

Rachael Jaffe, MSc

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Publication list

Health Data Analyst with a specific focus in Health Economics. Highly skilled in **R and SAS**, **Data Visualization**, and 4+ years of experience in **economic and statistical modelling** in R and SAS. Graduated with a Master's degree in Health Services Research from the University of Toronto.

Experience

Consultant *Statlog*

04/24 - present

Montreal, QC

Responsibilities

- Performing RWE analysis studies across multiple data sources, including claims, registries, and clinical trial data.
- Developing HTA services for regulatory submissions.
- Developed an in-house R package, leveraging AI, for streamlined analytics.

Highlighted Skills health economics, RWE, HTA, claims data, R, SAS, SQL

Data Analyst *Asclepius Analytics*

12/2023 - 04/2024

Remote, (Montreal based)

Responsibilities

- Saved over 5+ hours a week by coding an automation process for weekly data audits to ensure data quality
- Analyzed and published research about RWE (treatment patterns, HCRU) using proprietary registry data and claims databases.
- Developed an in-house R package for streamlined analytics.

Highlighted Skills health economics, RWE, claims data, R, SAS

Research Assistant *VHA Home Healthcare*

06/2023 - 1/2024

Toronto, ON Part Time

Responsibilities

- Conducted data analysis for 4+ quantitative research projects using large administrative databases
- Research focuses on the dynamic labor economic outcomes of Personal Support Workers in Ontario
- Delivered insights that informed strategic costing decisions within the company and for health policy

Highlighted Skills survival analysis, longitudinal data, clustering methods, Shiny Apps (R), cost models

Research and Data Analyst *Unity Health (St. Michael's Hospital)*

05/2020 - 05/2023

Toronto, ON

Responsibilities

- Completed 3+ peer-reviewed papers exploring the labor market outcomes of injuries and diseases of the head and spine
- Responsible for the analysis on projects that use large administrative databases (StatsCan, TQIP, ICES).

Highlighted Skills longitudinal models (panel data), diff-in-diff, mixed models (hierarchical), outcomes research

Education

Master of Health Services Research *University of Toronto*

09/2021 - 11/2023

- Emphasis in Health Economics
- Relevant Courses: Econometrics, Economic Evaluation (HTA), Health Systems & Policy

Honors Bachelor of Science *University of Toronto*

09/2016 - 06/2020

- Major: Global Health, Minor: Statistics & Economics
- GPA: 3.5 (High Distinction)

Recently Published

- **R. Jaffe** , P. Coyte, et al. Traumatic cervical spinal cord injury and income and employment status. JAMA Netw Open, 7(6), 2024.
- **R. Jaffe** , A. Malhotra, et. al. Unemployment and Personal Income Loss After Traumatic Brain Injury. JAMA Surg. doi:10.1001/jamasurg.2024.4285
- K. Zagrodney, **R. Jaffe** , et. al. A time-to-event model of unplanned workplace absences for home care personal support workers from 2019-2020. *(To be published)*

Teaching Experience

Teaching Assistant *Department of Statistical Sciences*

09/2021 - 05/2023

Toronto, ON Univeristy of Toronto

- A TA for 'Introduction to Statistics' in Winter 2022, Fall 2022, and Winter 2023.
- Led discussion/tutorial groups weekly, assisted with office hours, and marked problem sets and final exams.

Teaching Assistant *Department of Human Biology*

01/2022 - 05/2023

Toronto, ON Univeristy of Toronto

- A TA for 'Introduction to Global Health' in Winter 2022 and Winter 2023.
- Guided students to complete tutorial exercises, assisted with office hours, and marked projects, case reports, and final exams.

Awards & Recognitions

Canadian Institute of Health Research (CIHR)
Canada Graduate Scholarship-Master's

2022-2023

- Value: \$17,500 CAD over 1 year

Canadian Statistical Sciences Institute
(CANSSI) Ontario Data Access Grant

2022

- Value: \$5,000 CAD

Canadian Women's National Team *Water Polo*

2021–present

- Currently receiving support from AAP Sport Canada at the Senior level

Skills

- R, Rstudio, R Shiny
- Python - Pandas, AWS, Matplotlib
- SQL (Proc SQL), SAS, STATA
- Tableau, Microsoft BI
- Microsoft Office products
- ArcGIS, GIS