

# Ziqiao "Martin" Ma

PH.D. COMPUTER SCIENCE AND ENGINEERING, UNIVERSITY OF MICHIGAN

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## Education

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### University of Michigan

Ann Arbor, U.S.

PH.D. COMPUTER SCIENCE AND ENGINEERING, (CERTIFICATE) COGNITIVE SCIENCE

May. 2026 (Expected)

- Advisor: Joyce Chai
- Research Interests: Natural Language Processing (Grounded Language Understanding and Acquisition, Situated Communication with Embodied Agents), Machine Learning (Data-Efficient Learning, Graph Neural Network).

### University of Michigan

Ann Arbor, U.S.

B.S.E. (MAJOR) COMPUTER SCIENCE, (MINOR) MATHEMATICS, SUMMA CUM LAUDE

Aug. 2019 - May. 2021

- Advisors: Joyce Chai, Qiaozhu Mei, Jie Liu
- GPA: 4.00/4.00

### Shanghai Jiao Tong University

Shanghai, China

B.E. ELECTRICAL AND COMPUTER ENGINEERING

Sep. 2017 - Aug. 2021

- Advisor: Sung-Liang Chen
- GPA: 3.75/4.00

### Technische Universität Berlin

Berlin, Germany

WINTER PROGRAM

Jan. 2018 - Feb. 2018

## Publications

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\* indicates equal contributions

Partition-Based Active Learning for Graph Neural Networks.

Jiaqi Ma\*, **Ziqiao Ma\***, Joyce Chai, Qiaozhu Mei.

DGL-KDD, 2022. [Arxiv] [Code]

## Presentations

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\* presenting author

Jun. 2022 Language Communication and Collaboration with Autonomous Vehicles under Unexpected Situations  
ARC Annual Program Review. Ann Arbor, MI. [Poster] [Slides]

## Teaching

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### UNIVERSITY OF MICHIGAN

Win. 2021 **Artificial Intelligence (EECS492)**, Instructional Aide

### SHANGHAI JIAO TONG UNIVERSITY

SU. 2020 **Artificial Intelligence (VE492)**, Teaching Assistant

SU. 2020 **Programming & Data Structure (VE280)**, Teaching Assistant

SU. 2019 **Physics Lab I (VP141)**, Teaching Assistant

SP. 2019 **Academic Writing II (VY200)**, Teaching Assistant

FA. 2018 **Academic Writing I (VY100)**, Teaching Assistant

## Awards and Honors

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2021 **James B. Angell Scholar**, University of Michigan

2020, 2019 **University Honors**, University of Michigan

2020, 2019 **Dean's List**, University of Michigan

2019, 2018 **Undergraduate Academic Excellence Scholarship**, Shanghai Jiao Tong University

2018 **National Scholarship**, Ministry of Education of China

2017 **John Wu & Jane Sun Excellence Scholarship**, Shanghai Jiao Tong University

**Undergraduate Volunteer Scholarship**, Shanghai Jiao Tong University

## Professional Service and Activities

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Reviewer COLING (2022), EMNLP (2022),

## Community Service and Activities

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### SERVICE

- 2022-Now **Computer Science and Engineering Graduate student organization (CSEG)**, Vice President, Treasurer
- 2021-Now **Michigan Student Artificial Intelligence Lab**, Mentor
- 2019-2020 **SJTU Student Science and Technology Innovation Association**, Minister
- 2019-2020 **Young Volunteers Association**, Assistant Student Adviser
- 2018 **Joint Institute Student Union**, Project Leader of Liaison Department

### VOLUNTEERING

- 2018 **Bangladesh Poverty Reduction Challenge**, Active Member
- 2018 **Yunnan San He Junior High School Volunteer Teaching Team**, Volunteer Math Teacher

## Mentoring

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- 2021-Now **Jiayi Pan**, B.S. Computer Science, University of Michigan
- 2021-Now **Yidong Huang**, B.S. Computer Science, University of Michigan
- 2021-Now **Eui-In Kim**, B.S. Computer Science, University of Michigan

## Skills

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- Language **Python, C/C++, Java, JavaScript, Matlab, R, Verilog, TeX**
- Framework **PyTorch, TensorFlow, NLTK, OpenCV, AirSim, Networkx, jQuery, Hadoop**
- Courses **Natural Language Processing (A+), Computer Vision (A+), Machine Learning (A+), Information Retrieval (A+), Human Computer Interaction (A), Ethcis for AI (A)**