

# Yixiong (Colin) Gao

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## RESEARCH INTEREST

I have a broad interest in theoretical computer science (TCS) and operations research (OR).

Currently, I am focusing on the following topics:

- **Algorithmic Mechanism Design:** Scheduling Games, Fair Allocation.
- **Combinatorial Optimization:** Scheduling Problems, Knapsack Problems.

## EDUCATION

- **City University of Hong Kong** Hong Kong SAR, China  
*Ph.D candidate in Computer Science, supervised by Prof. Minming Li* Sept. 2024 – Present
- **Hangzhou Dianzi University** Hangzhou, China  
*B.Eng. (Honors) in Computer Science and Technology, GPA: 4.64/5.00, Rank: 1/21* Sept. 2020 – Jun. 2024

## EXPERIENCE

- **Ant Group** Hangzhou, China  
*Research Intern in the Department of Super Computing Technology* Aug. 2025 – Dec. 2025
- **Zhejiang University** Hangzhou, China  
*Visiting Research Student, advised by Prof. Lin Chen and Prof. Guochuan Zhang* Jul. 2025 – Dec. 2025
- **City University of Hong Kong Shenzhen Research Institute** Shenzhen, China  
*Research Intern, advised by Prof. Minming Li* Sept. 2023 – Feb. 2024
- **City University of Hong Kong** Hong Kong SAR, China  
*Visiting Research Student, advised by Prof. Minming Li* Sept. 2023 – Feb. 2024

## TEACHING

- **[CS 6382] Algorithm Analysis and Game Theory** Hong Kong SAR, China  
*Teaching Assistant, City University of Hong Kong, Graduate Level* 2025
- **[CS 3391] Advanced Programming** Hong Kong SAR, China  
*Teaching Assistant, City University of Hong Kong, Undergraduate Level* 2023, 2025, 2026

## PUBLICATIONS AND MANUSCRIPTS

C=CONFERENCE, J=JOURNAL, S=IN SUBMISSION

The authors' names are listed in alphabetical order in Theory-related papers. ([why?](#))

- [C.1] **[Revisit the Scheduling Problem with Calibrations.](#)**  
Lin Chen, Yixiong Gao, Minming Li, Guohui Lin, and Kai Wang.  
In the 35th International Symposium on Algorithms and Computation (ISAAC 2024).
- [S.1] **[Crane Scheduling Problem with Energy Saving.](#)**  
Yixiong Gao, Florian Jaehn, Minming Li, Wenhao Ma, and Xinbo Zhang.  
under review.

## SCHOLARSHIPS

- **Postgraduate Studentship (City University of Hong Kong)** 2024 – Present
- **Zhejiang Provincial Government Scholarship** 2022, 2023
- **First Class Scholarship (Hangzhou Dianzi University)** 2021, 2022, 2023

## HONORS AND AWARDS

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- **Awards in International Collegiate Programming Contests (ICPC)**

- Gold medal in the 49th ICPC Asia Hangzhou Regional Contest Nov. 2024
- Gold medal in the 48th ICPC Asia Hangzhou Regional Contest Dec. 2023
- Gold medal in the 47th ICPC Asia Nanjing Regional Contests Dec. 2022
- Gold medal in the 47th ICPC Asia Hefei Regional Contest Nov. 2022
- Gold medal in the 45th ICPC Asia Jinan Regional Contest Dec. 2020

- **Awards in China Collegiate Programming Contests (CCPC)**

- Gold medal in the 9th CCPC Harbin Site Nov. 2023
- Gold medal in the 8th CCPC Guangzhou Site Nov. 2022
- Gold medal in the 8th CCPC Weihai Site Nov. 2022

- **Awards in IEEEExtreme Programming Competition**

- Hong Kong Championship in IEEEExtreme 18.0 (13th globally) Oct. 2024
- Hong Kong Championship in IEEEExtreme 17.0 (11th globally) Oct. 2023

- **CCF Elite Collegiate Award**

*Awarded by the China Computer Federation to about 100 undergraduate students in China each year.* Oct. 2023

## SERVICE

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- **Organizing Committee Member of Universal Cup**

2025 – Present

- **Problem Setter and Chief Judge of Competitive Programming Contests**

2022 – Present

- ICPC Asia East Continent Online Contest (2023 I, 2024 II);
- CCPC Women's Division & Vocational Division (2025);
- Osijek Competitive Programming Camp (2026 Winter);
- Multi-University Training Contests on HDUOJ (2023, 2024);
- Guangxi Collegiate Programming Contest (2021, 2022, 2023, 2024, 2025);

- **Student Coach of CityUHK Competitive Programming Training Team**

2023 – Present

- **Student Coach of HDU Competitive Programming Training Team**

2022 – 2023

Updated January 29, 2026