

Xuyang Ma, PhD Student

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 <https://github.com/RTX2080>

Education

- 2024 – 2028  **Ph.D. in Computer Graphics, 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. Revisions submitted.*

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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| 2025 | Teaching Assistant Discrete Mathematics and Algorithm Design (50.050) | SUTD |
| | Teaching Assistant Data Driven World (10.020). | 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.
Misc.  Anime, Computer games