# Junkyu Park

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https://joon3216.github.io/

### Education

**H.B.Sc.:** statistics specialist and math minor (GPA: 3.83) University of Toronto

Jun 2019

## Experience

Methodologist (MA-01)

Jan 2020 - Present  $\cdot$  4 mos Ottawa, ON

Statistics Canada

- documented on various topics and ideas in statistics and computations
- involved in analysis and modeling process conducted by senior methodologists
- initiated a development of packages in R and Python

### Skills

- Data analysis
  - data manipulation: dplyr, tidyr, pandas
  - data visualization: ggplot2, matplotlib.pyplot, seaborn
  - regression analysis: R functions and packages, statsmodels.api
  - statistical computations: manually written functions, numpy, scipy
  - comprehension: able to find references and read documentations of external packages
- Technical
  - Markdown/R Markdown: able to form documentations
  - Git and git repositories:
    - \* able to use basic git commands
    - \* able to integrate dynamic badges supported by Travis CI and Codecov.io
  - Some knowledge of HTML and CSS: currently maintaining joon3216.github.io
  - SQL: able to join tables and write subqueries
  - Python and R
    - \* able to utilize external packages for modeling, computations, and visualizations
    - \* able to develop a simple package and upload to the archives
- Languages: English, Korean

## **Projects**

Package development (work): sprcr package in R

- included the following functionalities to the package:
  - plotting kernel density estimates and empirical cdfs based on different colour and panel groups
  - smoothing out data points based on constraints and selected options
  - performing k-fold cross-validation in the smoothing process

#### Modeling (personal): credit card fraud detection

- built statistical models and provided analysis of data to detect fraudulent credit card use
- expected to achieve an accuracy of 97.105% and a true positive rate of 87.204% for every 6-hour worth of transaction data with the current model and the training set