Tyler Burleigh

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Data Scientist II

I'm a Senior Data Scientist with 5 years experience in industry (3 in EdTech) and more than 10 years as a Research Scientist studying cognitive and social psychology. I have a deep interest in applying data science to improve decision-making at mission-driven organizations that want to help people and improve society.

SKILLS

Languages	R, Python, SQL
Packages	dplyr, ggplot2, tidymodels, pandas, statsmodels, sklearn, plotly
Tools	Databricks, Snowflake, dbt (ETL), Segment (events), Periscope (BI)
Skills	Causal inference, experiments and quasi-experiments, functional programming, data visualization, statistical modeling and machine learning algorithms (e.g., regressions, decision trees)

EXPERIENCE

Data Scientist / Data Scientist II   **Jun. 2020 — Present**
Prodigy Education   *Oakville, Ontario*

- Supported Educator product teams with the release of new features in the Teacher App, through experiments, metrics, data models, dashboards, and quantitative user research.
- Conducted exploratory quantitative user research to identify new opportunities and inform Educator product roadmaps.
- Provided mentorship to junior Data colleagues through supervision and the development of team processes and best practices.

Data Scientist   **Nov. 2018 — Mar. 2020**
Clover Health   *Jersey City, New Jersey*

- Supported the research, design, and measurement of customer-facing behavioural science campaigns aimed at driving customer retention and improved patient health outcomes.
- Developed algorithms for campaign eligibility and prioritization.
- Designed, analyzed, and interpreted over 25 behavioral science experiments.

Research Scientist   **Jan. 2018 — Nov. 2018**
Datacubed Health   *New York, New York*

- Developed and empirically validated psychometric instruments for the Datacubed mobile app.
- Managed a longitudinal mobile research study with 60 participants.
- Lead the development of an app prototype called "ResQ", which was a finalist in the 2018 Robert Wood Johnson Foundation Opioid Challenge.

Assistant Research Scientist   **Mar. 2017 — Dec. 2017**
New York University   *New York, New York*

- Managed the selection, implementation, and empirical validation of 100+ mobile app-based psychological instruments.

EDUCATION

PhD in Applied Cognitive Science, *University of Guelph*   2017
Awarded the John Vanderkamp Doctoral Graduate Medal as the top student in my cohort

MA in Cognitive Psychology, *Carleton University*   2011

BA in Psychology (Comp. Sci Minor), *Bishop's University*   2009
Awarded the Certificate of Academic Excellence from the CPA

Continuing Education...
- *Tensorflow in Practice, Coursera*   2020
- *Data Scientist with Python, Datacamp*   2019
- *Data Science Specialization, Coursera*   2019

ACTIVITIES

Freelance software development and analytics to support eMERGE Guelph's Home Tune-Up program	2016 — Present
Developed pyMTurkR, an R package to interface with Amazon MTurk's Requester API	Jun. 2019 — Sept. 2019
Board of Directors and Treasurer, Ontario Public Interest Research Group (OPIRG) Guelph	Jun. 2012 — Mar. 2015