Francine Stephens

Data Storyteller | Geospatial Data Scientist | PhD Candidate

Ph.D. candidate with a passion for data analysis and creatively presenting insights. Seeking to transition into a data scientist/analyst role where I can leverage my technical communication skills and collaborate with other analysts, developers, and non-technical business partners.

EDUCATION

Ph.D. in Sociology	August 2023
M.A. in Sociology	May 2019

Stanford University, Stanford, CA

- Awards: Cilker Award for Teaching Excellence

B.A. in Sociology with Distinction	May 2017

University of Pennsylvania, Philadelphia, PA

- Awards: *summa cum laude*, Phi Beta Kappa, Benjamin Franklin Scholar

WORK EXPERIENCE

Research Scientist   June 2021 – May 2022

Intuit | People Analytics Research Team, Remote

- Invented scalable web-data extraction process for new employee listening channel to inform C-level executives of tech-employee sentiment at Intuit and five competitor companies each monthly.
- Owned end-to-end analysis and dashboard reporting process for the weekly work-from-home employee survey to inform return-to-workplace teams of employee concerns about work-from-home and returning to the office.
- Evaluated state of manager capacity and impacts of recent manager development initiative for bi-annual talent development report using regression analysis and matched-pairs hypothesis testing.

GIS/Spatial Data Analyst   August 2020 – December 2020

Texas Democratic Party | Tech & Data Team, Remote

- Owned daily polling place web-extraction and analysis for Texas' 254 counties during early and election day voting to steer poll-watcher allocation and advocacy for additional polling places.
- Analyzed top-of-ticket vote trends across counties by urbanicity for retrospective memo on successes and weaknesses in 2020 voter turnout.

ACADEMIC EXPERIENCE

Research/Teaching Assistant   June 2018 – December 2022

Stanford Department of Sociology, Stanford, CA

- Advised on research design for faculty-led projects with geographic data.
- Performed spatial fixed-effects panel regressions and spatial diffusion analyses for faculty projects with spatial data.
- Communicated technical concepts in introductory research design and data analysis classes of 60 to 80 students.
- Designed tutorials for web-mapping and analysis of spatial data for undergraduates with little-to-no background in statistics or GIS.

CONTACT

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- 🔗 linkedin.com/in/francine-stephens/
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SKILLS

Languages & Software:
- R
- SQL (Big Query, MySQL)
- ESRI ArcGIS Desktop & Online Suite
- Tableau / Qlik / Flex Dashboards
- GitHub / Command Line / SSH
- HTML / CSS / Markdown
- Python (Beginner/Intermediate)

Data Analysis:
- Data Visualization & Cartography
- Linear & Non-Linear Models
- Hypothesis Testing
- Spatial Statistics & Models
- Data Mining (Clustering, Classification)
- NLP Analysis
- Factor Analysis
- Web Scraping

DOMAIN KNOWLEDGE

- Geographies (Census, Parcel, Foot Traffic)
- Demography / Demographic Trends
- Geodemographic Measures / Segments
- Urban Inequality
- Smart Cities and Communities
- Recreation and Leisure

SELECTED PROJECTS

- Story Map of Excelsior Neighborhood
- Tutorials for Web-Mapping & Analysis
- NLP Analysis of Airbnb Listings (ppr | pptx)
- Web Scraping & Analysis of Blind Reviews
- Project Proposal for Smart City Initiative