

SYLVIA LI

CONTACT



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<https://www.linkedin.com/in/sylvialeyanli/>



<https://github.com/sylvia010402/Sylvia-Data-Portfolio/tree/main>

EDUCATION

Master of Education - Education Policy Analysis

Harvard University
(2024 - 2025)

Bachelor of Arts - Economics

University of Manchester
(2020 - 2023)

CERTIFICATE

MIT Applied data science program

MIT Professional Education
July 2025

SKILL

Programming Languages

R, Python, SQL

Data wrangling and visualization

ggplot, Numpy, Pandas, Seaborn, Tableau

Statistical Methods

Machine Learning, AB Testing, Survey Design

LANGUAGE

English (proficient)

Chinese (proficient)

PORTFOLIO PROJECT

Online Learning Retention Analysis

HarvardX-MITx MOOC Learner Certification Study

- Analyzed behavioral patterns of 260,000+ learners to uncover predictors of course completion, providing ed-tech teams with evidence-based retention strategies.
- Build machine learning models to identify key predictors for course certification, with high model performance (F1 score: 0.73), summarized in clear visuals for the platform teams to guide interventions and improve user experience.
- Discovered that learner engagement (e.g., login frequency) outperformed demographic factors in predicting success, shifting platform focus toward modifiable user behaviors.

Education Funding Equity Analysis

Multilevel Modeling with NCES & SEDA Dataset

- Conducted multilevel modeling across 10,000+ U.S. school districts to examine how SES and per-pupil spending intersect to shape student achievement.
- Identified key interaction effects between district wealth and funding efficacy, guiding more nuanced interpretations of investment equity in K-12 policy.
- Summarized findings in a final report to support grant strategy, district decision-making, and academic publication.

WORK EXPERIENCE

Program Manager – MetaAI EdTech Evaluation)

Sustainable Living Lab (SL2) | Singapore (Remote) | 01/2025 – 05/2025

- Co-led multi-country evaluations of an AI-powered education platform across Singapore, India, and Indonesia, coordinating data collection from 60+ students and teachers to inform product development strategy
- Designed and deployed Qualtrics-based user feedback instruments, analyzing engagement data and learning outcome metrics to uncover key usage trends and inform future program design
- Delivered findings into quantitative insights and presented to international product and curriculum teams, shaping the platform's expansion roadmap and ensuring culturally responsive design

Research Assistant – Data Analyst

Hebei Provincial Department of Urban Development | China | 09/2023 – 06/2024

- Analyzed 5,000+ rows of fiscal data using SQL and R, identifying investment patterns that increased regional visitor engagement by 15%
- Engineered a reproducible data pipeline to clean, standardize, and visualize municipal funding and revenue data, enabling policy teams to model ¥50 million in budget allocations with greater transparency
- Translated quantitative analysis into briefings and dashboards for government leaders, for strategic investment and urban development planning