

Steven Aarons

Queens, NY

EDUCATION

CUNY Hunter College

Bachelor of the Arts, Environmental Studies, Spatial Data Science Certificate

New York, NY

Overall GPA: 3.75, Conferral December 2025

Vassar College

Bachelor of the Arts, Environmental Studies

Poughkeepsie, NY

Overall GPA: 3.82, Transferred August 2023

EXPERIENCE

NYC Department of City Planning – Environmental Assessment and Review Division

New York, NY

Air Quality and Noise Intern

June 2025 – August 2025

- Created 3 automated Air Quality HVAC screening tools that analyze site data, create symbolized map layers, and generate Excel reports, transforming a multi-day manual process into a 30-minute automated workflow.
- Created two versions of a Construction Noise Analysis tool that processes multiple CSV files to calculate noise values, automatically outputting formatted Excel files and generating map layers.
- Developed a Python GUI application to convert Excel sheets to .csv files in a given output folder to accelerate exporting.
- Gained an understanding of the CEQR Technical Manual.

National Science Foundation Research Experience for Undergraduates

New York, NY

CUNY CREST Remote Sensing for the Environment

Researcher

May 2024 – June 2025

- Presented research through posters at the American Meteorological Society, American Geophysical Union, City Tech Summer Symposium conferences.
- Won first place in the Environmental Science Section at the Emerging Researchers National conference.
- Developed a data-driven precipitation prediction model using a dual U-net architecture with TensorFlow Keras on Google Collab, leveraging ERA-5 Reanalysis data.
- Gained an understanding of Numerical Weather Prediction models and deep learning with no prior experience.
- Achieved a Receiver Operating Characteristic (ROC) Area Under the Curve (AUC) score of 0.92 for a binary rain/no-rain classification model with a 12-hour lead time.

Rockowitz Writing Center - Hunter College

New York, NY

Front Desk Coordinator

February 2024 – Current

- Managed scheduling for over 50 appointments per week, tracked attendance, and maximized booking capacity by filling open slots with wait-listed students.
- Created a Python GUI to parse and display data from the booking website and email clients who are running late through Azure Graph API, saving time and streamlining training for new coordinators.
- Automated the notification of appointment availability while filtering based on time preferences.

PAST PROJECTS & SKILLS

NYS Mesonet Weather Station Point Interpolation Analysis

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Gaza Damage Proxy Map using Sentinel-1 InSAR — 2024

GIS and Remote Sensing: ArcGIS Pro, QGIS, Google Earth Engine, ENVI

Programming Languages: Python (ArcPy, Pandas, Matplotlib, TensorFlow Keras, PyTorch) SQL (Postgre/PostGIS), R, JavaScript

Data Analysis and Presentation: STELLA Modeling Software, Excel, Word Processing, PowerPoint, Graphic Design

Language & Interests: Russian, Hiking, Landscape Architecture, Volunteer of Hart-to-Hart Community Garden