

JOSHUA RUF

Econometrics | Machine Learning | Data Visualization

<https://joshua-ruf.github.io/>

github.com/joshua-ruf

[linkedin.com/in/joshua-ruf-b97938199](https://www.linkedin.com/in/joshua-ruf-b97938199)



ABOUT ME

Experienced data scientist, versed in machine learning and statistical modeling for business intelligence. I enjoy cracking tough problems, automating repetitive tasks, and finding creative ways to visualize data. In all my work, I am looking to be challenged, learn, and make an impact.

EXPERIENCE

Data Scientist

Tarifica

July 2019 – present

New York, NY

- Lead data science team that supports clients' projects; manage in-house Jira and BitBucket, as well as multiple databases
- Trained a linear model to spot aggressive consumer mobile plans and optimize client price offerings; deployed model to web application with interactive visualizations
- Built an application that sends Slack notifications when competitors launch new promotions in real time
- Designed a new ETL pipeline in Python, improving data quality and reducing manual checks

Medical Economics Analyst

Centene Corporation

Dec. 2018 – July 2019

New York, NY

- Automated data reporting across the department using R
- Produced interactive data dashboards to summarize and forecast health care utilization trends
- Created an **R package** that standardized quantitative practices

Associate Research Scientist

Institute of Human Development and Social Change (NYU)

Aug. 2018 – Nov. 2018

New York, NY

- Lead a quantitative analysis of school-based interventions' impact on adolescent smoking rates
- Presented the **study's findings** at the 2019 Society for Research on Educational Effectiveness conference

Statistician

Health Economic Research Unit (BCCfE)

Jan. 2018 – Aug. 2018

Vancouver, BC

- Conducted cost-effectiveness analyses of substance use disorder interventions; ran Markov Models and Monte Carlo simulations in R
- Worked with a diverse team of statisticians, healthcare professionals, and government officials

EDUCATION

M.A. in Economics

University of British Columbia

Class of 2018

Vancouver, BC

B.A.Sc. in Arts & Science and Economics

McMaster University

Class of 2017

Hamilton, ON

TECHNICAL SKILLS

- **Python:** numpy, pandas, sklearn, statsmodels, PyTorch, geopandas
- **R:** tidyverse, data.table, caret
- **Data Visualization:** ggplot2, Plotly, D3.js, Mapbox
- **SQL:** MySQL, Postgres, sqlite
- **NoSQL:** Redis, Memcached
- **Cloud Computing:** AWS (EC2, Elasticbeanstalk, RDS, S3, DynamoDB), Azure (ML Studio, Cognitive Services)
- **Web Development:** HTML, JavaScript, Selenium, Flask, BeautifulSoup
- **Git, UNIX, cron, and Docker**
- **MATLAB and Stata**

AWARDS

SSHRC Canada Graduate Scholarship
Valued at \$17,500 (2017)

McMaster Student Research Award
Valued at \$6,000 (2015)

INTERESTS

Ultimate Frisbee

Vegan Cooking

Open Source Computing

Travel

Algorithmic Art

Camping

Board Games

Cycling