

Jiazhi Chen

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EDUCATION

Hangzhou No.2 High School of Zhejiang Province
High School Student

2025–Present
Hangzhou, China

RESEARCH

The Exact Saturated 6- and 7-Sperner Numbers
Independent Research; Lean 4 Formalization

2026
Hangzhou, China

- Proved the exact values $\text{sat}(6) = 30$ and $\text{sat}(7) = 55$ using blocker reductions, finite classification, and explicit constructions.
- Formalized the complete proof in Lean 4 and released the source code, SAT certificates, and replay scripts.
- Archived the manuscript and reproducibility materials on Zenodo (DOI: 10.5281/zenodo.21770438).

HONORS

Informatics Competitions

NOIP – First Prize	2025
CSP-S – First Prize	2025
USACO – Platinum Division	2026

Mathematics Competitions

AIME II – Score: 11/15	2026
AMC 12 – Distinction (Top 5%); 3rd Place at the Test Center	2025
AMC 8 – Perfect Score (25/25)	2023

Other Honors

Huilan Award, Hangzhou No.2 High School of Zhejiang Province	2026
Science and Innovation Star Award, Hangzhou No.2 High School of Zhejiang Province	2025
Desmos Studio Math Art Expo – Featured Artwork	2024
Chinese Weiqi Association – Amateur 5-dan	2019

TECHNICAL SKILLS

Languages	C++, Python, TypeScript, JavaScript
Formal Methods	Lean 4, SAT solving, proof formalization
Web Development	React, Node.js, HTML/CSS, Docusaurus
Tools	Git, Linux, Docker, LaTeX, GitHub Actions

RESEARCH INTERESTS

Combinatorics, Extremal Set Theory, Formal Verification, Algorithms