Victor Li

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EDUCATION

University of Michigan College of Engineering | **GPA: 3.8** | B.S.E. BME | Expected 2028 | COE Scholarship of Honor
Bronx High School of Science, Bronx, NY | **GPA: 4.0** | SAT: 1560
Relevant Courses: Programming & Data Structures, Engineering 100, Single & Multivariable Calculus, Biology, Chemistry, Physics 1 & 2, Statistics

TECHNICAL & ANALYTICAL SKILLS

Data Analysis: Python (pandas, NumPy), R (tidyverse), Java (OOP), SQL fundamentals, MATLAB
Spreadsheet & Reporting: Excel (pivot tables, ApachePOI), R Studio, Microsoft Office
Visualization & Tools: R Shiny, Biorender, Git/GitHub, HTML/CSS, Adobe Photoshop, AlphaFold Multimer, VMD, CAD

WORK EXPERIENCE

BME Lab Researcher | Chanderasekaran Lab | University of Michigan, Ann Arbor **August 2025-Present**
- Screened 100,000+ drug combinations for synergy and built the workflow into a reusable MATLAB for future predictions
- Predicted top-performing drug combinations and translated outputs into ranked shortlists for the physical testing stage
- Delivered one-page briefs & Excel deliverables; presented weekly updates in lab meetings to support faster, clearer decisions

NSF–MPS Research Intern | UCLA & NSF | Remote **Jun 2023–Mar 2025**
- Analyzed 2.1M+ continuous glucose monitoring readings in R to support an accepted diabetes paper
- Coded 30+ longitudinal trend plots and integrated them into an R Shiny app to enable interactive review for collaborators
- Used GitHub to manage version control, resolve merge conflicts, and coordinate code contributions with the research team

EMHS Research Intern | Albert Einstein College of Medicine | Bronx, NY **Jun 2024–Dec 2024**
- Authored a diabetes manuscript on protein interaction mechanisms and produced 10+ figures to clarify key findings
- Developed 3 Java parsers to convert complex PDB outputs into structured Excel tables via Apache POI
- Simulated protein interactions and analyzed high-dimensional Excel datasets (100K+ columns) to support downstream modeling and interpretation.

Field Biology Intern | Alley Pond Environmental Center | Queens, NY **Jun 2023–Sep 2023**
- Collected and analyzed 10 datasets in spreadsheets on water quality, plant biodiversity, and fish populations
- Worked with a field team to create longitudinal graphs and present data-driven conservation recommendations to park managers

LEADERSHIP EXPERIENCE

PeriOperative Project Team Firmware Engineer | MHEAL | Ann Arbor **Aug 2025–Present**
- Developed Raspberry Pi firmware (Python + GPIO) for a relay-driven heated OR mattress, adding touchscreen UI, alerts, data logging, and safety interlocks to improve usability in low-resource operating rooms.
- Ran bench tests on temperature sensors and heating profiles and analyzed results in Excel to recommend setpoints, thresholds, and safety limits; maintained GitHub documentation to help new members onboard faster.

Director of Content | Youth Medical Association | NYC **Sep 2022–Present**
- Led and analyzed outreach for 30K+ monthly viewers and gave biweekly health presentations to 100+ members
- Coordinated 30+ educational tours; managed logistics across 30 global chapters and 4 teams with MS Office
- Raised $2.5K+ for health causes; helped form NYC Mayor's Youth Council to expand health education
- Earned Gold Level Presidential Volunteer Service Award (509 hours) for collaborative service across global chapters

Student Speaker | Global Health Leaders Conference at Johns Hopkins University | Remote **2023 & 2024 Summers**
- Admitted to a highly competitive program (~9% acceptance rate); completed with 100% accuracy on all exams
- Selected as one of ~20% of student speakers to present Continuous Glucose Monitoring research to 200+ attendees
- Recognized as one of 20 out of 1,000+ program attendees to receive the Outstanding Speaker Award for research and presentation excellence (Speech Recording)

PUBLICATIONS

1. Okuno T, Sort L, Zhang B, Zhou K, Kitchen M, **Li V**, et al. "Temporal Glycemic Patterns in Type 1 and Type 2 Diabetes: Insights From Extended Continuous Glucose Monitoring." *Journal of Diabetes Science and Technology.* Accepted. https://doi.org/10.1177/19322968251341264
2. Structure-Based Computational Analysis of Interactions between Insulin Receptor and Insulin Inhibitory Receptor Victor Li, Yinghao Wu bioRxiv 2024.09.06.611694; doi: https://doi.org/10.1101/2024.09.06.611694