

# Mengmeng Ma

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## Research Interests

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I am interested in (1) multimodal learning, (2) unsupervised/self-supervised representation learning, (3) transfer learning, and (4) out-of-distribution generalization, with their applications in computer vision.

## Education

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### University of Delaware

Ph.D. in Computer Science

- Advisor: Prof. Xi Peng

Newark, DE, USA

August 2020 - Present

### University of Southern California

M.S. in Electrical Engineering

- Select Courses: Machine Learning, Convex Optimization, Probability, Linear Algebra

Los Angeles, CA, USA

August 2017 - May 2019

### Northwest A&F University

B.Eng. in Electrical Engineering

- Select Courses: Analysis, Signal Processing, Control Theory

Shaanxi, China

August 2012 - July 2016

## Experience

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### Deep-REAL Lab, University of Delaware

Research Assistant. Advisor: Prof. Xi Peng

- Multimodal Learning with Incomplete Modalities [AAAI'21]
- Robustness of Multimodal Transformer against Missing Modalities [CVPR'22]

Newark, DE USA

September 2019 - Present

### Computer & Information Sciences Department, University of Delaware

Teaching Assistant.

- CISC 683/483 (Data Mining), Fall 2020-2021, Spring 2021-2022.
- CISC 642/442 (Computer Vision), Fall 2020.

Newark, DE USA

August 2020 - Present

## Publications

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(\*indicate equal contribution)

### Conference Proceedings

- [2] Mengmeng Ma, Jian Ren, Long Zhao, Davide Testuggine, and Xi Peng, "Are Multimodal Transformers Robust to Missing Modality?". In: *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.
- [1] Mengmeng Ma, Jian Ren, Long Zhao, Sergey Tulyakov, Cathy Wu, and Xi Peng, "SMIL: Multimodal Learning with Severely Missing Modality". In: *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, 2021.

## Services

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### Conference Reviewer

- ACM International Conference on Multimedia (ACM MM), 2019-2022.

## Honors & Awards

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May 2021 **Distinguished Graduate Student Award**, Computer & Information Sciences Department, University of Delaware

Newark, DE

## Skills

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**Programming Languages** Python, C/C++, Matlab, HTML/CSS  
**Frameworks** PyTorch, TensorFlow, OpenCV  
**Tools and Platforms** Linux, Windows, Mac OS, Git, Vim, L<sup>A</sup>T<sub>E</sub>X