

Michael Lin

140 Commonwealth Ave, Chestnut Hill, MA | +1-925-257-3525 | michael.lin2k21@gmail.com

Boston College senior with demonstrated experience in ML-enhanced segmentation and collaborations with USC and Columbia. Looking to continue commitment to research as I pursue my master's degree.

Education

Boston College

Bachelor's Degree

Chestnut Hill, MA

Expected Graduation: May 2025

- **Majors:** B.S. in Computer Science, B.A. in Mathematics
- **Relevant Coursework:** Multivariable Calculus, Linear Algebra, Probability, Mathematical Statistics, Algorithms, Computational Complexity, Computer Vision

Technical Skills

Extensive experience with Python, Numpy, PyTorch, OpenCV; moderate experience with Java, C, C++, R

Work Experience

Undergraduate Research Fellow (Boston College)

January 2022 – present

- Developed fundamental engineering skills through spearheading creation of a machine learning model for automated vortex segmentation in microscopy images of ferroelectric lattices in collaboration with the Department of Materials Science at USC, enabling a hundred-fold increase in data annotation throughput with minimal human supervision
- Exercised practical research proficiency by leveraging existing AI libraries to segment vesicles and analyze performance within all neurons of a *Hydra vulagris* specimen, ultimately generating tens of thousands of highly-precise (precision of over 0.95) annotations to support neuroscience research at Rafael Yuste's lab at Columbia University
- Improved instructive capabilities through managing a twelve-week computer vision onboarding program and providing technical knowledge on the Boston College Linux cluster, SLURM job manager, and various fundamental research skills as a principal undergraduate researcher for the Boston College Computer Science Department during the summer of 2024

Teaching Assistant (Boston College)

August 2022 – May 2023

- Demonstrated a thorough understanding of various machine learning packages by holding weekly office hours and organizing one-on-one instruction with forty students as a teaching assistant for the Biomedical Image Analysis class in the Computer Science Department

Extracurricular Activities

Member and Head of Marketing (BC Machine Intelligence Group)

August 2023 – present

- Organized and managed public outreach for various club events through designing promotional materials and coordinating with speakers and administrators
- Displayed commitment and engagement as a non-executive club member by organizing and presenting on the U-Net architecture to an audience of technically versed undergraduates

Miscellaneous

Languages: Broad proficiency in English; conversationally fluent in Mandarin Chinese

Interests: Long-distance running, contemporary American fiction novels