

Ho Wong

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EDUCATION

University of Wisconsin-Madison, Madison, WI

August 2024 - December 2025

M.S. Data Science in Human Behavior

Cumulative GPA: 4.00/4.00

Certificate: Google Advanced Data Analytics – Coursera, 2025

EXPERIENCE

Capstone Project (Industry Partnership) | Carnegie Learning, Remote May 2025 - December 2025

- Built an XGBoost model automating student engagement detection from IMS Caliper Analytics logs (0.639 AUC) and achieved minimal train-test gap through rigorous temporal feature engineering and student-level cross-validation
- Engineered temporal and behavioral features from 19,000+ multimodal records, integrating restricted-use observation data with event-level telemetry via time-based joins
- Communicated model insights and feature importance to stakeholders through interactive Tableau dashboards and a live presentation at DataJam

Capstone Project (Industry Partnership) | American Family Insurance, Remote May 2025 - December 2025

- Architected a multi-source data pipeline integrating restricted-use demographic, insurance, survey, and climate datasets across 16 Florida counties using KNN matching and temporal joins
- Engineered ensemble machine learning models (XGBoost, Random Forest, LMEM) that extracted unbiased feature importance rankings from unsampled data for GenAgent calibration, revealing homeownership as the dominant migration predictor over hurricane severity metrics
- Collaborated with team to design self-supervised prompt optimization pipeline using DSPy and Pydantic that iteratively refined LLM instructions across 200+ optimization cycles

Clinical Research Coordinator | Massachusetts General Hospital, Boston, MA February 2023 - February 2024

- Collaborated with clinical teams to collect and organize data from multiple sources including participant assessments, tracking systems, and follow-up records across intervention studies
- Performed data cleaning and quality control on clinical datasets, identifying inconsistencies and ensuring data integrity for research analysis and reporting
- Managed participant tracking workflows and conducted follow-up with hard-to-reach populations, maintaining organized records to support timely project completion

Research Assistant | Boston College Mind Perception Lab, Boston, MA January 2020 - December 2022

- Designed independent research study collecting primary data across multiple countries, developing data collection methodology to analyze behavioral patterns during COVID-19 pandemic
- Performed statistical analysis in R examining relationships between variables and real-world outcomes, identifying significant patterns through data visualization and structured reports
- Cleaned and analyzed datasets to identify cultural differences in perception patterns, presenting findings to academic stakeholders through reports and visualizations

SKILLS

Python, R, SQL | Statistical Analysis & Experimental Design | Regression & Mixed Models | Machine Learning |
Spark, AWS/GCP | Tableau