

Ziqiao Ma

UNDERGRADUATE · COMPUTER SCIENCE

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Education

University of Michigan

Ann Arbor, U.S.

BS COMPUTER SCIENCE (DUAL DEGREE)

Aug. 2019 - May. 2021 (Expected)

- Cumulative GPA: 4.00/4.00
- Minor in Mathematics
- Course Works: Machine Learning (A+), Artificial Intelligence (A), Web System (A), Natural Language Processing (In progress), Deep Learning (In Progress), Computer Vision (In progress)

Shanghai Jiao Tong University

Shanghai, China

BS ELECTRICAL AND COMPUTER ENGINEERING (DUAL DEGREE)

Sep. 2017 - May. 2021 (Expected)

- Cumulative GPA: 3.81/4.00
- Course Works: Discrete Mathematics (A), Logic Design (A), Honors Mathematics (A-, A, A-)

Technischen Universität Berlin

Berlin, Germany

WINTER PROGRAM

Jan. 2018 - Feb. 2018

- Course Works: Programming in Java (A)

Research Experience

Situated Language and Embodied Dialogue (SLED) Group - University of Michigan

Ann Arbor, U.S.

ADVISOR: DR. JOYCE YUE CHAI

Aug. 2020 - Present

- Project: Exception Handling in Autonomous Vehicles via Human Language Collaboration

Liu Lab - University of Michigan

Ann Arbor, U.S.

ADVISOR: DR. JIE LIU

Jan. 2020 - Present

- Project: Spatial cell pattern interpretation in T2D islets via Graph Neural Network Explainer
- Project: TAD level architectural stripes extraction
- Project: Tissue specific HiC de-convolution with ATAC-seq data

Foreseer Group - University of Michigan

Ann Arbor, U.S.

ADVISOR: DR. QIAOZHU MEI

Sep. 2019 - Present

- Project: Active learning on Graph Neural Network via graph partition
- Project: Spatial Temporal GCN on traffic data with graph co-variance information

Acemap - Shanghai Jiao Tong University

Shanghai, China

ADVISOR: DR. XINBING WANG

2008, 2011

- Projects: Key phrase extraction in scholar publications based on TextRank and Word2Vec

Teaching Experience

- SU. 2020 **Artificial Intelligence (VE492)**, Teaching Assistant, Shanghai Jiao Tong University
- SU. 2020 **Programming & Data Structure (VE280)**, Teaching Assistant, Shanghai Jiao Tong University
- SU. 2019 **Physics Lab I (VP141)**, Teaching Assistant, Shanghai Jiao Tong University
- SP. 2019 **Academic Writing I (VY200)**, Teaching Assistant, Shanghai Jiao Tong University
- FA. 2018 **Academic Writing II (VY100 and VY200)**, Teaching Assistant, Shanghai Jiao Tong University

Selected Awards and Honors

- 2020 **Dean's List**, University of Michigan
- 2019 **Undergraduate Academic Excellence Scholarship**, Shanghai Jiao Tong University
Junyuan Tang Scholarship Nomination, Shanghai Jiao Tong University
- 2018 **National Scholarship**, Ministry of Education of China
Undergraduate Social Practice Scholarship, Shanghai Jiao Tong University
Second Prize of Freshmen Robotics Competition, Shanghai Smart Manufacturing In.
- 2017 **John Wu & Jane Sun Excellence Scholarship**, Shanghai Jiao Tong University
Undergraduate Volunteer Scholarship, Shanghai Jiao Tong University

Service and Activities

OUTREACH

- 2020 **Michigan Student Artificial Intelligence Lab**, Active Member
- 2019 **UM::Autonomy**, Active Member
- 2019 **Student Science and Technology Innovation Association**, Minister
- 2017 **Joint Institute Debate Team**, Active Member

SERVICE

- 2019 **Young Volunteers Association**, Assistant Student Adviser
- 2018 **Joint Institute Student Union**, Active Member of Liaison Department

VOLUNTEERING

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

Skills

Language **Python, C/C++, Java, JavaScript, Matlab, R, Verilog, TeX,**
Framework **PyTorch, TensorFlow, NLTK, OpenCV, AirSim, Networkx, jQuery, Hadoop,**