Antony (Zhongyu) Liao

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EDUCATION

No. 2 High School of East China Normal University **Shanghai, China**
Grade 10 (US permanent resident) *Sep 2025 – Present*
Overall performance: A+ 4.0 GPA; Dean's List; Form President; Mathematics Class Representative

Jing'an Education College Affiliated School **Shanghai, China**
Middle School Program *Sep 2021 – Jun 2025*
Top 5% GPA schoolwide; Founder and President, Advanced Aircraft Club; multiple school and district honors

STEM HIGHLIGHTS

- AI: Selected for the Shanghai JiaoTong University Youth Academy of Artificial Intelligence (Sep 2025–Present) as 1 of 50 students from 900 applicants nationwide; completed university-level coursework in Machine Learning, Natural Language Processing, and Computer Vision. Reached the finals of the National Olympiad of Artificial Intelligence (China) in June 2026.
- Programming: Coding since age 8 (Jul 2018–Present); proficient in Python, C++, and Java; independently built a Minecraft mod of ~30,000 lines with new block systems, interaction logic, and custom AI behaviors; published on GitHub and CurseForge.
- Mathematics: Selected to enroll in SUMaC 2026; 13 on AIME (Feb 2026); AMC 12 score 130.5 (Nov 2025), qualified for 2026 AIME.
- Aviation: Founded and led a Conrad Challenge team (Oct 2022–Apr 2025); designed and built a 1.6m, 10kg tilt-rotor UAV; won the Conrad Challenge Innovator Award among ~950 global teams; project also recognized in Shanghai's "Tomorrow's Science Star" program and won Third Prize at the Shanghai Youth Science and Technology Innovation Competition.
- Advanced study: AwesomeMath Summer Program twice (Jun–Jul 2023, Jun–Jul 2024), studying Counting Strategies, Modular Arithmetic, Algebra 2.5, and Computational Geometry.
- Research: Selected for Yau Math Camp International High School Program (Jul–Aug 2025) as 1 of 160 students from 2,000+ applicants worldwide; completed coursework in Analytic Number Theory, Linear Algebra, and Topology; delivered a talk on "Colorability and Knot Groups"; paper submitted to the Yau Science Awards.
- Electrical engineering: Completed the Johns Hopkins CTY Summer Program in Los Angeles (Jul–Aug 2023); presented "Two Methods of Etching" comparing wet and dry etching; earned a perfect final score of 100/100, the only student in the cohort to do so.

WRITING, ATHLETICS & ARTS

- English and writing: SAT 1560 (99%, Oct 2025); SSAT 2316 (98%, Oct 2023); TOEFL 111 (Mar 2023). Published two English books on Amazon: A Leaf of Thoughts (2023, 230 pages, ~80 essays) and A Drift of Thoughts (2025, 270 pages, 60+ essays on literature and philosophy).
- Athletics: Five years of competitive squash training with multiple Shanghai Open titles and a National Open bronze medal; currently ranked Top 3 nationally in U17 Boys with an estimated US Squash rating of ~5.5.
- Music: Studied erhu for 10+ years; earned the Shanghai Conservatory of Music Level 10 Performance Certificate; won Third Prize at the Magnolia Chinese Music Competition and a Silver Prize in the Minhang District Arts Competition.

LEADERSHIP & COMMUNITY SERVICE

- School leadership: Served as Class President and Mathematics Class Representative; previously recognized as an outstanding student leader in club activities.
- Student leadership: Founded and led the Advanced Aircraft Club; received honors including "Practice Star," "Technology Star," and "Jing'an District Sports Achiever."
- Community service: Co-founded "Liver-to-Heart," supporting children in need of liver transplants through charity performances, fundraising sales, concerts, and free English programs; the society's attention on these children. Active for 10+ years with cumulative fundraising above USD 50,000, influenced more than 10,000 patients around the country, made liver transplants free for all children in need of it.

SKILLS & INTERESTS

Languages: English, Mandarin
Technical: Python, C++, Java, Machine Learning, Natural Language Processing, Computer Vision, Electrical Engineering
Research & Writing: Analytic Number Theory, Linear Algebra, Topology, literary criticism, research presentation
Interests: Mathematics, AI, aviation design, squash, erhu, literature and philosophy