Expert in graph analytics, data analysis, statistics and communication. Passionate about finding meaningful stories in big data.

# Brechann McGoey

Senior Data Scientist

## Experience

**2019-04 - Current**

### Senior Data Scientist

*RBC, Toronto, ON*

- Processing millions of daily events and leveraging graph analytics to track changes in client behavior during COVID
- Building machine learning models to predict help centre calls based on millions of digital interactions
- Developing custom visualizations to elucidate movement of 1M+ clients across channels

**2011-09 - 2018-10**

### Research Assistant

*University of Toronto*

- Used advanced linear algebra methods and Bayesian models to quantify genetic diversity
- Sanitized, performed genome wide data analysis and outlier detection on a 5GB+ genetic dataset

**2017-09 - 2017-11**

### Fellow

*The Data Incubator*

- Completed projects focused on machine learning, web scraping, data wrangling, interactive visualization and distributed computing
- Scraped Goodreads data for 10,000+ books, used NLP to extract genres, themes and sentiments, and leveraged Pandas, NumPy and SKLearn to predict novel success

## Education

**2011-09 - 2018-10**

### Ph.D.: Ecology And Evolutionary Biology

*University Of Toronto*

**2007-09 - 2009-08**

### M.Sc.: Ecology And Evolutionary Biology

*University Of Toronto*

**2003-09 - 2007-06**

### B.Sc.: Biological Sciences

*University Of Guelph*

## Awards and Accomplishments

3 provisional patents, 6 peer reviewed publications, 3 newspaper and magazine articles, 2 teaching awards, 8 conference presentations, best talk award

## Contact

### WWW
www.brechann.com

### LinkedIn
www.linkedin.com/in/ brechann-mcaoev-62018

## Skills

Statistical analysis (Bayesian and frequentist)

Machine learning (Sklearn, TensorFlow)

Data visualization (Bokeh, Altair, Plotly, D3.js)

Graph analysis (NetworkX)

NLP (NLTK)

Spark

Agile

## Languages

Python

R

SQL