

Jordan Frey

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Technical Skills

Computer Languages: R*; Python*; SQL Server*/PostgreSQL (PostGIS)*; HTML; CSS; JavaScript; Java; VBA
Software/Platforms: ArcGIS*; QGIS*; TerrSet*; Excel*; Git; Access; SPSS; Bash/Shell Scripting; AWS EC2

**Asterisks indicate a high level of expertise or proficiency for a given skill.*

Work Experience

Research Assistant

Aug. 2019 – Present

Clark University, Worcester, MA

- Assisting with a study focused on urban resiliency and vulnerability in Florida to environmental perturbations
- Developed *R* and *Python* scripts to clean, geoprocess, visualize, and analyze multivariate geospatial data
- Implementing statistical methods such as *PCA*, *k-means clustering*, *hierarchical clustering*, and *linear regression*
- Produced additional maps and statistics using tools offered in *TerrSet*, *ArcMap*, *QGIS*, and *SPSS*

Geospatial Intern

Jun. 2019 – Aug. 2019

Travelers, Hartford, CT

- Developed a *Python* script to automate the formatting of *ArcGIS Pro* map layouts, alter layer definition queries, and export the maps to PDF
- Developed an *R* script to *web scrape* and geocode data on over 110,000 insurance agencies
- Updated an *ArcGIS Online* web application to contain additional data layers and widgets
- Developed *SQL Server* queries (including spatial queries on geometries) for QA/QC checks

Teaching Assistant: *Geospatial Analysis with R*

Jan. 2019 – May 2019

Clark University, Worcester, MA

- Graded assignments, answered questions, and reinforced concepts in *coding*, *version control*, and *GIS*

Data Science Intern

May 2018 – Jul. 2018

The Intelligence Group, Syracuse, NY

- Developed an *R* script to automate the cleaning of 3.5 million records of relational data
- Developed front-end *Microsoft Access* forms using *SQL* and *VBA*
- Assisted in the formatting of *ArcMap* documents

GIS Intern

Jan. 2017 – May 2017

New York-New Jersey Trail Conference, Mahwah, NJ

- Reviewed and critiqued the design of a new database management system
- *Digitized* and *georeferenced* Trail Conference maps using *ArcMap*

Education

Master of Science in Geographic Information Science

Grad. 2020

Clark University– Worcester, MA – 4.0 GPA

Certificate of Advanced Study in Data Science

Grad. 2018

Syracuse University – Syracuse, NY – 3.8 GPA

Bachelor of Arts in Environmental Studies

Grad. 2015

Ithaca College, 2015 – Ithaca, NY – 3.2 GPA

Portfolio Sample

- Streamlining a GIS workflow with PostGIS: <https://www.freygeospatial.com/blog/streamlining-a-gis-workflow-with-postgis>
- Pansharpening Remotely Sensed Data with R: <https://www.freygeospatial.com/blog/pansharpening-with-r>
- Hosting a PostgreSQL/PostGIS Database on AWS: <https://www.freygeospatial.com/blog/hosting-postgis-on-aws>
- Remote Sensing Wildfire Severity: <https://www.freygeospatial.com/carr-wildfire.html>
- Creating an Animated Time Series Map with R: <https://www.freygeospatial.com/animated-time-series-housing.html>
- Citi Bike (NYC) Rental Data Analysis: <https://www.freygeospatial.com/citi-bike-analysis.html>

Relevant Coursework

Clark University

- Data Structures Spring 2020
- Advanced Raster Modeling & GIS Spring 2020
- Directed Study: Web Mapping with JavaScript Spring 2020
- Directed Study: Working with PostgreSQL/PostGIS Databases Fall 2019
- GIS and Map Comparison Fall 2019
- Innovations in Earth Observation Fall 2019
- Advanced Vector GIS Spring 2019
- Computer Programming for GIS Spring 2019
- Web Mapping and Open Source GIS Spring 2019
- Introduction to Remote Sensing Fall 2018
- Intermediate Quantitative Methods in Geography Fall 2018
- Introduction to Geographic Information Systems Fall 2018

Syracuse University

- Data Mining Spring 2018
- Information Visualization Spring 2018
- Metadata Spring 2018
- Applied Data Science Fall 2017
- Data Administration Concepts and Database Management Fall 2017

Ithaca College

- Technical Writing Fall 2014

Professional Development

Udemy.com e-Learning

- Python A-Z: Python for Data Science Jan. 2020
- Core Spatial Data Analysis: Introductory GIS with R and QGIS Apr. 2018
- R Programming: Advanced Analytics in R for Data Science Feb. 2018
- R Programming A-Z: R for Data Science Nov. 2017