

WALKER HUGHES

[Data Science Portfolio](#) 707-484-5478 walkereveretthughes@gmail.com

Education and Motivations

University of San Francisco

2025

M.S. in Data Science, focusing on Machine Learning Engineering

San Francisco, CA

Brigham Young University

2021

B.S. in Computational Mathematics, B.S. in Economics, Minor in Portuguese Studies, 3.82/4.00

Provo, UT

Motivations: Data Scientist seeking roles in San Francisco Bay Area in Machine Learning Engineering and Data Analysis. Skilled in applied mathematics, machine learning, data visualization, and CI/CD.

Skills and Tools: Python (4 years), SQL (2 years), R (1 year), PySpark, Pandas, Numpy, APIs, Docker, Threading

Relevant Coursework: Machine Learning, Linear Algebra, Statistics and Inference, Applied Econometrics, Algorithms and Optimization

Projects

[Deployed App] Idiom.ai: Chatbot Game to Learn Foreign Language Idioms

- Built chatbot with GPT 3.5 Turbo to teach common language expressions in gamified learning experience.
- Utilized efficient prompt engineering to produce json objects containing foreign language idioms, examples of the idioms used in sentences for user context, and multiple choice options for correct semantics.

[Deployed App] Yield Curve Dashboard

- Utilized GitHub Actions to automate CI/CD workflow of interest rate data scraped from US Treasury on daily basis.
- Implemented interactive Streamlit app to analyze yield curve behavior over time from 1990 to present.

[Deployed App] Exploring Chaotic Behavior in Initial Value Problems with the Lorenz Equations

- Created interactive app to investigate how changes to initial conditions can alter the solutions to initial value problems.

Experience

WE Consulting, LLC

October 2023 - Present

Machine Learning Consultant

San Francisco, CA

- Built and deployed RAG application to query PDF documents with GPT 3.5 and LangChain vector stores for law firm client, saving estimated 100+ hours per year in manual research.
- Led development of recommendation model for products on client's online marketplace, improving baseline by +30%.

Addepar

June 2022 - September 2023

Data Solutions Consultant

San Francisco, CA

- Built multiple data pipelines with Python/SQL to ETL financial data sets with millions of rows for new clients onboarding to the Addepar software via internal API.
- Collaborated with Product and Engineering teams to refine the onboarding process for clients' investment data.

Cornerstone Research

August 2021 - June 2022

Data Analyst

San Francisco, CA

- Conducted in-depth economic research for five papers quantifying monetary damages in high-stakes, multi-million dollar commercial litigation cases, leading to favorable settlements.
- Utilized Latent Dirichlet Allocation and Information Retrieval to identify topics discussed in multiple years of marketing copy for one of the first expert reports leveraging NLP in litigation.
- Investigated inflation trends in multi-terabyte database with R/SQL for report on competitive dynamics of online marketplaces during the COVID-19 pandemic.

BYU Departments of Mathematics and Economics

January 2018 - May 2021

ML Research Assistant and Teaching Assistant

Provo, UT

- Conducted image segmentation research on satellite images to estimate wildfire perimeters despite smoke occlusion.
- TA for Econometrics, Machine Learning for Economists, and Macroeconomics courses.
- Advised 75+ students on experiment design, model testing, and feature engineering for econometrics and machine learning projects of their choice.