

Freddie Guo

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WORK EXPERIENCE

Handshake AI

Oct. 2025 – Present

Data Annotation Specialist

Remote

Labeled and evaluated AI-generated images to improve training data quality for computer vision models.

- **Tagged** images by objects, scenes, and visual attributes using internal tools to standardize training datasets.
- **Rated** clarity, realism, and artifacts to identify low-quality model outputs and support model refinement cycles.
- **Ensured** annotation accuracy and consistency by enforcing internal quality and safety guidelines.

Boston University

Jan. 2023 – Dec. 2023

Research Analyst

Boston, MA

Designed and executed econometric studies translating large datasets into insights for urban planning and labor policy.

- Topic: Infrastructure & Housing Valuation (600K+ transactions)
 - Built staggered **Difference-in-Differences** models (event-study style) to quantify price impacts and market elasticity near new subway stations.
 - **Key Results:** Found **+26.5% price appreciation** near stations and **–35.6% decline beyond 3 km**, informing capital allocation, investment and zoning discussions.
- Topic: Education & Labor Supply (543K+ transactions)
 - Engineered and compared 6 regression specifications; **selected optimal model via out-of-sample fit and statistical testing** to ensure forecasting accuracy.
 - **Key Results:** Showed that workers with higher education correlates with longer working hours, informing labor and policy planning.

PROJECT EXPERIENCE

Walmart Sales Analytics

Sep. 2025

Performed end-to-end analysis of Walmart's multi-store retail dataset to uncover revenue patterns and business drivers.

- **Cleaned, merged, and queried** large datasets using **Python** and **SQL**, preparing analysis-ready data for EDA.
- Conducted **exploratory analysis, correlation checks, and time-series visualizations** to evaluate holiday effects, seasonality, regional variation, and long-term sales trends.
- Built dashboards highlighting key insights, including **holiday demand spikes (~8%)**, **December revenue peaks**, and **strong sales concentration** among top-performing stores.

Stack: Python, SQL, Pandas, Matplotlib, GitHub | **GitHub:** github.com/freddieguo/walmart-sales-analysis

EDUCATION

Boston University

Jan. 2025

Bachelor of Arts in Computer Science & Economics

Boston, MA

- Relevant Coursework: Behavioral Economics, Econometrics, Database Systems, Algorithms, Web Development
- Activities: Consulting Group (case practice workshops); BU Wellbeing Committee (student wellness initiatives)

SKILLS & INTERESTS

- **Technologies:** Python, SQL, Excel, Tableau, Power BI, Stata, JavaScript, Next.js, Node.js
- **Tools:** Pandas, NumPy, Matplotlib, VS Code, GitHub, SQLite
- **Skills:** Data Analysis, Financial Modeling, Risk Analysis, Strategic Planning, Operations Optimization
- **Interests:** Badminton, Traveling, Photography, Cooking, Digital Art/Design