

MATTHEW EDWARDS

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[Website](#) | [Linkedin](#) | [GitHub](#)

EDUCATION

Master of Science in Statistics

Sep 2020- May 2021

University of Toronto

Toronto, ON

- Includes PhD sequences in Mathematical and Applied Statistics
- Includes 3 CS courses in AI/Machine Learning

Master of Arts in Economics

Aug 2017- Aug 2018

Bachelor of Arts (Honors) in Economics, Minor in Statistics

Sep 2013- Apr 2017

Queen's University

Kingston, ON

- Graduated with Distinction
- Honors Dean's List, 2013-17

EXPERIENCE

Teaching Assistant

Sep 2020- May 2021

University of Toronto, CS/Stats Departments

Toronto, ON

- Teaching python (pandas, numpy, matplotlib, scikitlearn, nltk, scipy) and version control (Git, Github, Bash) to undergraduate Data Science specialists
- Creating and marking assignments on simulation and natural language processing
- Maintaining the Data Science course website

Statistician

Dec 2019- Dec 2020

Study.com

Remote

- Prepared expert solutions to hundreds of practice problems in statistics, CS, and economics
- Colaborated with science editors to prepare answers for publication

Researcher

Aug 2018 - Dec 2019

Employment and Social Development Canada

Gatineau QC

- Built neural nets to extract sentiment from policy initiative documents
- Used natural language processing (topic modelling) to summarize childcare-related news articles
- Wrote R packages to automate geospatial(GIS) data analysis
- Co-created an open-source GIS app showing 90,000 childcare facilities and social-purpose businesses
- Led or co-led over 20 technical presentations to clients and non-specialist audiences

Research and Teaching Assistant

Sep 2020- May 2021

Queen's University, Department of Economics

Kingston, ON

- Assisted on 7 research projects with 5 researchers involving data collection, cleaning and analysis (census archives, customs tables, patents, contracts, travel guides, etc.)
- Tutored undergraduate students on fundamentals of scientific writing and communication

TECHNICAL STRENGTHS

Machine Learning

supervised, unsupervised, and reinforcement Learning, NLP

Python

pandas, numpy, sk-learn, matplotlib, scipy, nltk, tensorflow/keras, pytorch

R/Stan

tidyverse, rstan, hierarchical models, MCMC

Version Control

Git, Bash, Github, Gitlab