

Xiongxin Yang

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Education

- **University of California, Santa Barbara** Santa Barbara, CA, US
Ph.D. Candidate in Computer Science (expected) Sept. 2025 - 2030
– Advisor: Prof. Eric Vigoda
- **Northeast Normal University** Changchun, China
B.S. in Computer Science and Technology Sept. 2020 - Jun. 2024
– Advisor: Prof. Zhiguo Fu
- **Chongqing Bashu Secondary School** Chongqing, China
High School Student, a member of the Math Olympiad team Sept. 2017 - Jul. 2020

Employment

- **The University of Hong Kong** Hong Kong SAR, China
Research Assistant, host by Prof. Weiming Feng May 2025 - Jul. 2025
- **New York University Shanghai** Shanghai, China
Research Associate, host by Prof. Jie Xue Oct. 2024 - Jan. 2025

Visits and Internships

- **The University of Hong Kong** Hong Kong SAR, China
Visitor, host by Prof. Weiming Feng Mar. 2025
- **Nanjing University** Nanjing, China
Visiting Student, host by Prof. Yitong Yin Apr. 2023

Publications

Unless stated otherwise, author names are listed in alphabetical order.

● indicates conference paper, and ● indicates journal paper.

[4] Dynamic Maximum Depth of Boxes with Near-optimal Update Time

Sujoy Bhore, Subhash Suri, Jie Xue, **X. Yang**, Jiumu Zhu

Submitted

[3] Dynamic maximum depth of geometric objects

Subhash Suri, Jie Xue, **X. Yang**, Jiumu Zhu

In the 41st International Symposium on Computational Geometry (**SoCG 2025**)

[2] **Spectral Independence Beyond Total Influence on Trees and Related Graphs**

Xiaoyu Chen, **X. Yang**, Yitong Yin, Xinyuan Zhang

In the 2025 ACM-SIAM Symposium on Discrete Algorithms (**SODA 2025**)

[1] **Beyond windability: Approximability of the four-vertex model**

Tianyu Liu, **X. Yang**

Theoretical Computer Science, Volume 995 (2024), Article 114491

Talks

- **Dynamic Maximum Depth of Geometric Objects**

- The 16th Annual Meeting of Asian Association for Algorithms and Computation (AAAC 2025)

- @ The City University of Hong Kong, Hong Kong SAR, China

May 31, 2025

- The 41st International Symposium on Computational Geometry (**SoCG 2025**)

- @ Kanazawa, Ishikawa Prefecture, Japan

Jun. 25, 2025

- **A Glimpse into the Theory World**

- Information Science Academic Forum (in Chinese)

- @ Northeast Normal University, Changchun, China

Apr. 11, 2025

- **Approximability of the Four-Vertex Model**

- Theory Lunch

- @ New York University Shanghai, Shanghai, China

Oct. 24, 2024

Selected Awards and Scholarships

- **Presidential Scholarship**

rank 1 in the major

Northeast Normal University

2022 & 2024

- **National Scholarship**

top scholarship in mainland China (0.2% national-wide)

China

2021

Service

- Conference Reviewing: SoCG (2025)