

# Xuyang Ma, PhD Student

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## Education

- 2024 – 2028

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**Ph.D. in Computer Graphics, Singapore University of Technology and Design**  
supervised by [Prof. Peng Song](#).
- 2021 – 2024

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**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

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**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

- 2025

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**Teaching Assistant**  
Discrete Mathematics and Algorithm Design (50.050)

SUTD
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**Teaching Assistant**  
[Data Driven World \(10.020\)](#).

SUTD

## Awards

- 2019

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

## Interests

- Sports

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

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Anime, Computer games