

# Lenny Metlitsky

Brooklyn, NY

[lennymetlitsky.com](http://lennymetlitsky.com)

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## 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, Eco Rising Solutions, NYC College of Technology** January 2025-Present
- Construct an AWS pipeline to train machine learning models to synthesize satellite land surface temperature information for any novel region on Earth, providing crucial high-frequency data.
  - Develop machine learning models that can warn citizens of extreme heat two weeks in advance.
  - Monitor temperature for over 400 NYC transportation infrastructure locations using advanced remote sensing, providing vital recommendations for capital projects dealing with urban heat.
- Climate Change Researcher, NASA Goddard Institute For Space Studies** 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
- Invented new 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

- Undergraduate Assistant, Gerson Watershed Biogeochemistry Lab** January 2026-Present
- Performed GIS analyses on mining ponds across watersheds and estimated geochemical fluxes.
  - Conducted literature review on anthropogenic water bodies and their effects on nutrient cycling.
  - Worked in wet laboratory to sterilize exhausted mercury samples for future use.
- 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>