# **Brendon Phillips**

LinkedIn | GitHub | Publications

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## DATA SCIENTIST, ANALYST

Over 7 years of experience in data science, modelling and analytics of big data with Python, R, SQL and C++.

Flexible developer and analyst proficient with data visualization, dashboards and machine learning.

## **TECHNICAL SKILLS**

Python : BeautifulSoup, matplotlib, geopandas, nltk, numpy, pandas, prophet, scikit-learn, seaborn,

statsmodels, tensorflow, word2vec

**R** : comprehenr, data.table, dplyr, ggplot2, knitr, orca, plotly, quantreg, reshape2, shiny, stringr, trend

**SQL** : MySQL, BigQuery, DuckDB, PostgreSQL, dbt, ETL/ELT, PL/SQL

**Other tools**: C/C++, Rust, Shell scripting, Fortran, MATLAB, regex, XML, SAS, MS Excel, GCP, Linux CLI **Productivity**: Microsoft Powerpoint, Microsoft Word, Google Slides, Google Docs, LaTeX, Tableau

## PROFESSIONAL EXPERIENCE

Data Analyst 06/2023-Present

Hospital for Sick Children Hybrid - Toronto ON, Canada

Working on a research team to clean and repair medical trial data for statistical analysis and optimize the code review process.

Senior Software Engineer

02/2022 - 02/2023

Liquid Analytics Remote – Toronto ON, Canada

Designed and delivered optimized data mining algorithms that:

assemble complex SQL queries and use NLP and other techniques in Python to analyse and recover features from a large volume
of unstructured data,

- achieve average parsing times of less than 1 millisecond per entity profile over 97% of data without external API calls,
- score the degrees of similarity between entity profiles using Python and upload scores to BigQuery.

Wrote documentation, status reports and updates, and gave regular non-technical presentations to stakeholders.

## **Postdoctoral Fellow (contract)**

05/2021 - 02/2022

York University Hybrid - York, ON, Canada

Modelled and simulated disease transmission dynamics, and evaluated and analysed the effectiveness of interventions including vaccination with behavioural and social responses with regression and numerical analysis.

#### **Postdoctoral Fellow (contract)**

01/2021 - 04/2021

University of British Columbia

Remote - Vancouver BC, Canada

Co-developed software with ApexRMS to use their <u>SyncroSim</u> application to compare and chain together COVID-19 models written in R, Python and C#.

Researcher 09/2015 – 11/2020

University of Waterloo On, Canada

Proposed new techniques useful for quantitative analysis and prediction of epidemics and public health crises in a computational infectious disease model (with social media dynamics) using time series analysis, machine learning (NLP, regression, cluster analysis, etc) and extensive statistical and data analysis.

#### ADDITIONAL TRAINING

• Google Data Analytics Professional Certificate

04/2023

### **EDUCATION**

### Ph.D. Applied Mathematics

University of Waterloo

Waterloo ON, Canada

09/2015 - 12/2020

M.Sc. Mathematics

London ON, Canada 09/2014 - 08/2015

Western University

03/2017 00/2013

**B.Sc. Mathematics** *University of the West Indies* 

Cave Hill, St. Michael, Barbados

09/2011 - 07/2014