ADRIAN F. FERRAR

E: aferrar90@gmail.com **W:** https://aferrar.github.io/ **P:** 917-622-8525

A competent geospatial analyst and developer with a solid foundation in GIS, programming, and professional asset management. Experience solving complex geospatial problems, automating processes involving large datasets, and collaborating with various stakeholders on citywide initiatives. Seeking a challenging technical role with opportunities for further growth.

EDUCATION

Hunter College: Geography Dept. **Graduated May 2018**
Master of Science in Geoinformatics

The City College of New York: Earth & Atmospheric Science Dept. **Graduated May 2014**
Bachelor of Science in Geology, Minor in Economics

RELEVANT COURSEWORK

- Quantitative Methods in Geography
- Advanced GeoVisualization
- GeoComputation II
- GeoComputation I
- GeoWeb Services
- Remote Sensing of Environment
- Urban Applications of GIS
- Seminar in Geoinformatics
- Database Modeling
- Advanced GIS

TECHNICAL KNOWLEDGE

Operating Systems: Windows, Linux
Development Environments: Visual Studio Code, Jupyter Lab/Notebook
Languages: HTML, CSS, JavaScript, Python, R, SQL
Databases: PostgreSQL, Microsoft SQL Server
Version Control: Git
APIs, Software and Libraries: Google Maps, ArcGIS Pro/Map/Catalog, ArcGIS Online, ArcGIS for Developers, ArcPy, QGIS, Cessium, Leaflet, RStudio, CartoDB, Tableau, Docker

PROFESSIONAL EXPERIENCE

NYC Department of Transportation **January 2017 – Present**
55 Water Street. Manhattan, NY
College Aide

Working under Asset Management division, tasked with maintaining various geodatabases with python scripts to automate regularly modifying tasks in large datasets. Also maintained various MS Access DBs.

- Increased office workflow efficiency by developing automated scripts for updating File Geodatabases and SDE server repository records for street assets.
- Contributed to the development of a citywide predictive Street Deterioration Model using R, SQL, and Python.
- Managed the analysis of historical commitments for all DOT bridge, street, and facility assets seeking to spatialize and evaluate funding patterns within various political boundaries.
- Led the collection and digitization of all NYC street ownership records. Worked in collaboration with Department of City Planning and the respective City Borough President's Topography Departments. Developed QA process for evaluating digitization metrics.

New York Restoration Project **May 2016 – October 2016**

255 Liberty Avenue. Brooklyn, NY
AmeriCorps Environmental Steward

Environmental steward involved in fostering community environment and maintaining garden asset responsibilities in areas of Brownsville, Brooklyn.

- Urban community cleaning, restoration, and beautification of open spaces throughout New York City.
- Participated in and planned outreach events, volunteer field projects, and provided technical support and training to community gardeners.

Atlas Environmental Lab **August 2015 - December 2015**

255 W. 36th St. New York, NY
Environmental Laboratory Analyst

Laboratory researcher involved with examination of potential asbestos containing materials (ACMs).

- Analyzed bulk and airborne filter samples using stereo, phase-contrast, and polarized-light microscopy.
- Prepared paint, soil, dust wipe, and composited wipe samples for environmental lead analysis via Atomic Absorption Spectroscopy (AAS).

Telepathy **September 2014 - August 2015**

68 Jay St. Brooklyn, NY
Programming Intern

Personal assistant to independent programmer. Aided in development of mobile applications.

- Tested, debugged, and modified small-scale iOS and Android applications.
- Served as an administrative assistant and managed online social media engagement.

The City College of New York **January 2013 – May 2014**

160 Convent Avenue New York, NY 10031
Undergraduate Research Assistant

Undergraduate researcher tasked with the design and implementation of experiments studying interactions between virus, bacteria, and clay particulates.

- Examined changes in clay structure because of interactions with biological materials.
- Maintained and supervised laboratory protocols for proper equipment maintenance and biohazard removal.

CERTIFICATIONS

- Penn State University - Graduate certification in Sustainability, Management and Policy
- Local Law 87: Energy Audits & Retro-Commissioning (USGBC-NY Online Webinar)
- Local Law 88: Lighting Upgrades & Sub-Metering (USGBC-NY Online Webinar)
- 40 Hr OSHA Hazardous Waste Operations & Emergency Response (HAZWOPER)
- 8 Hr. OSHA Hazardous Site Worker Annual Refresher
- NIOSH 582 Equivalency Course

REFERENCES

References Available Upon Request