japanese
Beginner Spanish

Communication

Business writing
Public speaking
Investor relations
Digital marketing

Tools

Sketch
Adobe InDesign

Relevant Courses

Algorithms and Data Structure
Applied Linear Models
Introduction to Combinatorics
Logic and Computation
Mathematical Statistics
Computational Statistics
Object-Oriented Programming

Experience

Research Assistant, University of Waterloo May 2017 - pres.

- Supervised by Prof. Matthias Schonlau, School of Actuarial Science
- Created a Stata plugin that implements all functions from the Random Forest class in the WEKA library, as a part of a long-term NLP research project
- Plugin distributed to all Stata users on www.schonlau.net/stata/
- Source code available upon request at https://git.uwaterloo.ca/schonlau/randomforest
- Full-time from May to Aug, Part-time from Sep to Dec
- Main task during part-time contract is the first draft of the Random Forest paper (to be eventually submitted to Stata)

Equity Trading Intern, TD Securities Apr - Dec 2016

- Analyzed and visualized TD historic trades and order routing trends
- Researched various financial databases to compile market reports
- Regularly conducted research and data analysis used for marketing
- Re-worked latency calculation script used for performance analysis

Projects

Waterloop May - Aug 2017

- University of Waterloo's competitive Hyperloop team
- Software systems developer for telemetry and navigation
- Designed and created mathematical models for navigation system using IMU, optical, and photoelectric distance sensors
- Designed and implemented raw data noise reduction models using support vector regression with radial basis function kernel
- Co-designed state diagram for the entire system, submitted to SpaceX for Phase II Competition
- Code available at github.com/teamwaterloop/data-processing

Hackathon Projects Sep 2015 - Sep 2017

- 8 hackathons where I designed and implemented ML algorithms
- Project areas range from mobile/web app developemnt to hardware and augmented reality
- Awards and recognitions include :
  - Top 10 at HackMIT
  - Best Use of Data Visualization at DubHacks
  - Capital One prize at Mhacks
  - Algorithmia API prize at DubHacks
- Details at devpost.com/rosiezou and rosiezou.com