Allison Morgan

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SUMMARY

Senior data scientist with 5+ years of experience seeking opportunities to generate data-driven and actionable insights with machine learning and causal inference.

Skills: Statistics and machine learning (scipy, pandas, scikit-learn, statsmodels), data storytelling through visualization and dashboards (matplotlib, Looker), data engineering (git, SQL, dagster, dbt), clear and intuitive written and verbal communication for broad audiences

Awards: Published in PNAS, Science Advances, Nature Human Behavior, Covered by Forbes, Slate, Washington Post

EMPLOYMENT

Code for America

Senior Data Scientist   *January 2023 - Present*

- **Evaluating Trust**: Used survival models and A/B testing to unpack how texting reminders helped 50K SNAP recipients re-gain access to food stamps by nudging them to renew early [Press]. Evaluated and presented work to internal and external stakeholders, in collaboration with qualitative research and service design.
- **Streamlining Client Processes**: Evaluated a new process for automatically renewing Medicaid for over 100K people, using caseworker surveys, causal inference, and a client survey within a randomized experiment [Press]. Simultaneously, quickly delivered actionable recommendations for another state that will impact 80K people.

Twitter

Senior Data Scientist, Data Scientist II   *July 2021 - January 2023*

- **Creating Personas**: Constructed data-driven developer personas that became foundational to understanding satisfaction and improving efficiency of internal tools. Mentored an intern to validate and build upon those personas. Built and maintained dashboards for migrations to surface their value and help prioritize work.

University of Colorado at Boulder

National Science Foundation Graduate Research Fellow, Computer Science Department   *August 2016 - May 2021*

- **Measuring Causal Impact**: Used difference-in-differences to measure researchers' productivity around parenthood. [Paper, Press]. Used matching to show that researchers' current institution is more important than their previous one for future productivity [Paper].
- **Administering Surveys**: Conducted a large representative survey of faculty and used census demographic data to highlight their privileged upbringings [Paper, Press].
- **Using Network Science**: Tested causal hypothesis – hiring acts as a conduit for ideas spreading – using numerical simulations, and investigated the tradeoff of quality and network influence [Paper, Press].

New York Times

Data Science Intern   *Summer 2019*

- **Assessing Fairness**: Worked with interdisciplinary stakeholders to review standard algorithmic fairness criteria. Trained and evaluated custom versus pre-trained word embeddings within an article sentiment classifier.

Lytics (marketing technology start-up)

Data Scientist   *August 2014 - June 2016*

- **Developing ML Models**: Wrote package for anomaly detection in marketing trends in Go [Code, Post]. Built random forest models for predicting visitor's likelihood to churn, and implemented content recommendation.

EDUCATION

University of Colorado at Boulder

Doctor of Philosophy & Master of Science in Computer Science, NSF Fellow   *August 2016 – May 2021*

Reed College

Bachelor of Arts in Physics; Academic Commendations 2012–2014   *August 2010 – May 2014*