

# JUSTIN NAPOLITANO

Open source intelligence specialist proficient with Python, SAS, and SPSS. Experienced in feature extraction, integrating data, and visualizing data for peer reviewed academic papers.



## CONTACT

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## SKILL TREE

### Programming

Python  
Bash  
C  
HTML/CSS  
LaTeX  
Markdown  
reStructuredText  
Go  
Javascript  
Scala



### Software & Tools

Jupyter  
Sphinx Documentation  
Git/GH  
Docker  
Vim  
Metasploit Framework  
Nmap  
K8s  
pyTest



### Data Handling and Analysis

Pandas  
Statsmodels  
SAS  
Matplotlib  
PySpark  
Networkx  
TensorFlow/Keras



### Database

JanusGraph/Gremlin  
Neo4j  
SQL



### Languages

English  
Spanish  
French  
Cantonese



## EXPERIENCE

### Application Developer

BTJN, LLC

May 2021 — Present

Houston, Texas

- **Data Mining:** Developed Python application to mine greater than 250,000 sales leads.
- **Data Transformation:** Transformed records to client's data format with PySpark.
- **Data Warehousing:** Stored historical data in Neo4j warehouse.
- **Sales Forecasting:** Modeled retail sales with Statsmodels API.

### Author/Project Leader

University of Central Florida

Jan 2017 — Aug 2019

Orlando, Florida

- **Data Visualization:** Visualized P.O.L.E graph with Matplotlib.
- **Feature Extraction:** Standardized project's feature extraction methodology.
- **Inferential Statistics:** Identified features correlated with increased event probability.
- **Project Management:** Trained team members to query databases and collect data points.

### Research Assistant

University of Central Florida

Jan 2017 — Jan 2018

Orlando, Florida

- **Data Management:** Managed team data aggregation, verification, and storage procedures.
- **Data Verification:** ANOVA tested human scoring against automated scoring.
- **Sentiment Analysis:** Automated sentiment analysis of sentences with Python NTLK.

## EDUCATION

### Bachelor Political Science

University of Central Florida

Aug 2018

Orlando, Florida

## CERTIFICATES

### Python Specialization

University of Michigan

May 2020

Coursera

## PROJECTS

### Journal.Jnapolitano.io

Nov 2021 — Present

- **Commercial Research:** Identifying structural factors influencing international trade.
- **Metadata Mining:** Extracting features from the Library of Congress API.
- **Tensorflow Behavioral Prediction:** Predicting Supreme Court outcomes with TensorFlow.
- **Python Tools:** Releasing Python tools to interface with Neo4j, JanusGraph, and Google APIs.
- **Static Web Site Generation:** Creating websites with Sphinx and the Jupyter Book.

## PUBLICATIONS

### Turkish Kurdish Analysis Database

📖 *Peace Economics, Peace Science and Public Policy* vol 25, no. 4, pp. 36

👤 Demet Mousseau, *Justin Napolitano*, Alex Olson

📅 2019

🔗 DOI

## COMPETENCIES

Legal Research	Python Development	Sales Forecasting	Behavioral Analysis
Feature Extraction	Socioeconomic Research	Project Management	Inferential Statistics
Sentiment Analysis	Data Visualization	Economic Modeling	Ethnographic Research