Randall **Boyes**

Data Scientist and PhD Candidate

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Employment History

Presage Group, Inc.   *Burlington, ON (Remote)*
Director of Analytics   *2021 - Present*
- Team leader for analytics department at a small consulting company working with multinational companies in the aerospace industry, including airlines, air traffic control, and training organizations
- Provided statistical and technical advice to executive team, including developing client proposals and guiding internal technical decisions
- Developed automated data cleaning, validation, and reporting systems to improve department efficiency using rmarkdown/quarto, targets, pointblank, and tidyverse packages in R
- Worked with external technical contractors to develop an improved data collection system using python and Google Cloud products.

Sunnybrook Health Sciences Centre   *Toronto, ON (Remote)*
Data Scientist   *2020 - 2021*
- Responsible for the development of a prediction model for survival in patients with esophageal cancer after resection.

Canadian Forces Health Services Group   *St. Jean, QC (Remote)*
Data Analyst   *2018 - 2020*
- Primary analyst responsible for development of an automated data processing pipeline for dental health data.

Queen's University   *Kingston, ON*
Adjunct Professor   *2015 - 2019*
- Primary instructor for 8 sessions of 2 graduate-level courses in Quantitative Analysis.

Education

Queen's University   *Kingston, ON*
PhD Public Health Sciences   *2016 - Present*
- Thesis: Using geospatial and image-derived information about the built environment, developed prediction models for children's outdoor active play behaviour. Initial models based on a pilot study in Vancouver, BC were scaled to the national level by incorporating data from a Canadian survey of children's health behaviour.

Queen's University   *Kingston, ON*
MSc Epidemiology   *2013 - 2015*
- Thesis: A analysis of the comparitive safety and effectiveness of drugs used to treat acute urinary retention using routinely collected health data.

Queen's University   *Kingston, ON*
BScH Life Sciences   *2009 - 2013*
- Thesis: Explored the financial costs incurred by caregivers of older patients in the intesive care unit.

Skills

Personal and Analytical
Prediction Modelling · Data Cleaning, Management, and Visualization · Project Management · Teaching

Languages, Tools, and Packages
R · SAS · Python · Julia · C++ · SQL · Stan · RMarkdown · Shiny · Git · Docker · LaTeX · keras · tidyverse · caret

Recent Publications

Batsos, C., Boyes, R., & Mahar, A. (2021). Community water fluoridation exposure and dental caries experience in newly enrolled members of the canadian armed forces 2006-2017. *Can. J. Public Health*.

Harrison, L., Mahar, A., Coburn, N., Boyes, R., Pugliese, M., Compton, C., … Hsu, A. (2022). Development of a prediction model for survival time in esophageal cancer patients treated with resection. *International Journal of Population Data Science*, *7*(3). https://doi.org/10.23889/ijpds.v7i3.2097

Linden, B., Boyes, R., & Stuart, H. (2021). Cross-sectional trend analysis of the NCHA II survey data on canadian post-secondary student mental health and wellbeing from 2013 to 2019. *BMC Public Health*, *21*(1), 590.