

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, R Programming, HTML, CSS, JavaScript, and ArcGIS to drive actionable intelligence for senior policymakers. Proven track record of automation-driven results in fast-paced, deadline-oriented environments.



Education

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

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

- 200,000 geotagged social media posts and 2,000,000 geotagged 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 investigate the relationship between the perception of crime and real crime and to statistically test the efficacy of predictive models for automation

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 | **Clarity Innovations**

Full-time | Tampa, FL | May 2023 to Present

- Statistical analyses in Python/NumPy/Pandas 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 in R Programming/Tidyverse and Python/NumPy/Pandas of natural resource issues for temporal stability; ArcGIS Pro and Google Earth Engine for spatial analysis/machine learning

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

Internship | Springfield, VA | June to September 2020

- Web scraping methods in Python, R, SQL, and AWS to spearhead a reference catalog for analysts



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)



Certifications

- Top Secret/SCI Clearance (Active until 2027), Counterintelligence Scope Polygraph (Active until 2027)
- Front-End Web Development Professional Certificate, World Wide Web Consortium (W3C)

Hobbies

- Surfing longboard on East and West Coast, Tennis Doubles because less running, F1 Team Checo