

Sharif Amlani

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CONTACT

Portfolio: sharifamlani.com
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SKILLS

PROGRAMMING

Advanced | Instructor
 R • Python
 Intermediate
 SQL • Excel • Qualtrics
 Familiar:
 STATA • Tableau

GENERATIVE AI

LangChain • LangGraph
 MCP • RAG
 OpenAI API • Anthropic API
 Agentic Workflows
 Prompt Engineering

METHODOLOGY

Database Creation
 Database Management
 Regression Analysis
 • OLS, MLE, & GLM
 Causal Inference
 • Experiments
 • Matching
 • Difference-in-Difference
 • Regression Discontinuity
 Experimental Methods
 • Conjoint
 • A/B
 Survey Methodology
 Survey Design
 Social Network Analysis
 Machine Learning
 Measurement & Scaling
 Duration Modeling

EDUCATION

UC DAVIS

PH.D. POLITICAL SCIENCE

June 2023 | Davis, CA

American Politics | Congress | Elections
 Money In Politics | Vote-By-Mail Policy

UNIVERSITY OF NEW MEXICO

B.A. POLITICAL SCIENCE

December 2015 | Albuquerque, NM
Summa Cum Laude

QUANTITATIVE AND AI RESEARCHER

I am the founder and CEO of **HumanAI Ventures**, building agentic AI for survey research and political consulting, and an Adjunct Assistant Professor at **UC Center Sacramento**. Previously I led generative AI product development at **Moody's Analytics**. **UC Davis PhD** with publications in elections, polarization, and campaign finance.

RESEARCH & SKILLS EXPERIENCE

DATA COLLECTION & CLEANING

- **Data Collection:** Created database of presidential, senatorial, and gubernatorial county-level election returns from 1872 to 2020; Created database of California's ballot proposition committees, donors, and contributions from DIME and CA SOS's website.
- **Original Survey Design:** Created, administered, collected, and cleaned data from two surveys through Qualtrics on *political partisanship* (N = 2.3K) and *COVID-19* (N = 4.3K)
- **Database Management:** Created database of campaign finance contributions records from 13 million records.
- **Data Generation:** Webscraped data on California ballot proposition campaigns, state legislators, election data, news articles from LexisNexis, and party coalitions online.

DATA ANALYSIS

- **Descriptive Analysis:** Displayed evidence of *egocentric COVID-19 vaccine discussion networks*.
- **Regression Analysis:** Proficient in OLS & MLE.
- **Experimental Methods:** Conducted a conjoint experiment and A/B testing on political partisans and their dislike of each other.
- **Causal Inference:** Used a difference-in-difference design to investigate whether making voting by mail easier increased turnout and affected presidential vote shares in the 2020 election; Leveraged exogenous shock (redistricting) to analyze the effects of money on House members' behavior.
- **Social Network Analysis:** Built U.S. House cosponsorship networks and campaign finance multiplex networks.
- **Measurement:** Generated ideological placements of U.S. House Members, their constituents, and their donors; Used Bayesian Aldrich-McKelvey Scaling to place multiple political parties and respondents onto a unidimensional scale.
- **Machine Learning:** Used random forest algorithm to *predict congressional election outcomes* and impute missing data.
- **Text Analysis:** Worked with text data to recover sentiment and emotion, including survey respondents' *one-word and open-ended data*.

DATA EXPLANATION & CURATION

- **R mentor** for political science undergraduate honors students.
- **Instructor** for UC Center Sacramento's R Workshop (5 times).
- **Presented quantitative research** at academic conferences (UC Davis, MPSA & WPSA).

AI ENGINEERING

- **Agentic Workflows:** Deployed agentic AI that autonomously analyze survey data, cutting 25-hour workflows to 10 minutes; built synthetic respondents simulating human responses at ~85% accuracy.
- **Enterprise AI:** Led genAI product development at Moody's Analytics; deployed agents reducing credit-risk workflows from 3 days to 3 minutes for clients with \$1T+ valuation.

DELIVERABLES

1. Amlani, Sharif, R Butters, and S Kiesel. "Analysis | With Nearly 800,000 U.S. Covid Deaths, What's Keeping People from Getting Vaccinated? Their Own Social Circles." *Washington Post*, December 14, 2021.
2. Amlani, Sharif & Samuel Collitt (2021). "The Impact of Vote-By-Mail Policy on Turnout and Vote Share in the 2020 Election." *Election Law Journal*.
3. Amlani, Sharif & Carlos Algara. "Partisanship & Nationalization in American Elections: Evidence from Presidential, Senatorial, & Gubernatorial Elections in the U.S. Counties, 1872–2020." *Electoral Studies* 73 (October 1, 2021): 102387.