

# ZHOU Changhui

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## Education Experience

**Ningbo Xiaoshi High School International Center**, International Baccalaureate® (IB)  
Diploma Programme

Sept 2023 - May 2026

- **Predicted Grade:** 42/42.
- **Courses:** Chinese A Lit SL, English B HL, Environmental System and Societies SL, Chemistry SL, Physics HL, Mathematics AA HL.
- **Awards and scholarship:**
  - Grade 10: Li Zutong Scholarship, Outstanding Student\*, Distinction in IB Student Union\*, Star of the Class\*, Nomination in Star of Xiaoshi, 9 scholarstic distinction Awards\*\*.
  - Grade 11: Wang Zhicheng, Zheng Cuimu Scholarship, 9 scholarstic distinction Awards\*\*.

\*These awards can not be issued twice. \*\* Awarded semesterly for top 5% in each subject.

## Standardized Tests

**SAT**, College Board

March 9, 2024

Total Score: **1560**/1600.

Reading and writing: **760**/800, Math: **800**/800.

**Advanced Placement (AP)**, College Board

May, 2024

Computer Science A: **5**/5.

Calculus BC: **5**/5.

**TOEFL iBT**, Education Testing Service

August, 2025

Total Score: **112**/120.

Reading, Listening, Speaking, Writing: 30/30, 30/30, 23/30, 29/30.

## Academic Awards

### Computing / Informatics

- Canadian Computing Competition (CCC) Global Top 1%
- USA Computing Olympiad (USACO) Platinum Division
- Singapore National Olympiad in Informatics (NOI) Gold Medal

### Mathematics

- American Mathematics Competition (AMC) Distinction
- American Invitational Mathematics Examination (AIME) 8/15
- Berkeley Math Tournament (BMT) Discrete High Distinction (Gold) + Geometry Distinction (Silver)
- UK Maths Trust - Senior Maths Challenge (UKMT - SMC) Global Gold
- Australian Mathematics Competition First Prize
- High School Mathematical Contest in Modeling (HiMCM) Successful Participant

### Physics

- British Physics Olympiad (BPhO) Top Gold (Top 50)

## Leadership Experience

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**Co-founder** of Computer Science Club.

September 2024

- Share knowledge and skills about different areas related to computer.
- Build programs for another club and an education institution.

**Deputy Minister of the Art and Culture Department** of the Student Union

October 2024 - June 2025

- Assist in promotion of activities (posters, videos, etc).
- Organize lighting and audio control in performance activities.

## Internship and other Experience

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**Teaching Assistant** Local after-school care program.

August 2023

- Provide students with science lessons and homework assistance.
- Organize game sessions for more than 15 kids.

**Member** of Smiling club.

September 2023-June 2024

- Provide pronunciation adjusting service to children with orofacial cleft .
- Promote knowledge about orofacial cleft through social media.

**Drummer** of international center school band.

September 2023-Present

- Participated in transcribing, adaptation and rehearsal.
- Performed as drummer in Music Festival and New Year Concert.

**Participant** of North Carolina Math Camp

July 2024

- Learn about number theory and topology.
- Write an essay on RSA encryption.

## Skills

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**Language:** English (Fluent), Chinese (Native Speaker).

**Technical:** C++, Python, Java,  $\text{\LaTeX}$

**Interests:** Drum set, table tennis, chess

## Publications

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**AI-empowered Search Drone:**

October 2024

**Advanced AI-based Tiny Object Search Drone for Broad Areas**

**C Zhou, T Yu**

[10.54254/2755-2721/95/20241767](https://arxiv.org/abs/10.54254/2755-2721/95/20241767) 