PETER TEA

(+1) 613 501 1108 ◇ ptea@sfu.ca ◇ petertea.netlify.app ◇ Vancouver, Canada

TECHNICAL STRENGTHS

Statistical Tools: R, Python, SQL, SAS, SPSS
Other Tools: Git, BASH, LaTex, Markdown

EDUCATION

Simon Fraser University Sep 2019 - Current
Master of Science in Statistics
Awards: Natural Sciences and Engineering Research Council of Canada Graduate Scholarship, BC Graduate Scholarship, Dean's Graduate Fellowship

University of Ottawa Sep 2014 - Apr 2019
Honours Bachelor of Science - Biostatistics (*Summa Cum Laude*)
Award: NSERC Undergraduate Student Research Award

STATISTICS EXPERIENCE

Guest Tennis Analytics Blogger - `http://on-the-t.com/` Jun 2019 - Current

- Explored serve strategy patterns with intuitive heatmaps: A Spatial Exploration of Serve Patterns.
- Introduced a novel serve-return performance metric: Sizing up the Height Advantage.
- Summarized polarizing serve trends in men's and women's tennis: Serve Chronicles.

Data Science Co-op - Aquatic Informatics May 2020 - Aug 2020

- Reported user effort and organizational costs with an interactive dashboard — developed with *plotly-dash* — allowing managers to make informed, data-driven decisions.
- Tidied raw data from an *AWS* bucket into a consistent and analyzable format, using **Python**.
- Applied *anomaly detection* algorithms on time series data, and evaluated its performances. Recommended improvements based on observed user patterns and customer survey data.

Quantitative Analyst Intern - Canada Revenue Agency Summer 2019 & Fall 2020

- Implemented unsupervised algorithms, with **SAS**, on Canadian corporation data to decipher patterns in tax-evasion behaviour.
- Researched Machine Learning and Econometric Model applications to complex tax data. Presented these findings to management and advised on future strategic plans.

R Consultant - Research Commons Library Sep 2019 - Apr 2020

- Provided individual and group consultations to graduate researchers on data wrangling, visualization and statistical analysis to advance ongoing research project deliverables.
- Assisted on **R** and **Python** workshops to effectively communicate programming concepts for beginners.

Statistical Genetics Research Assistant - University of Ottawa May 2018 - Apr 2019

- Explored novel data-dimension-reduction approaches in **R** — aimed at identifying genetic risk factors. Validated performances through simulation and with application on a Crohn's disease data-set.
- Presented a poster at an academic Health research conference attended by medical students.

Analyst - Transport Canada Jul 2018 - Apr 2019

- Improved decision-making by verifying concerns of stakeholders by supporting unknown claims with added context and evidence.

· Maintained data integrity by meticulously fixing data entry errors.

DATA PROJECTS

MIT Sloan Sports Analytics Conference Hackathon Mar 2020

· Created visual representations of college basketball player tracking data with ggplot and gganimate.

· Analysed the relationship between player shot release angles and release velocities on the success of shot attempts.

A Dynamic Approach to modelling career All-NBA selection counts Oct 2019

· Applied Regression models to predict a player's All-NBA selection count at any stage of their career.

· Scraped and engineered meaningful features from raw NBA box-score data from the past 30+ years into a tidy, usable dataset.