

Xuyang Ma, PhD Student

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🌐 <https://github.com/RTX2080>

Education

- 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: *Research on Massive Data Transmission in LEO Satellite Communication Network* supervised by [Prof. Yiqing Zhou](#).
- 2017 – 2021 📖 **B.Eng. in Software Engineering, Shandong University**
Thesis title: *A Comparative Analysis of SIFT and SURF Feature Extraction for Depth Camera Image Matching* 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

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

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