JOEY MARSHALL

Data Science | Machine Learning | Data Visualization | Public Communication

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SUMMARY

Data scientist and sociologist with a PhD and 7+ years of experience in machine learning, high performance computing, and public communication. Media-trained spokesperson with experience communicating to the public, media, and both technical and non-technical audiences.

EXPERIENCE

Founder | Fractional Lead Data Scientist

Plot Points. LLC

🛱 2024 - Present Remote | Washington, D.C.

- Provide data science consulting services, specializing in machine learning, geospatial analysis, and data visualization
- Develop tailored data solutions for clients, including predictive modeling, demographic analysis, survey research, and custom dashboards
- Train, deploy and maintain machine learning models in production environments in **AWS**
- · Maintain production-scale database, ETL and data pipeline services
- Advise organizations on leveraging data to drive strategic decisions, streamline operations, and enhance customer insights
- Create geospatial analyses and interactive maps to support clients' operational planning and market analysis
- Build and maintain client relationships through proactive communication, project transparency, and a commitment to understanding and achieving business goals

Data Scientist

U.S. Census Bureau

🗰 2020 - Present Remote | Washington, D.C.

- Developed Python and R packages for internal and external data users
- Led internal workshops and boot camps for learning and using R
- Created and led a new research initiative to analyze driving routes to critical infrastructure in the immediate aftermath of natural disasters
- Deployed as a Census Liaison to FEMA's National Response Coordination Center in support of Hurricanes Idalia (2023), Helene (2024) and Milton (2024)
- Built a probabilistic record linkage engine to support interagency research on U.S. retail health clinics
- Traveled internationally and domestically, including with Director of the Census Bureau, to meet with elected officials, data professionals and members of the public
- Authored and coauthored written research deliverables and public-facing interactive dashboards on topics such as Covid-19 vaccination, teleworking, economic hardship, and sexual orientation and gender identity

Senior Principal, Quantitative Analytics and Data Science

Gartner

苗 2019 - 2020 👂 Arlington, VA

- Led start-to-finish data collection and analysis for four survey research projects
- Awarded "Rookie of the Year" and recognized with an award for "Quantitative Thought Leadership"
- Led a multidisciplinary, cross-national team through all aspects of the survey research process including questionnaire design, field collection (in coordination with survey vendors), data analysis and dissemination

Research Associate

Pew Research Center

= 2017 - 2019 Washington, D.C.

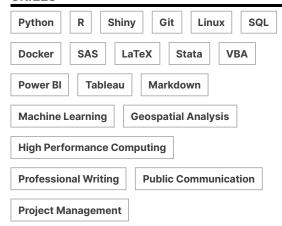
- · Analyzed survey data and population demographic data from multiple data assets to conduct analyses of global trends for the religious demography research team
- Authored and coauthored public-facing short reads and full-length research reports
- Communicated results to the public via conference presentations and media interviews (radio, podcast and print media)

Research Assistant

Purdue University

- Served as Editorial Assistant and Editorial Manager for the Review of Religion and Chinese Society (Brill)
- Analyzed geospatial data on religion in China and prepared maps for the Atlas of Religion in China: Social and Geographical Contexts (Brill, 2018)
- Created and distributed the monthly newsletter for Purdue's Center on Religion and Chinese Society
- Produced and hosted a monthly audio interview series with guest scholars to support the newsletter

SKILLS



EDUCATION

PhD Sociology

Purdue University

Recipient: National Science Foundation Graduate Research Fellowship (NSF-GRFP)

MS Sociology

Purdue University

· Recipient: Frederick N. Andrews Fellowship

BS Sociology

University of Texas at Tyler

• Summa Cum Laude

RECENT PUBLICATIONS

Hurricane Helene's Impact on the Socially Vulnerable in North Carolina

U.S. Census Bureau

Joey Marshall, Chase Sawyer, Heather King, Bethany DeSalvo. Walter Peacock

益 2024

https://www.census.gov/library/stories/2024/10/hurricanehelene.html

Who Commuted on Baltimore's Key Bridge?

U.S. Census Bureau

Joey Marshall, Abraham Cheung, Bethany DeSalvo, Chase Sawyer, Heather King, Isabelle Notter

= 2024

https://www.census.gov/library/stories/2024/05/keybridge-commuters.html

Income Inequality Linked to Social Vulnerability to Disasters

U.S. Census Bureau

Chase Sawver and Joev Marshall

https://www.census.gov/library/stories/2024/02/cre-forequity.html

Methodology on Creating the U.S. Linked Retail Health Clinic (LiRHC) Database

U.S. Census Bureau

Alice Zawacki, Joey Marshall, Donald Cherry, Xianghua Yin, and Brian W. Ward

= 2024

https://www.census.gov/library/workingpapers/2023/adrm/CES-WP-23-10.html