

# Benjamin Li

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## EDUCATION

- Cornell University Ithaca, NY  
Expected Dec 2028  
*B.A. in Computer Science; GPA: 4.00*

## EXPERIENCE

- Cornell Computational Imaging Lab Ithaca, NY  
Oct 2025 – Present  
*Undergraduate Researcher*
  - Developing uncertainty quantification approaches for inverse imaging problems
  - Worked with machine learning models using conformal prediction frameworks and variational inference
  - Contributed to new uncertainty bound calibration method (under review ICLR 2026), independent research project in Spring 2026
- Regeneron Pharmaceuticals Tarrytown, NY  
Jun 2025 – Aug 2025  
*Quantum Computing Intern*
  - Built open-source quantum optimization code for protein–ligand docking with implications for more rapid drug development
  - Presented and discussed work with multiple internal Regeneron + IBM research team members, advised by the Chief Data Officer of the Regeneron Genetics Center
- New Jersey Academy of Sciences Remote  
Mar 2025 – May 2025  
*Software Engineer*
  - Designed and operated a science fair judging program for the New Jersey Academy of Sciences (NJAS)’s research symposium
  - Served approximately 200 students and 80 judges, significantly reducing processing time and error compared to manual verification
- Millburn High School Remote  
Jun 2022 – Jun 2025  
*Independent Student Researcher*
  - Focused on building AI/ML systems for few-shot circumstances, limited computing resources and data quality
  - E.g. predicting human-infecting viruses with genomic sequences, detecting toxin-producing cyanobacteria, segmenting brain tumors
- Inventurn Remote  
May 2022 – Nov 2024  
*Founder & Core Backend Developer*
  - Company that builds applications for businesses and nonprofits, e.g. outreach app to serve thousands of volunteers in NJ
  - Personally focused on APIs and database logic, also gained experience with web3, blockchain infrastructure

## HONORS

- Regeneron Science Talent Search Top 40 Finalist (2025): The “oldest and most prestigious” science competition in the United States. Awarded \$25,000 for brain tumor detection research with low-quality MRI scans.
- 1st place Math & CS, NJ Academy of Sciences Symposium (2024): Around 200 students across all categories. Placed first in Math & CS, then represented NJ at national symposium.
- Karen Kranz Independent Researcher Award (2024): One of two students awarded at Terra North Jersey Science Fair out of 150+ participants.
- IEEE UEMCON Best Paper, AI/ML (2023): Recognized for research on toxin-producing algal bloom detection.
- Highest Honors, Naval Horizons Essay Contest (U.S. Navy) (2022): For essay on the ethics and future of AI in military.
- Presidential Volunteer Service Award (Gold) (2022): Received for leading cleanup efforts at Liberty State Park, creating apps for volunteer organizations, and teaching Python.
- VEX VRC Robotics World Championship Qualifier (2022): Programmer for team 7405M, worked on driver-controlled and autonomous routine using C/C++. Experience with PID controller, odometry.

## CONFERENCES/JOURNALS

- Li, B., Ding, K., Dera, D. (2025). MD-SA2: optimizing Segment Anything 2 for multimodal, depth-aware brain tumor segmentation in sub-Saharan populations. *J. Med. Imag.* 12(2). <https://doi.org/10.1117/1.JMI.12.2.024007>
- Li, B., Serrano, K., Mazzaro, M., Wu, M., Wang, W., & Zhu, M. (2023). Identification of Cyanobacteria for Harmful Algal Blooms Research Using the YOLO Framework. *IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON)*. <https://doi.org/10.1109/uemcon59035.2023.10316078>

## SKILLS

- **Languages:** Python, Java, Javascript, C/C++, SQL, LaTeX
- **Libraries:** PyTorch, scikit-learn, NumPy, Pandas, Matplotlib, OpenCV, Qiskit
- **Systems and Developer Tools:** Linux/Unix, Windows, Git