

# JUNKAI SONG

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## EDUCATION

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<b>University of Pennsylvania</b> , Philadelphia, PA	09/2024 – Present
Ph.D. in Computer and Information Science. GPA: 4.00 / 4.00 Advised by Sanjeev Khanna and Erik Waingarten	
<b>The University of Hong Kong</b> , Hong Kong SAR, China	09/2020 – 06/2024
B.Eng. in Computer Science. First Class Honours.	
<b>University of California, Berkeley</b> , Berkeley, CA	06/2021 – 08/2021
Non-Degree, Summer Sessions.	

## PUBLICATIONS

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*Author names are in alphabetic order.*

### On the Parallel Complexity of Finding a Matroid Basis

Sanjeev Khanna, Aaron Putterman, Junkai Song.  
66th IEEE Symposium on Foundations of Computer Science (FOCS), 2025.

### Contention Resolution for the $\ell$ -fold union of a matroid via the correlation gap

Chandra Chekuri, Junkai Song, Weizhong Zhang.  
SIAM Symposium on Simplicity in Algorithms (SOSA), 2024.

### Online Matching with Stochastic Rewards: Advanced Analyses Using Configuration Linear Programs

Zhiyi Huang, Hanrui Jiang, Aocheng Shen, Junkai Song, Zhiang Wu, Qiankun Zhang.  
19th Conference on Web and InterNet Economics (WINE), 2023.

## MANUSCRIPTS

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### Colorful Priority $k$ -Supplier

Chandra Chekuri, Junkai Song.

## SELECTED AWARDS

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• 23rd place, Gold Medal, The 2023 ICPC Asia East Continent Final Contest	2023
• Reseach Internship Award, HKU	2023
• Undergraduate Research Fellowship Programme Membership, HKU	2023
• 7th place, Gold Medal, ICPC Macau Regional Contest 2023	2023
• Dean's Honours List (Top 5%), Faculty of Engineering, HKU	2021-2022
• 17th place, Gold Medal, ICPC Shanghai Regional Contest 2021	2021
• 9th place, Gold Medal, ICPC Jinan Regional Contest 2020	2020

## SKILLS

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**Programming Languages:** C/C++, Python, Java, Bash, SQL

**Tools:** Git, Markdown,  $\text{\LaTeX}$