Lenny Metlitsky

Brooklyn, NY lennymetlitsky.com

EDUCATION

Cornell University, College of Agriculture and Life Sciences *August 2025-Present*

- B.S. in Environmental Engineering; B.S. in Information Science

Stuyvesant High School (SAT: 1580, GPA: 4.0*)* *September 2021-June 2025*

- Stuyvesant Diploma; Highest Honors in Environmental Science; Honors in Computer Science

EXPERIENCE

Climate Change Analyst, New York City College of Technology *January 2025-Present*

- Develop machine learning models that can warn citizens of extreme heat two weeks in advance.
- Monitor and analyze temperature within critical New York City transportation infrastructure using advanced remote sensing, providing vital recommendations for capital projects.

Climate Change Researcher, NASA Climate Change Research Initiative *June 2024-Sep. 2025*

- Developed a machine learning model to monitor, predict, and study changing lake quality and harmful algal blooms from space using satellite raster data and local land use features
- Analyzed and condense over 800,000 predicted points across over 4,000 New York State lakes and 20 years, with all results published on a high-throughput, scaleable, and interactive website.
- Wrote, submitted, and edited multiple published papers in various scientific journals; Lecture and present posters at NASA HQ, AGU, AMS, CUNY CREST, and Prototypes for Humanity.

Data Scientist Intern, Developer, Keeper.ai *July 2023-December 2023*

- Optimized pairing algorithms based on user preferences and self-reported personalities.
- Optimized 20+ reusable UI components for thousands of users leading to a 35% success rate.

ACTIVITIES AND PROJECTS

Water and Tech Subteams Member, Cornell GeoData Group *October 2025-Present*

- Fabricate a buoy for collecting 10,000+ weather and water quality data within Cayuga Lake.
- Combine collected insitu data to finetune industry standard climate models for local watersheds and develop new water quality prediction models using machine learning techniques.

SKILLS

- Geospatial Modeling and Remote Sensing (GIS, Google Earth Engine, Sentinel, Landsat)
- Data Science and Machine Learning (Python, R, Scikit, Numpy, Pandas, Tensorflow, CUDA)
- Website Development and Databases (HTML/CSS, Javascript, SQL, Java, MongoDB, Git)

PUBLICATIONS

- Greene, J. A., **Metlitsky, L**, Levine, A., Foley, E., Henry, M., Azarderakhsh, M., Blake, R. A., & Norouzi, H. (2025). A new perspective on estimating chlorophyll-a concentrations using machine learning and Remote Sensing: A case study of new york state lakes. *Ecological Indicators*, *180*, 114316. https://doi.org/10.1016/j.ecolind.2025.114316