





Randall Boyes




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Epidemiologist by training, currently working to understand decision-making in high-risk scenarios at Presage Group.

Professional Experience

- **Presage Group, Inc.**
DIRECTOR OF ANALYTICS
Burlington, ON
2021 - Present
- Lead a team of data scientists and analysts to solve problems and answer questions for clients in the airline industry
 - Collaborate with executive leadership to implement best practices for data governance, quality, and security
- **Sunnybrook Health Sciences Centre**
DATA SCIENTIST
Toronto, ON
2020 - 2021
- Worked with a team of physicians and analysts to developed a prediction model for cancer outcomes using large health databases.
- **UManitoba & Royal Canadian Dental Corps**
DATA SCIENTIST
Saint-Jean-sur-Richelieu, QC
2018 - 2020
- Developed a prediction model for dental readiness in the Canadian Armed Forces.
- **Queen's University**
ADJUNCT PROFESSOR
Kingston, ON
2015 - 2019
- Taught seven semesters of graduate-level statistics and quantitative analysis courses for the School of Policy Studies.

Education

- **Queen's University**
DOCTOR OF PHILOSOPHY: PUBLIC HEALTH SCIENCES
Kingston, ON
2016 - 2023
- Thesis: Development of a Canadian Index of Playability
 - Courses: Statistics | Epidemiology
- **Queen's University**
MASTER OF SCIENCE: EPIDEMIOLOGY
Kingston, ON
2013 - 2015
- Thesis: Patterns of Use and Comparative Safety of New and Old Anticholinergic Medications in Older Adults: a Population-Based Study
 - Courses: Statistics | Public Health | Pharmacoepidemiology
- **Queen's University**
BACHELOR OF SCIENCE (HONORS)
Kingston, ON
2009 - 2013
- Thesis: Caregiver Out-of-Pocket Costs for Octogenarian Intensive Care Unit Patients in Canada
 - Courses: Life Sciences | Epidemiology | Mathematics | Statistics

Recent Publications

Batsos, C., Boyes, R., Mclsaac, M., Webber, C., & Mahar, A. (2023). Development of a risk prediction model for assessing dental readiness in the Canadian Armed Forces. *Military Medicine*, 188(5–6), e1060–e1069.

Boyes, R., Pickett, W., Janssen, I., Swanlund, D., Schuurman, N., Masse, L., Han, C., & Brussoni, M. (2023). Physical environment features that predict outdoor active play can be measured using Google Street View images. *International Journal of Health Geographics*, 22(1), 26–27.

Harrison, L., Mahar, A., Coburn, N., Boyes, R., Pugliese, M., Compton, C., Darling, G., Davis, L., Decker, K., Gupta, V., & others. (2022). Development of a Prediction Model for Survival Time in Esophageal Cancer Patients Treated with Resection. *International Journal of Population Data Science*, 7(3).

Wilde, J., Boyes, R., Robinson, A. V., Daisley, B. A., Botschner, A. J., Brettingham, D. J., Macpherson, C. V., Mallory, E., & Allen-Vercoe, E. (2024). Assessing phage-host population dynamics by reintroducing virulent viruses to synthetic microbiomes. *Cell Host & Microbe*, 32(5), 768–778.

Skills

Languages R | Julia | Python | C++ | Stan | Rust
Activities Automated Reporting | Dashboards | Cloud Computing | Prediction Models | Scientific Communication