Xiang Liang
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Education

University of Illinois Chicago (UIC) – Chicago, IL
Master of Public Administration (Concentration: Civic Analytics)
Expected Graduation: May 2026

University of Minnesota– Minneapolis, MN
Bachelor of Statical Science
Graduated: May 2025

Professional Summary

Graduate student in Civic Analytics with experience in strategic management, data analysis, and civic technology applications. Skilled in R, Python, for quantitative research and data visualization. Adept at connecting data insights with real-world public sector challenges, including transportation equity and urban policy evaluation. Passionate about applying data-driven approaches to improve organizational effectiveness and community outcomes.

Academic & Research Projects

Field Research Project – Chicago Transit Authority (CTA)
Graduate Capstone, UIC – 2025

- Conducted organizational analysis focusing on strategic planning, funding sustainability, and performance measurement.
- Developed a comprehensive SWOT and stakeholder analysis to identify CTA's strengths and fiscal challenges.
- Collaborated with CTA staff to assess alignment between mission, goals, and service equity outcomes.

IPUMS CPS Data Analysis – UIC Data Management & Analysis Course
Fall 2025

- Cleaned and analyzed national labor and income data using R (tidyverse, haven).
- Performed descriptive and inferential statistical analyses to explore relationships between family income, housing status, and demographic variables.

- Produced reproducible R Markdown reports summarizing key findings and visualizations.

Apple Quality Classification Using Logistic Regression and Sparse PCA
Independent Data Science Project – 2024

- Built a logistic regression model with SPCA for feature reduction and quality classification.
- Evaluated model performance through confusion matrices, ROC curves, and cross-validation.
- Integrated machine learning workflow using R (elasticnet, caret).

Technical Skills

- **Programming & Analysis:** R, Python,
- **Libraries/Tools:** tidyverse, ggplot2, pandas, NumPy, scikit-learn, Tableau
- **Methods:** Regression modeling, hypothesis testing, data visualization
- **Other:** Strategic planning, civic data interpretation, public policy evaluation

Languages

English (fluent) | Mandarin Chinese (native)