Curriculum Vitae — Research Positions

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Education

UNC Chapel Hill (Aug 2025 – Present)

• B.S. in Physics (Expected May 2029)

Green Hope High School (Aug 2021 – May 2025)

- GPA: 4.00/4.00 | SAT: 1540
- NCSSM: Honors Computational Physics, Honors Computational Medicinal Chemistry, Honors Aerospace Engineering, Honors Multivariable Calculus

Research Experience

NCSSM SRIP — Research Fellow

• Solved AMM Problem #12449; paper under review.

QuarkNet/CERN Workshops

- CMS Data Analysis (2023): Measured dimuon angular distributions.
- ATLAS Z-path (2024): Categorized LHC collision events.
- Dark Matter Masterclass (2024): Calculated WIMP interaction limits using XENON1T data.

Publications & Posters

• Biyala, I., et al. (2025). "Solution to AMM #12449." Manuscript under review. Presented Poster in SNCURCS 2025.

Professional Experience

Assistant Tournament Director, Triangle Chess Center (Nov 2022 – 2024) • Managed Swisssystem pairing and score reporting; certified USCF Club Director.

Volunteer Technician, Kramden Institute (July 2023 – July 2024) • 110+ hours building, testing and troubleshooting computers that are delivered to children in need.

Leadership & Service

President-Elect, GHHS Chess Club (2024–2025) • Led outreach initiatives that increased club membership from 10 to 70; organized inter-school chess tournaments.

Chess Achieves Volunteer Instructor (2019–2024) • Delivered 625+ hours of chess instruction; coached students to national top 15%.

Honors & Awards

- 1st Place, NC Science Olympiad Astronomy (2024)
- USCF Club Director & Tournament Arbiter Certification

Extracurricular

- Chess Player (1600 USCF);
- Rubik's Cube solver (avg. 20s).