

Qi Ma

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EDUCATION

Tsinghua University 08/2020¹- Current
B.E in Computer Software Engineering (senior year)
GPA: 3.92/4.00 Ranking: 4/91

SKILLS

Programming Languages Python, C++, C, JavaScript, Java, C, SQL, MATLAB, R, Verilog
Frameworks PyTorch, Django, Android, WeChat MiniProgram, Flask, Qt, Wireshark, Metasploit
Language TOEFL 106, GRE 322

RESEARCH EXPERIENCE

Institute of Software System Engineering, Tsinghua University 03/2021 - 07/2021
Advised by Associate Professor Hai Wan, Cybersecurity and ML

- Carried out SRT project "Research on the Classification of Attack Scenarios Based on Machine Learning"
- Proposed and implemented a general division algorithm for network packets, which can identify and classify several types of Cyberattack.

Institute of Computer Graphics and Computer Aided Design, Tsinghua University 01/2022 - 05/2023
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.
- Collaborate with OPPO to develop real-time human posture estimation based on IMU sensors and cameras in smart watch, smart glasses, and mobile phones.

The Movement Lab, Stanford University 06/2023 - Current
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.

INTERN

Xiaomi 06/2023 - 07/2023
Software Development Intern

- IoT platform end-side model deployment and development, including embedded platform deployment of intelligent speech dialog system (based on ChatGPT), NuttX OS end-side application development, etc.

¹In August 2019, I entered Tsinghua University majoring in materials science. In 2020, I changed my major to software engineering and started my freshman year again.

SELECTED AWARDS AND HONORS

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 (The Boeing Company Scholarship) 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
The 25th Tsinghua "Sogou Cup" Intelligent Agent Competition Winner Award	05/2021
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	2018
Second prize at the provincial level of the 32nd China Olympiad in Chemistry	2018

EXTRACURRICULAR EXPERIENCE

- Financial Director of Tsinghua University Musical Theatre Club 5/2022 - Current
- 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