

Katherine (Katia) Krishtopa
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EDUCATION

Cornell University, College of Engineering, Ithaca, NY Expected May 2028
Bachelor of Arts, Engineering
Minor, Economics
GPA: 3.29/4.00

The Pingry School, Basking Ridge, NJ May 2024
High School Diploma
GPA: 3.98/4.00

Columbia Science Honors Program, Columbia University, NY, NY May 2024
Selective Program (10% acceptance) focused on math and science.
GPA: N/A

EXPERIENCE

Cornell Student Assembly, Ithaca, NY May 2025 - Current
College of Engineering Representative

- Representing approximately 3,000 undergraduate College of Engineering students. Responsible for examining student concerns, advocating for engineering needs, working with committees to draft and pass school-wide resolutions, and making proposals to University decision-makers.

Engineering Leadership Certification, Ithaca, NY May 2025 - Current
Selected Student

- Selected for a year-long Selander Center program developing leadership, teamwork, and professional communication through intensive coursework, retreats, and project-based learning. Program earns a transcript designation.

AquaClara Cornell, Ithaca, NY Dec 2024 - Current
Research Scientist

- Member of research team aimed to provide clean water for over 100,000 people in low income regions of Central America and India. Part of FLOC Filtration subteam and RaFT subteam.

Provost Research Internship Program, NJIT, Newark, NJ June 2022 - Current
Intern, Researcher

- Worked with the research group of Professor J. Meegoda (New Jersey Institute of Technology) on a 2 Million dollar AirForce Project on the degradation of PFAS (per- and polyfluoroalkyl substances) in water using sonochemical and nanobubble techniques.

STEM in Place, Warren, NJ June 2021 - August 2024
Vice President, Math Course Creator, Chemistry and Math Online Instructor

- The organization provides free, interactive classes over Zoom for 3,100 students. Created and taught a week-long Competitive Math course for middle school students. Founded merit-based scholarship.

Belleayre Mountain, Highmount, NY 2021 - 2024 (Seasonal)
Ski Instructor

- PSIA (Professional Ski Instructors of America) certified Level 1 instructor. Employed by Olympic Regional Development Authority. Worked weekend season-long program.

REWARDS, HONORS & CERTIFICATIONS

Civic Award - Governor's Stem Scholars, New Jersey

2023 Scholar

- One of the selected 128 NJ high school students. Participated in a current research project to establish the correlations between U.S. regions and pediatric health (mental and physical). Published a 23-page paper and presented the project in symposium. Won Civic Award

Bloomberg Spreadsheet Analysis Certification - 2025

Bloomberg Market Concepts Certification - 2024

Bloomberg Environmental Social Governance Certification - 2024

Pingry School Year End Honor Roll - 2020-2021, 2021-2022, 2022-23, 2023-24

President's Volunteer Service Award - Gold (2023), Silver (2022)

PUBLICATIONS

Study of Formation and Stability of Bulk Argon Nanobubbles, Pingry Community Research Journal, (Fall 2023)

https://issuu.com/thepingryschool1861/docs/pcr_fall_2023_final_2

The Physical, Mental, and Socioeconomic Health of Children in the U.S. by Major Geographical Region: 2019-2020, (2023 Governor's Stem Scholars Research Showcase),

<https://online.flippingbook.com/view/313602110/>, (submitted to be published in JAMA Pediatrics Journal, Fall 2025)

Protein Purification of Shigella Dysenteriae Transcription Factor VirF, Pingry Community Research Journal (Spring 2023), https://issuu.com/thepingryschool1861/docs/pcr_spring2023_final2

The Sonochemical Degradation of PFOA and PFOS, Pingry Community Research Journal (Fall 2022), https://issuu.com/thepingryschool1861/docs/fall_pcr2022final

A Review of PFAS Destruction Technologies, International Journal of Environmental Research and Public Health (Acknowledged for Contribution) (Summer 2022),

<https://www.mdpi.com/1660-4601/19/24/16397>

The Effect of KIF11 Activity on YAP Localization, Pingry Community Research Journal (Spring 2022), https://issuu.com/thepingryschool1861/docs/pcr_spring_2022/34

SKILLS & INTERESTS

Problem Solving • Excel • Web Design • Teamwork • Research • Microeconomics • Data Analysis