

# Lucas Papamitsakis

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## Work Experience

### Consolidated Edison, Distribution Engineering Paid Intern

Jun 2023 - Feb 2024

New York, NY

- Worked alongside the System & Program Engineering, Analysis, and Reporting Team to use geographic databases to analyze underground electric structures throughout NYC and Westchester. Team saved \$6,987,600 of unnecessary inspections from field crews and ensured that electric structures safely coexist with the NYC community.
- Gained valuable skills in team collaboration and gracious professionalism, and honed adeptness in Excel spreadsheets, ArcGIS database systems, and Tableau data visualization.

### Boy Scouts of America, Eagle Scout and Assistant Senior Patrol Leader

Sep 2017 - Jun 2024

Brooklyn, NY

- Preparing weekly hands-on wilderness survival lessons for Troop 715, including fire-building techniques, first-aid training, and knot-tying lessons for 30 Boy Scouts.
- Led a group of 25+ Boy Scouts and volunteers to beautify a garden-bed area of Owl's Head Park, removing weeds, planting new flowers, and installing a new fence. Fundraised materials worth over \$3,000 for the project.

## Research Experience

### Weston Research Scholars Program

Jun 2021 - Jun 2024

Brooklyn, NY

- Built conceptual foundation of Machine Learning under mentorship of Brooklyn Tech alumnus. Presented a research project that trained Machine Learning models on socioeconomic data to analyze patterns in global well-being.
- Developed Deep Learning project that utilizes multi-modal classification and ensemble learning to predict cancerous skin lesions.

### Stevens Institute of Technology, Dr. Yu Gan Deep Learning Lab Intern

Jun 2022 - Jan 2023

Hoboken, NJ

- Collected thousands of images of coronary arteries using OCT scans. Labeled and classified data using the ImageJ program.
- Utilized Pytorch and TensorFlow libraries to build, train, and deploy novel Deep Learning classification and segmentation models that accurately detected calcification in coronary arteries.

## Education

### Yale College | Mathematics Major

Aug 2024 - May 2028

New Haven, CT

### Brooklyn Technical High School | Applied Mathematics Major

Sep 2020 - June 2024

Brooklyn, NY

- **GPA:** 103.20/100.00 — Ranked within top 10 out of 1,400 in graduating class based on GPA.
- **Awards:** 2024 Junior Science and Humanities Symposium NYC Regional Finalist (First Place), 2023 Terra NYC STEM Fair Finalist (Second Place), U.S. Agency for International Development Science Champion Award, Milo Kessler '21 Math Major Fellowship, BTHS Applied Mathematics Major Gold Medal, Robert S. Soloff '56 Engineering and Physics Grant, NHS Outstanding Leadership Award, AP Scholar with Distinction, NYS Scholarship for Academic Excellence, Posse Scholarship Finalist, 2024 National Merit Scholarship Winner.
- **Activities:** FRC Robotics Team 334 Lead Programmer, Secretary and Senior Officer of Brooklyn Tech National Honor Society (NHS), President of Mu Alpha Theta Math Honor Society, PSAL Varsity Tennis and Indoor Track Teams.
- **Relevant Coursework:** Multivariable Calculus, Linear Algebra, AP Statistics, AP Calculus BC, Graph Theory, Number Theory, AP Physics C, AP Physics 1, AP Computer Science Principles, AP Macroeconomics, Math Research with Python, CUNY New York City College of Technology STEM Research Academy.