Xuyang Ma, PhD Student

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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
50.052 Extended Reality

2025   ▌ **Teaching Assistant** (Jan – Feb)   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