

Mark O'Reilly

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SKILLS

MATLAB/Python/R	Predictive Modelling	Data Visualization
MySQL/SQL Server	Classification/Clustering	Science Communication
NumPy, Pandas, Scikit-Learn	Time Series Analysis	Hot Sauce Connoisseur

Work Experience

Decision Resources Group

Mar 2020 - Present

Data Analyst

Toronto, ON

- Create medical device market models to forecast medical procedure and product sales trends
- Utilize SQL, Python, R, and other data science tools to conduct exploratory data analysis of medical claims and hospital purchasing data
- Deliver presentations to executive clients about forecasting methodology and market insights
- Developed clustering algorithm to group countries based on similarity of regional COVID-19 impact and government restrictions, which assisted analysts in forecasting OUS markets with sparse data

Ontario Brain Institute

Sept 2019 – Mar 2020

Neuroinformatics Intern

Toronto, ON

- Assisted in the development of workflows for analytics support management on the Brain-CODE platform to promote industry partnerships, leading to the first instance of platform testing by a portfolio company
- Managed the deidentification of structural neuroimaging data for public release of large public dataset, resulting in a peer-reviewed publication

Brain and Mind Institute – Western University

July 2017 – Aug 2019

Research Associate

London, ON

- Developed signal processing pipeline for neuroimaging data to remove non-biological noise and perform ICA-based clustering of functionally similar brain networks
- Developed algorithm to measure the similarity of neural responses across a group of healthy individuals, to compare similarity of responses in movie-watching against free thought

Center for Addition and Mental Health

May 2016 – Aug 2017

Research Associate

Toronto, ON

- Applied multivariate regression model using neuroimaging data to predict successful executive function task performance in autistic patient group
- Preprocessed neuroimaging data for clinical study investigating effects of novel therapy for patients with autism spectrum disorder

Education

University of Western Ontario - Master of Science, Biomedical Engineering

Aug 2019

University of Guelph - Bachelor of Engineering, Biomedical Engineering

Apr 2017

Volunteering

Science to Business Network - Founding Member/Website Coordinator

July 2019 – May 2020

Thames Valley District School Board - Science Fair Judge

March 2018 – April 2019

Engineers Without Borders - Strategy Teams

July 2014 – Aug 2017