

Mohamed Shedeed

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LinkedIn

SKILLS

Languages	R, Python, SQL, Stata, SPSS
Packages	R - dplyr, ggplot2, tidyverse, glmnet, caret, e1071, stringr, arabicstemr, quanteda, preText, tabulizer; Python - pandas, sklearn, beautifulsoup4, matplotlib, seaborn
Communication	English (native), Arabic (MSA - advanced-mid level), Arabic (Jordanian dialect - working proficiency)
Tools	RStudio, Visual Studio Code, Jupyter Notebook, Google Collab, \LaTeX
Techniques	Inferential and predictive modeling; linear regression and GLMs; machine learning (Penalized Regression, SVMs); web-scraping; visualization; data analysis; data mining; Natural Language Processing (NLP)

EDUCATION

PhD in Political Science , <i>The Ohio State University</i>	expected 2025
<i>Specializations in Comparative Politics and Research Methodology</i>	
MA in Political Science , <i>The Ohio State University</i>	2022
BS; BA in International Relations; Economics , <i>Seton Hall University</i>	2020

SELECTED PROJECTS

Establishing Surname-Tribe Associations in Jordan (Data Collection for Dissertation) <i>The Ohio State University</i>	2022 - present
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- **Objective:** Develop local demographic estimates from Jordanian voter registries using constrained optimization.
- **Data Collection:**
 - Used `beautifulsoup4` Python library to extract user-level data (>49,000 individuals) from an Arabic social media platform
 - Condensed user-level data to produce insights into tribes' geographic distributions and develop a preliminary list of surname-tribe affiliations

Predicting Arizona Drought Severity (Course Group Project) <i>The Ohio State University</i>	Spring 2023
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- **Objective:** Use Generalized Additive Models to predict US Drought Monitor measures of drought severity in Arizona
- **Data Collection:** Collaborated with an Engineering PhD student to collect gridded time series data on precipitation and reconstruct PDSI, SPI, and SPEI indices

Evaluating Conceptual Consistency in Measures of Democracy (Course Project) <i>The Ohio State University</i>	Spring 2022
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- **Objective:** Assess the extent to which quantitative changes in Freedom House's (FH) political rights scores reflected qualitative changes in the organization's expert reports
- **Data Collection and Estimation:**
 - Used `httr` and `stringr` R libraries to extract and pre-process reports from the FH website across nearly 200 countries
 - Used term-category association and topic modeling to construct dictionaries of terms associated with liberalism, populism, and autocracy
 - Used linear regression and supervised learning to assess the consistency in FH's measurement strategy by modeling the influence changes in the usage of key terms had on changes in a country's civil liberties score

Economic and Political Life in Yemen's Civil War (Research Assistant) <i>Seton Hall University</i>	2019 - 2020
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- Managed project budget to meet all billing and reporting requirements specified by external donor (GIZ)
- Collaborated with GIZ and Yemeni partner organization to organize a project development workshop in Amman, Jordan
- Assisted in the development of an original survey instrument and provided a preliminary analysis of the survey data

WORK EXPERIENCE

Graduate Teaching Associate <i>The Ohio State University</i>	2021 — Present <i>Columbus, Ohio</i>
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- Courses: Generalized Linear Models (Graduate); Introduction to Probability Theory (Graduate)
- Teaching Responsibilities:
 - Organized and led recitation sessions for first-year PhD students, including training in data analytics and visualization in R
 - Communicated complex statistical concepts to students from a wide range of backgrounds, some of whom had little to no prior quantitative training