

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

2026

Independent Research; Lean 4 Formalization

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