

Matthew Feliciano



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Professional Summary

Accomplished data scientist with extensive experience in data analysis to drive effective decision-making. Expertise in using Python, PySpark, R Programming, HTML, CSS, and JavaScript to drive actionable intelligence for senior policymakers. Proven track record of automation-driven results in fast-paced, deadline-oriented environments.



Education

Master of Science in Information Technology | **University of Massachusetts, Lowell** | Graduation: August 2025

Master of Arts in Geography | **University of California, Santa Barbara** | Graduation: December 2020

Master's Thesis: *Social Media and Crime Perception*

- 2.5 million geotagged social media posts and crime incidents were studied via Python's Natural Language Toolkit with Latent Dirichlet Allocation and a REST API, sentiment analysis packages in R programming, and spatial autocorrelation in ArcGIS Pro to statistically test the efficacy of predictive models for automation by investigating the relationship between the perception of crime and real crime

Bachelor of Science in Geosciences | **The Pennsylvania State University** | Graduation: May 2018

Minor in Geographic Information Systems

Senior Thesis: *ArcGIS Visualization & Analysis of 2014 Chiang Rai, Thailand Seismicity*

- Future risk analyses of subsurface behavior in ArcGIS; developed spatiotemporal geodatabases



Experience

Data Scientist | **Redhorse Corporation**

Full-time | Hybrid | Tampa, FL | February 2024 to Present

- Spatial and temporal analyses of global DoD logistics data in Databricks/PySpark to support executive-level, strategic decision-making and to automate business and warfighting workflows to deliver decision advantage for all CCMDs
- Interactive dashboards in Qlik Sense to drill down into granular, multifaceted data analytics geared towards end users to explore complex transportation data through intuitive visualizations and customized functionalities

Data Scientist | **Clarity Innovations**

Full-time | Hybrid | Tampa, FL | June 2023 to February 2024

- Statistical analyses in Python/NumPy/Pandas and Azure using machine learning algorithms on heterogeneous data sets to develop custom products for the Special Operations Forces enterprise; preprocessing to clean and manipulate open-source data, imputation for missing data, and regularization to mitigate overfitting
- Web pages in HTML, CSS, and JavaScript geared towards customers and allow ease of access to resources

Data Analyst in Targeting and Transnational Issues | **The National Geospatial-Intelligence Agency**

Full-time | Springfield, VA | August 2021 to May 2023

- Quantitative analysis and web scraping in R Programming/Tidyverse, Python/NumPy/Pandas, and SQL of resource issues for temporal stability; ArcGIS and Google Earth Engine for spatial analysis and machine learning

Data Analyst in Targeting and Transnational Issues | **The National Geospatial-Intelligence Agency**

Internships | Springfield, VA | Summers 2017, 2019, 2020

- Web scraping methods in Python, R, SQL and AWS to spearhead a reference catalog of communication devices for dissemination to analysts via visual representations through Tableau; open-source data analysis to brief policymakers



Software & Scripting Skills

- R Programming/Dplyr/Shiny (5 yrs), Git (4 yrs), Python/NumPy/Pandas (4 yrs), SQL (2 yrs), HTML (1 yr), CSS (1 yr), JavaScript (1 yr), PHP (1 yr), PySpark (1 yr), Microsoft Azure (1 yr), AWS (1 yr)



Certifications

- Top Secret/SCI Clearance, Counterintelligence Scope Polygraph
- Front-End Web Development Professional Certificate, World Wide Web Consortium (W3C)

Hobbies

- Surfing longboard on East and West Coast, Tennis Doubles because less running, Dwarf Jade Bonsais