

MONA ZHU

monazhu.github.io

EDUCATION

- 2024 (Expected)** **Master of Data Science (In Progress)**
University of British Columbia
- Relevant Coursework
- ▶ Databases and Data Retrieval
 - ▶ Supervised and Unsupervised Learning
 - ▶ Statistical Inference and Computation
 - ▶ Data Visualization
- 2020** **PhD, Cognitive Psychology**
University of Waterloo
- ▶ NSERC Graduate Scholarship (CGSD)
 - ▶ Ontario Graduate Scholarship
 - ▶ Michael Smith Foreign Studies Award
- 2016** **MA, Cognitive Psychology**
University of Waterloo
- ▶ NSERC Graduate Scholarship (CGSM)
 - ▶ Ontario Graduate Scholarship
 - ▶ President's Graduate Scholarship
- 2014** **BSc, Biopsychology**
University of British Columbia

TOOLS & SKILLS

Inferential & Statistical Methods

- ▶ (G)LM(M) | Survival analysis

Supervised & Unsupervised ML

- ▶ Sklearn | PyTorch
- ▶ k-means, hierarchical, model-based clustering

Experiment Design & Hypothesis Testing

Technical Writing

Data Analysis

- ▶ R | Python

Data Visualization

- ▶ ggplot | plotly | altair

Biometric Tools

- ▶ VR | Eye-Tracking | GSR

Graphic Design

- ▶ Adobe PS | CSP

RELEVANT EXPERIENCE

Associate, BEworks

2020 – 2023

Led and supported **15+** consulting projects in both public and private sectors to provide evidence-based recommendations on client challenges

- ▶ Managed and built strong relationships with key project stakeholders, delivering **\$400k+** in consulting services
- ▶ Leveraged expertise in behavioural science and the scientific literature to diagnose and understand business challenges
- ▶ Conducted statistical analysis; generated data visualization and insights for **10+** surveys and field experiments
- ▶ Crafted impactful narratives using primary and secondary research and translated findings into solutions and strategic recommendations in **30+** presentations, workshops, and reports

Research Scientist, BAR Lab, UBC

Sept – Nov 2020

- ▶ Developed an approach to examine and validate individual differences in eye and head movement using model-based clustering
- ▶ Created clear documentation of analyses and procedures on GitHub, and delivered key findings using intuitive data visualization

Research Intern, BEworks

Nov 2019 – Mar 2020

- ▶ Conducted extensive scientific literature review to assess self-reported and behavioural predictors of job success across a variety of job roles
- ▶ Constructed and validated behavioural tasks and psychometric scales that predicted job success to help inform hiring decisions

Visiting Researcher, University of Hawai'i

Jan – Apr 2019

- ▶ Performed statistical analysis on behavioural datasets using linear mixed-effects model, spatial statistics, and hierarchical clustering
- ▶ Designed and programmed a VR experiment using UE4 to examine spatial organization and search behaviour

Research Scientist, CaNB Lab, UWaterloo

2014 – 2020

- ▶ Tailored the use of mixed methodology (e.g., experiments, scale development, archival data, etc) to address novel research questions across 10+ studies in both naturalistic and controlled lab settings
- ▶ Conducted quantitative data analysis (e.g., statistical hypothesis testing, linear and logistic regression, etc) and translated research insights into **5** empirical research papers and **10+** scientific conference presentations
- ▶ Delivered tutorials and workshops to different audiences on programming and statistical methods (e.g., descriptive and inferential statistics, data analysis and cleaning using R, Bayesian statistics, etc)

