

Jason Zheng

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Highlights of Qualifications

Behavioral sciences researcher with 5 years of experience with research design, data analysis, and hypothesis testing. Strengths include clear communication, adaptable, and eager to learn.

Work Experience

Sep 2019 – May 2024

Graduate Researcher

Department of Psychology, University of British Columbia

- Data processing and cleaning: Utilized R and SQL to extract, transform, and load research survey data into a centralized pipeline, reducing time from data collection to analysis and creating a transparent and replicable workflow
- Data visualization: Created dashboards and visualizations using R, RShiny, and Tableau, contributing clear data graphics in reports, presentations, and publications
- Data storage and management: Established an SQLite database to store and manage data on participants over 3 years, improving data operation efficiency and reducing time from data to analysis
- Statistical modeling: Applied rigorous statistical analysis using R to evaluate research questions, delivering research insights in published journals with advanced models such as hierarchical linear modeling, structural equation modeling, and time series analysis
- Research: Translated abstract research questions into testable data designs and deliverable research insights, securing funding from Canada's Tri-agency funding programs and producing publications in top academic journals

Projects

Bank Churn | *Python, Ensemble, Machine Learning, Scikit-Learn*

- **Achieved 88% accuracy** in predicting customer churn for a bank dataset
- Employed a voting classifier that outperformed individual models
- Compared the predictions of Logistic Regression, Random Forest, XGBoost, and LightGBM models

Education

Master of Arts in Psychology

University of British Columbia, Vancouver, BC

Sep 2019 – Sep 2021

Bachelor of Science in Biology

University of British Columbia, Vancouver, BC

Sep 2013 – May 2017

Certificates

Google Advanced Data Analytics

Feb 2024

AWS Fundamentals

Jul 2024

Skills

- Causal inference, mediation, A/B testing, hypothesis testing
- Data analysis, statistical modeling, visualization, regression, ETL, classification
- Proficient in R, Python, tidyverse, SQL; familiar with AWS, Tensorflow, Keras