

# ENRICO MADANI

1414 E 59th St, Chicago, IL — (708) 953-0869 — [enrico@uchicago.edu](mailto:enrico@uchicago.edu) — [github.com/Enrico-Madani1](https://github.com/Enrico-Madani1)

## EDUCATION

### University of Chicago

Chicago, Illinois

Bachelor of Science in Data Science; Bachelor of Arts in Economics

Expected Jun 2027

- GPA: 3.91/4.00 — Dean's List (2023–24); Odyssey Scholar
- Relevant Coursework: Statistical Methods, Machine Learning, Linear Algebra, Calculus III, Economics

### Pradita Dirgantara High School

Boyolali, Indonesia

Science Track Diploma

Jul 2019–Jun 2022

- GPA: 97.25/100 — Silver Medalist, Hong Kong International Mathematical Olympiad (HKIMO) 2021

## EXPERIENCE

### Urbanism Lab, University of Chicago

Chicago, Illinois

Research Assistant (Prof. Emily Talen)

Sep 2024–Present

- Led end-to-end development of computer vision pipeline to analyze 12,000+ housing images, enabling clearer insights for urban policy teams assessing neighborhood development patterns.
- Conducted quantitative analysis linking housing typologies to socioeconomic factors across 200+ census tracts, identifying patterns that informed urban planning and resource allocation strategies.
- Labeled and managed data collection workflow using Google Street View API and coordinated with cross-functional research team to ensure data quality and project milestone delivery.

### Center for Spatial Data Science, University of Chicago

Chicago, Illinois

Research Intern

Jun 2025–Aug 2025

- Designed and deployed an AI chatbot evaluation tool that iteratively improved research quality through automated scoring and structured feedback mechanisms.
- Collaborated with faculty to define evaluation criteria and success metrics; implemented guardrail mechanisms for AI that increased research rigor and causal clarity across 50+ student projects.
- Synthesized user feedback and performance data to refine chatbot algorithms, ensuring alignment with academic standards and user needs.

### Summer Institute in Social Science Research Method, University of Chicago

Chicago, Illinois

Research Fellow

May 2024–Sep 2024

- Built a machine learning pipeline to transform historical Sanborn maps into 3D-ready contour outputs, accelerating archival data processing for research partners.
- Analyzed infrastructure and socioeconomic patterns across 900+ Illinois streets using spatial clustering techniques.
- Created standardized OpenStreetMap dataset with comprehensive documentation to improve reproducibility and data accessibility across research teams.

## LEADERSHIP & ACTIVITIES

### PERMIAS (Indonesian Students Association) Chicago

Chicago, Illinois

Design and Marketing Manager

Aug 2023–May 2025

- Drove 10% increase in Instagram engagement through data-driven content strategy, analyzing performance metrics to optimize posting schedules and content mix; grew follower base by 50+ within three months.
- Managed multi-channel marketing campaigns for 15+ cultural events with 500+ total attendees, coordinating cross-functional teams and ensuring consistent brand messaging across platforms.

### Actuarial Science Quest UGM

Yogyakarta, Indonesia

Secretarial Division Staff

Sep 2022–Dec 2022

- Streamlined registration operations for 200+ participants from across Indonesia, implementing data validation processes that improved event logistics efficiency.
- Collaborated with 5-person team to design data-driven event management strategies, enhancing participant experience and operational workflow across semi-final and final competition rounds.

## ADDITIONAL EXPERIENCE

### University of Chicago

Chicago, Illinois

Research Member, DATA 11900 Final Project

Jan 2024–Mar 2024

- Built regression models analyzing socioeconomic predictors of international education outcomes
- Identified regional patterns using clustering techniques to inform policy recommendations.

## SKILLS & INTERESTS

**Technical:** Python (NumPy, Pandas, Scikit-learn), R, SQL, Excel (MOS Certified), Machine Learning, Statistical Modeling, Data Visualization, Spatial Analysis (QGIS, GeoDa)

**Languages:** English (Fluent), Indonesian (Native)

**Interests:** Spatial data science, machine learning, urban research, data-driven strategy, economic development