

ADRIAN F. FERRAR
210 West 10th St., #6G
New York, NY 10014
Aferrar90@gmail.com | [Aferrar.github.io](https://github.com/Aferrar)
212-633-9383 | 917-622-8525

EDUCATION

Hunter College: Geography Department

Expected Grad. Spring 2018

Master of Science in Geoinformatics

Penn State University: Renewable Energy and Sustainability Systems

Expected Grad. Spring 2018

Master of Professional Studies in Sustainability, Management, and Policy

The City College of New York: Earth and Atmospheric Science Department.

Graduated May 2014

Bachelor of Science in Geology, Cum Laude. Minor in Economics

RELEVANT COURSEWORK

- Geoweb Services
- Fundamental Atmospheric Science
- Groundwater Hydrology
- Renewable Energy & Non-market Enterprise
- Sustainability Driven Innovation
- Geographic Information Systems
- Biomass Energy Systems
- Database Modeling
- Technologies for Sustainability Systems
- Applied Energy Policy

CERTIFICATIONS

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

PROFESSIONAL EXPERIENCE

College Aide

January 2017 – Present

NYC Department of Transportation

55 Water Street. Manhattan, NY

Currently working with Department of City Planning and Borough President's Offices to acquire and digitize all street title records for the 5 NYC boroughs. Aided in development of internal web mapping system for maintaining asset records using Leaflet and Mapbox.

AmeriCorps Environmental Steward

May 2016 – October 2016

New York Restoration Project

255 Liberty Avenue. Brooklyn, NY

Environmental steward involved in fostering environmental stewardship and community responsibility in Brownsville, Brooklyn. Essential functions include urban community cleaning, restoration, and beautification of open spaces throughout New York City. Participate in and plan outreach events, volunteer field projects, and provide technical support and training to community gardeners.

Environmental Laboratory Analyst

August 2015 - December 2015

Atlas Environmental Lab

255 W. 36th St. New York, NY

Laboratory researcher involved with examination of potential asbestos containing materials (ACMs) through the analysis of bulk and airborne filter samples using stereo, phase-contrast, and polarized-light microscopy.

Programming Intern

September 2014 - August 2015

Telepathy

68 Jay St. Brooklyn, NY

Personal assistant to independent programmer. Aided in development of Android and iOS applications. Primary role was as a debugger. Secondary roles included administrative assistance and online social media management.

TECHNICAL SKILLS

Operating Systems

Windows Vista, 7, 8, 10

Ubuntu

Software

ArcGIS Desktop: (ArcGIS Pro, ArcMap 10.4, ArcCatalog, 10.4, ArcPy), QGIS, AutoCAD, Microsoft Office (Word, Excel, Powerpoint, Outlook),

Programming Knowledge

HTML5, CSS3, Javascript, JQuery, SQL, Python 3, Leaflet, Google Maps API, Bash Unix Shell

VOLUNTEER WORK

Lowline Lab Team Ambassador

January 2016 - Present

140 Essex St. New York, NY

Welcomed guests, answered questions related to the exhibit and future endeavors, engaged in customer sales and marketing.

RESEARCH EXPERIENCE

Undergraduate Research Assistant

January 2013 – May 2014

Department of Earth and Atmospheric Sciences, City College of New York

Faculty Advisor - Dr. Karin Block

Designed and conducted experiments studying interaction of virus, bacteria, and clays. Studied changes in clay structure due to interactions with biological materials. Maintained and supervised laboratory protocols and equipment.

LABORATORY SKILLS

- Proficient in clay mineral preparation, removal of silica, organics, and oxides and centrifugation for clay size fractionation and cation exchange.
- Proficient in the growth of *Pseudomonas Syringae* bacteria, including dilution, preparation of medium and cultivation in sterile environment
- Proficient in the growth of *Pseudomonas* phage $\Phi 6$ virus, cultivation, dilution and gradient purification
- Proficient in phase contrast and fluorescence microscopy for characterization of bacteria, clay, and bio-film.
- Capable of operating Phase-Contrast & Polarized-light Microscope, UV-VIS Spectrometer, and Ion Chromatography

ACADEMIC HONORS

Summer Study Abroad Scholarship

June 2013 – July 2013

Roehampton University, London, England

Received full scholarship for a six-week academic program focused on current issues in financial services within the context of accounting, economics, and law. Issues included: derivatives, U.S. housing market, the debt market, Barclays Bank involvement with LIBOR scandal, and various approaches toward regulation.