

Xuyang Ma, PhD Student

 fsnhfsakura@163.com

 <https://github.com/RTX2080>

Education

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| 2024 – 2028 | ■ Ph.D. in Computer Science, Singapore University of Technology and Design
supervised by Prof. Peng Song . |
| 2021 – 2024 | ■ M.Eng. in Computer Technology, Institute of Computing Technology, Chinese Academy of Sciences
Thesis title: <i>Research on Massive Data Transmission in LEO Satellite Communication Network</i> supervised by Prof. Yiqing Zhou . |
| 2017 – 2021 | ■ B.Eng. in Software Engineering, Shandong University
Thesis title: <i>A Comparative Analysis of SIFT and SURF Feature Extraction for Depth Camera Image Matching</i> supervised by Prof. Rongjiang Pan . |

Publications

Rulin Chen, **Xuyang Ma**, Praveer Tewari, Chi-Wing Fu, and Peng Song. Inverse Tiling of 2D Finite Domains. *SIGGRAPH Asia Conference Papers*, 2025.

Yaoqi Lu, Bingbing Shi, Yinhe Han, **Xuyang Ma**, Jiying Yin, and Hongxin Li. Efficient Information Support in Leo Scns: A Multi-Layer Spatiotemporal Cost Model and Dynamic Reallocation Algorithm. *Computer Networks*, Volume 274, 2026, 111792

Yaoqi Liu, Jinglin Shi, **Xuyang Ma** et al., A Data Transmission Method Based on Satellite Internet. Patent No. CN117914387A, China, 2024.

Xuyang Ma et al., A Method for Testing Satellite Algorithms. Patent No. CN114780063A, China, 2022.

Teaching

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|------|---|------|
| 2026 | ■ Guest Instructor (Feb 19)
30.532 Additive Manufacturing for HealthTech | SUTD |
| 2025 | ■ Teaching Assistant (Jan 17 – Jan 27)
50.050 Discrete Mathematics and Algorithm Design | SUTD |
| | ■ Teaching Assistant (May – Aug)
10.020 Data Driven World | SUTD |

Awards

- 2019

 - **Champion**, International Collegiate Programming Contest China Invitational Contest (Nanchang)
 - **Gold Award**, China Collegiate Programming Contest Regional Contest (Qinhuangdao)
 - **Runner-up**, International Collegiate Programming Contest China Provincial Contest (Shandong)
 - **Silver Award**, International Collegiate Programming Contest Asia Regional Contest (Nanchang)
 - **Bronze Award**, China Computer Federation Collegiate Computer Systems & Programming Contest

Interests

- Sports Table tennis, Cycling, Badminton, Go, Chinese chess, Swimming.

Interests (continued)

Misc.  Anime, Computer games