

# Rosie Zou

 rosiezou.com

 604-616-1188

 github.com/rosiezou

 rosiezou@gmail.com

## Education

### University of Waterloo

Honours B.CS

Data Science Option

Graduation: April 2019

## Technical Skills

### Programming

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

### Libraries & Frameworks

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

### Tools

Sketch  
Adobe InDesign

## Business Skills

### Communication

Business Writing  
Digital Marketing  
Public Speaking

### Foreign Languages

Fluent Chinese  
Advanced French  
Advanced Japanese  
Beginner Spanish

## Misc. Projects

- 8 hackathon projects from F15 to F17
- Main role on the team was ML algo design
- Mostly AR & web apps
- Full details on [devpost.com/rosiezou](http://devpost.com/rosiezou)

## Work Experience

### Research Assistant, University of Waterloo May - Aug 2017

(Part-time: Sep 2017 - Pres.)

- Supervised by Statistics Professor Matthias Schonlau
- 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
- Finished first draft of paper available at [www.rosiezou.com](http://www.rosiezou.com)
- Plugin distributed to all Stata users on [www.schonlau.net/stata/](http://www.schonlau.net/stata/)
- All source code available upon request

### 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

## Data Projects

### CSEye March - Apr 2017

- STAT 441 W18 Group Final Project (4-people group)
- Designed and implemented new CNN arch. for face verification
- Features a new proximity scoring method using weight sharing
- Full technical details and code on personal site and github

### Multiple Imputation for Survey Data Apr 2017

- STAT 440 W18 Group Final Project (2-people group)
- Designed and implemented new multiple imputation algorithm for analysis of latent variables in surveys with ordinal responses
- Full technical details and code on personal site and github

### Financial Data Analyses Apr 2017

- STAT 444 W18 Group Final Project (3-people group)
- Analyses and prediction of log-scaled retained earnings
- Tuned and compared three parametric and non-parametric models
- Full technical details and code on personal site and github

### 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 support vector regression models for noise reduction of raw signal data
- Co-designed state diagram for entire system
- Archive code available on personal site and github