Leo Huang

📞 +1 647-300-4977 | ✉ leo.huang4977@gmail.com | in leo-huang-870ab2178

EDUCATION

University of Toronto	Toronto, ON
Ph.D. in Social Psychology	Expected December 2025

• Award: Ontario Graduate Scholarship

University of Toronto	Toronto, ON
M.A., Psychology	Class of 2022

• Thesis: The "Unhealthy" Racist

Queen's University	Kingston, ON
H.B.Sc, Kinesiology	Class of 2020

• Awards: Queen's Excellence Scholarship, Heard/McFarlane Award, Clark Family Award

WORK EXPERIENCE

Data Scientist	Mar 2024 – Present
Besample	Wilmington, DE

- Evaluated surveys on the platform to optimize strategies to distinguish high-quality respondents from low-quality ones. Expanded existing evaluation metrics from **3 to over 15** using behavioral metadata.
- Built and launched a **Python** and **PostgreSQL-based automated pipeline** that detects fraudulent, non-human respondents with **97% accuracy** using **generative AI** and **supervised machine learning models** with real time, interactive data visualization dashboards for the customer success department.

Graduate Researcher	Jan 2022 – Present
Decision Neuroscience Lab, University of Toronto	Toronto, ON

- Conducted **two studies** using **machine learning** and **multilevel modeling methods** to predict goal attainment and mood from daily levels of social support, physiological and psychological factors.
- Collaborated with two other researchers to survey **more than 200 people over six months** to build a dataset with **more than 100 psychological measures** to study the intention-behavior gap.
- Developed workshops on using **artificial intelligence** and **large language models** for psychology research and taught them to **over 50 PhD students and professors** across two departments.

Research Assistant	Sep 2020– Dec 2021
McIntosh Lab, Rotman Research Institute	Toronto, ON

- Preprocessed **two multimodal neuroimaging datasets with over 1000 participants** for modeling.
- Enhanced the UK Biobank data processing pipeline by adding a **Quality Control Report** feature, decreased per subject review time from **30 min to 5 min**.

RESEARCH

- Conducted **four** qualitative & quantitative studies to explore how individuals obtain resources, information, and emotional support from their social network.
- Identified **nine social group archetypes** within individual social networks using qualitative methods.
- Results from studies have been accepted for **presentation at the 2024 SPSP Annual Conference** and are pending **two publications**.

SKILLS

- **Programming Languages:** Python, MATLAB, Linux, SQL, R
- **Research:** Literature Review, Qualitative and Quantitative Research Design & Implementation
- **ML/AI:** NLP, Supervise & Unsupervised Classification and Regression, CNN, RNN, Model Optimization, TensorFlow/Keras/PyTorch, Large Language Model Integration
- **Data Science:** Data scrapping, Feature Engineering, PCA, MLM, SEM, PLS, Time Series Forecasting, Graph Theory, Network Analysis, Data Visualization (Tableau, Looker Studio, seaborn, matplotlib, ggplot2)
- **Language:** Native English & Mandarin Chinese speaker