

Chad Efaw

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Professional Experience:

West Virginia University

August 2020 - Present

Research Reporting Analyst

- Sole analyst responsible for university-wide reporting on academic research data (awards, protocols, proposals)
- Developed more efficient and logically rigorous processes for research reporting data
- Deeply involved in data governance, data security, rules, and regulations
- Acted as a BA: gathered specifications, and solved analytic problems in SQL, R, MongoDB

City of Pittsburgh, Bureau of Police

October 2017 - August 2020

Crime Analyst

- Performed an analysis of disparities in arrests and citations for marijuana by race and place; changed policy
- Developed, tested and validated NLP models on incident text to identify victims of violent crime
- Used R, Python and bash scripting to automate ETL processes for external agencies and stakeholders
- Created and maintained visualization dashboards for command staff and supervisors

Special Project: Pittsburgh Task Force on Public Algorithms

January 2020 - May 2020

- Deeply involved in determining ethical dynamics of algorithms in policing, crime statistics
- Performed extensive literature review on algorithmic accountability, policing, crime, public health and ethics

MARC USA

October 2016 - September 2017

Data Analyst

- Wrote code in R to develop a Shiny dashboard detailing custom multi-touch attribution results
- Created features and performed k-means clustering on transactional data to segment retail customers
- Created features and performed logistic regression analysis on transactional data to predict customer churn
- Developed ETL pipeline for pulling Google DoubleClick data and pushing to a cloud-based MySQL RDS
- Performed a time-series clustering analysis to segment locations into test and control groups for a media test
 - Mapped locational data using leaflet for test design
- Forecasted pull-ahead demand on transactional data using ARIMA and linear regression
- Scraped, manipulated and presented digital and traditional media data (DoubleClick, AdWords, Social Media)

Maher & Maher, LLC; U.S. Department of Labor

October 2015 - October 2016

Analyst

- Wrote code in R to calculate a fixed-effects panel regression model to determine and set targets for states
 - Created animated choropleths in R to visualize change in state targets over time
- Developed interactive data dashboards in tableau to visualize workforce data for WIOA 2014
- Performed quality analysis on resource transition as Tech Admin for launch of WorkforceGPS.org

Performance Associate

February 2015 - September 2015

- Implemented the statistical adjustment model for the Workforce Innovation and Opportunity Act of 2014
- Wrote scripts in R and SPSS to scrape, collect and manipulate unemployment, industrial and economic data
- Developed regression models (OLS, probit) to predict and set performance targets for State and Local areas

Education:

Lehigh University

May 2014

Bachelors of Arts in Economics; Minor in Political Science

West Virginia University

Candidate, Masters of Public Administration

Expected Fall 2024

Candidate, Graduate Certificate in GIS and Spatial Analysis

Expected Fall 2024