

# Qi Ma

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## EDUCATION

### ETH Zürich

09/2024 - 07/2026(expected)

Computer Science MSc(Upcoming Students)

### Tsinghua University

08/2020 - 07/2024

B.E in Computer Software Engineering

GPA: 3.93/4.00 Ranking: 4/91

## SKILLS

### Programming Languages

Python, C++, C, JavaScript, Java, C, SQL, MATLAB, R, Verilog

### Frameworks

PyTorch, Django, Android, WeChat Miniprogram, Flask, Qt

### Language

TOEFL 106, GRE 322

## RESEARCH EXPERIENCE

### Institute of Computer Graphics and Computer Aided Design, Tsinghua University

01/2022 - 05/2024

*Advised by Associate Professor Feng Xu, 3D Vision and Graphics/Motion Capture*

- Real-time estimation of human pose and translation using sparse IMU sensors and monocular RGB cameras. Accepted by SIGGRAPH ASIA 2023(second author).
- Real-time human motion capture based on everyday wearable devices(iPhone,Apple Watch,Headphones). (Graduation Project)

### The Movement Lab, Stanford University(remote)

06/2023 - 01/2024

*Advised by Prof. Karen Liu and Dr. Wouwe, 3D Vision and Graphics/Motion Capture*

- Automatic marker labelling for optimal motion capture.

## RESEARCH PUBLICATION

Shaohua Pan, **Qi Ma**, Xinyu Yi, Weifeng Hu, Xiong Wang, Xingkang Zhou, Jijunnan LI, Feng Xu” *Fusing Monocular Images and Sparse IMU Signals for Real-time Human Motion Capture*”, SIGGRAPH ASIA 2023.

## SELECTED AWARDS AND HONORS

Outstanding Graduates of Tsinghua University(top 2%,highest honor for undergraduates of THU)	6/2024
Sensetime Scholarship(30 undergraduates major in AI nationwide per year)	12/2023
Science and Technology Innovation Outstanding Scholarship of Tsinghua University	10/2023
Third prize in the development track of Tsinghua University 2022 Software Innovation and Creativity Competition	01/2023
Comprehensive Excellence Award in Tsinghua University(top 10%)	10/2022
Second Prize of National College Students Physics Competition	12/2021
Comprehensive Excellence Award (National Inspirational Scholarship) in Tsinghua University(top 10%)	10/2021
First prize at the provincial level in the 34th China Olympiad in Mathematics	2018

Second prize at the provincial level in the 35th China Olympiad in Physics	<i>2018</i>
Second prize at the provincial level of the 32nd China Olympiad in Chemistry	<i>2018</i>

## EXTRACURRICULAR EXPERIENCE

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| • Financial Director of Tsinghua University Musical Theatre Club                 | 5/2022 - 3/2024   |
| • Member of the Working Group of Tsinghua University Student Runners Association | 2/2021 - 12/2022  |
| • Monitor of Software 01 class in School of Software, Tsinghua University        | 09/2020 - 06/2021 |