

Sharif Amlani, PhD

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SUMMARY

Data scientist and GenAI engineer — PhD-trained in causal inference, experimental design, and statistical modeling, and shipping agentic AI systems in production. As CTO of HumanAI Ventures I built Survey Fluency, a multi-agent platform (LangChain, LangGraph, RAG, tool use) that turns raw survey files into topline, cross-tabs, regressions, and client-ready decks, collapsing a 25-hour analyst workflow into 10 minutes. Previously led generative AI product development at Moody's Analytics, shipping client-facing credit-risk agents that cut 3-day workflows to 3 minutes for enterprise clients holding more than \$1T in combined valuation. UC Davis PhD with five peer-reviewed publications in causal inference, survey methodology, and elections, two national surveys fielded (N = 2,300 and N = 4,300), and research databases of 13M+ records. Advanced in Python, R, and SQL, and used to working directly with clients and stakeholders to turn a business problem into a deployed solution.

WORK EXPERIENCE

UC Center Sacramento (University of California)

Sacramento, CA

Adjunct Assistant Professor

2026 – Present

- **Design and teach POL 196E: Research Methods for Political Science and Public Policy** — research design, causal inference, measurement, analysis in R, and data visualization. Students ship an original research project presented at the UCCS Undergraduate Research Showcase.
- **Student mentorship** — advise undergraduates one-on-one through their term-long research projects (question formulation, data collection, analysis, writing, and poster presentation).

HumanAI (Survey Fluency)

Sacramento, CA

Chief Technology Officer

2025 – Present

- **Survey Fluency (flagship product)** — building an AI-powered survey analysis platform that automates topline, cross-tabs, executive summaries, and PowerPoint generation from raw survey data, reducing 25-hour manual workflows to 10 minutes.
- **Agentic AI workflows** — designed and deployed LangChain and LangGraph pipelines using Claude and OpenAI APIs to autonomously plan, execute, and critique statistical analyses with 95% accuracy.
- **Production engineering** — built and deployed backend API on Google Cloud Provider with Docker, CI/CD, FastAPI, and Supabase authentication.
- **Customer development** — conducting discovery with political pollsters and market research firms. Managing active design-partner pilots with KL Communications, Beacon Research, and C+R Research.
- **Synthetic Respondents** — developed AI digital-twin research using LLM/ML to predict survey response distributions across demographic subgroups.
- **SkyDeck Pad-13** — selected as founder for UC Berkeley's Pad-13 incubator program (acceptance rate ~3%).

Moody's Analytics

San Francisco, CA

Assistant Director of Research, Commercial Mortgage Metrics platform

2023 – 2025

- **Performance recognition** — rated as **exceptional** by colleagues and manager for performance and contributions.
- **Generative AI product leadership** — led generative AI product development for the Commercial Mortgage Metrics (CMM) platform, building AI agents for commercial real estate credit risk analysis.
- **AI agents shipped** — developed and deployed the Run CMM Agent, CMM Reporting Agent, and Red

Flag Agent to automate credit risk workflows, outsourcing manual analyst work to AI.

- **Pipelines and integrations** — built API integrations and standardized reporting processes for commercial mortgage data processing using Python and R, reducing workloads from 3 days to 3 minutes.
- **Enterprise deployment** — translated advanced quantitative methods into production-grade enterprise data and modeling products used by more than 20 clients whose valuations exceed \$1 trillion.

University of California, Davis

PhD Researcher, Political Science

Davis, CA

2016 – 2023

- Built and managed research databases at scale: **13M+ campaign-finance contribution records** (Stanford DIME), county-level presidential, senatorial, and gubernatorial returns from **1872–2020** (published on Harvard Dataverse), and California ballot-proposition donor data webscraped from the CA Secretary of State.
- Applied **causal inference and quasi-experimental methods** — difference-in-differences, regression discontinuity, matching — to estimate the turnout and vote-share effects of vote-by-mail policy in the 2020 election, and used redistricting as an exogenous shock to identify the effect of money on Congressional behavior.
- Designed and fielded **two national surveys (N = 2,300 and N = 4,300)** with conjoint and A/B experiments. Analyzed results with random forests, Bayesian Aldrich–McKelvey scaling, social-network analysis, and text/sentiment analysis.
- Taught R and quantitative methods across **16+ teaching appointments**. Mentored honors undergraduates through original research.

TECHNICAL SKILLS

GenAI: AI agents and multi-agent systems, LangChain, LangGraph, RAG, MCP, OpenAI and Anthropic APIs, prompt engineering, agentic workflows, LLM evaluation, synthetic respondents

Data Science: Machine learning and predictive modeling (random forests, classification, regression), statistical modeling (OLS/MLE/GLM), causal inference (difference-in-differences, regression discontinuity, matching), experimental design (conjoint, A/B testing), survey methodology and design, measurement and scaling, duration modeling, social network analysis, text and sentiment analysis

Programming & Cloud: Python, R, SQL, STATA, Git/GitHub, FastAPI, Streamlit, Docker, GCP, AWS, Azure, CI/CD, Supabase, Tableau, Qualtrics, ggplot2/Plotly/Matplotlib

EDUCATION

PhD in Political Science, University of California, Davis, 2023

B.A. in Political Science, *summa cum laude*, University of New Mexico, 2015

Pad-13 Startup Accelerator, UC Berkeley SkyDeck, 2026 — selected cohort, ~3% acceptance

SELECTED PUBLICATIONS

Kiesel, S. & **Amlani, S.** (2025). "Affective Polarization in a Word: Open-Ended and Self-Coded Evaluations of Partisan Affect." *PLOS ONE*.

Amlani, S., Kiesel, S., & Butters, R. (2023). "Polarization in COVID-19 Vaccine Discussion Networks." *American Politics Research* — **featured in [The Washington Post](#)**.

Algara, C., **Amlani, S.**, Collitt, S., Hale, I., & Kazemian, S. (2022). "Nail in the Coffin or Lifeline? Evaluating the Electoral Impact of COVID-19 on President Trump in the 2020 Election." *Political Behavior*.

Amlani, S. & Collitt, S. (2021). "The Impact of Vote-By-Mail Policy on Turnout and Vote Share in the 2020 Election." *Election Law Journal*.

Amlani, S. & Algara, C. (2021). "Partisanship & Nationalization in American Elections: Evidence from Presidential, Senatorial, & Gubernatorial Elections in the U.S. Counties, 1872–2020." *Electoral Studies* — **featured in [The Economist](#) and [The New York Times](#)**.