ZHIYUAN ZHOU

✉ zhiyuanzhou23@gmail.com   🔗 https://zhiyuanzhou.netlify.app/   ⌂ ZY-ZHOU23

Summary

Data-driven analyst with MPP and Econ/Data Science training, applying ML, geospatial methods, and causal inference to policy challenges. Translate complex data into calibrated models, agency-ready tools, and evidence-based insights that scale equitable, cost-effective solutions.

Education

University of California, Los Angeles   Sep 2021 – June 2025
Economics & Statistics and Data Science | GPA 3.8/4.0 | Dean's Honors List

- **Coursework:** Computational Statistics, Databases, Econometrics, Finance, Economic Growth

University of Chicago   Sep 2025 – June 2027
Master of Public Policy in Data Science   (expected)

Experience

Data Science Intern   *Boston, US*
Russ Wilcox Consulting   June 2025 – Sep 2025

- **Public-sector partnerships**: Partnered with municipal/state stakeholders to deliver evidence-based resource prioritization; built a longitudinal administrative dataset and 1 deployable, documented pipeline across 2 languages (R/Python) with rigorous evaluation and policy handoff.
- **Calibrated propensity modeling**: Designed temporally cross-validated LightGBM propensity models with class-imbalance weighting and Platt calibration; quantified uncertainty via bootstrap and monitored AUC, PR-AUC, logloss, Brier, and ECE to inform operational thresholds.
- **Geospatial analytics**: Engineered neighborhood/facility-scale GIS pipeline (sf/geosphere/Overpass/folium) deriving distance-to-site, density, clustering, and exposure context across 5 feature domains; produced interactive maps and jurisdiction-wide summaries for decision support.

Energy Research Intern   *Beijing, China*
PICC Capital Insurance Asset Management   June 2024 – Sep 2024

- **ESG wind analysis**: Built an ESG-aligned wind power framework and multi-country, 10+ years dataset to quantify deployment, LCOE, and technology roadmaps; delivered evidence-based insights for investment screens consistent with data-driven, scalable clean-energy policy goals.
- **Policy/regulatory synthesis**: Structured onshore/offshore policy into 3 domains (incentives, siting/permitting, grid integration); reviewed dozens of national/local measures and mapped impacts on cost, pace, and bankability.
- **Stakeholder communications**: Co-authored a wind sector brief with domestic/global market sizing and scenario charts; built tables/visuals and briefed decision makers.

Risk Analytics Intern   *Beijing, China*
Minsheng Wealth Management   June 2023 – Aug 2023

- **Risk Review**: Implemented Delta-Normal and Monte Carlo VaR at 95/99% with backtesting and exception tracking; delivered dashboards for portfolio reviews.
- **SQL data engineering**: Built MySQL schemas and ETL for product/risk data, and created parameterized queries/views/indexes to support daily runs and ad-hoc analysis.

Skills

Modeling & Analytics: Python, R, Excel, Tableau

Data Platforms & Dev: MySQL, Firebase/Firestore, Pinecone, Git

Soft Skills: Project Management, Team Coordination, Communication, Adaptability

Languages: Fluent in English & Mandarin