

Zixian Ma

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EDUCATION

University of Washington

PhD in Computer Science and Engineering

9/2023 – now

Research Areas: Multi-modal foundation models, human-AI interaction

Stanford University

BS with Honors and MS in Computer Science; Minor in Biology; GPA: 3.97

9/2018 – 6/2022

Courses: Artificial Intelligence: Principles and Techniques, Machine Learning, Natural Language Understanding, From Languages to Information, Convolutional Neural Network for Visual Recognition, Reinforcement Learning, Machine Learning with Graphs, Introduction to Human-Computer Interaction Design, Web Applications, Virtual People

AWARDS

TwoSigma PhD Fellowship Winner

2026

Qualcomm Innovation Fellowship Winner

2025

The Firestone Medal for Excellence in Undergraduate Research (top 10% of Honors Theses across all disciplines)

2022

The Ben Wegbreit Prize for Undergraduate CS Research (The CS Department's Best Honors Thesis award)

2022

RESEARCH EXPERIENCE

UW Raivn Lab with Prof. Ranjay Krishna, Prof. Ali Farhadi

Sep 2023 – now

Stanford Vision and Learning Lab with Prof. Li Fei-Fei

Apr 2020 – Jun 2022

Stanford Human-Computer Interaction Group with Prof. Michael Bernstein

Apr 2022 – Sep 2022

INDUSTRY EXPERIENCE

AI2 Asta Team (Scientific Discovery), with Prof. Daniel Weld and Joseph Chang

Jun 2026 – Sep 2026

AI2 PRIOR Team (Computer Vision), with Prof. Ranjay Krishna

Jun 2025 – Sep 2025

Salesforce AI Research – Research Intern with Shelby Heinecke and Juan Carlos Niebles

Jun 2024 – Sep 2024

Google Research – Research Intern

Aug 2022 – Nov 2022

Meta – Software Engineer @ Facebook Feed Ranking

Dec 2022 – May 2023

Facebook (currently Meta) – Software Engineering Intern

Jun 2021 – Aug 2021

PUBLICATIONS

VFIG: Vectorizing Complex Figures in SVG with Vision-Language Models

2026

Qijia He*, Xunmei Liu*, Hammaad Memon*, Ziang Li*, **Zixian Ma***, Jaemin Cho, Jason Ren, Daniel S Weld, Ranjay
NeurIPS 2026 Datasets and Benchmarks

JobBench: Aligning Agent Work With Human Will

2026

Yuetai Li, Yichen Feng, Zhangchen Xu, **Zixian Ma**, Kaiyuan Zheng, Fengqing Jiang, Xinghua Sun, Rulin Shao, Zichen Chen, Yue Huang, Xinyang Han, Brian Lee, Kayla Xu, Shenglai Zeng, Hang Hua, Xiangliang Zhang, Basel Alomair, Ranjay Krishna, Luke Zettlemoyer, Pang Wei Koh, Bhaskar Ramasubramanian, Luyao Niu, Xiang Yue, Radha Poovendran

NeurIPS 2026 Datasets and Benchmarks

MolmoWeb: Open Visual Web Agent and Open Data for the Open Web

2026

Tanmay Gupta*, Piper Wolters*, **Zixian Ma***, Peter Sushko*, Rock Yuren Pang, Yue Yang, Jason Ren, Harsh Trivedi, Taira Anderson, Winson Han, Ranjay Krishna

ECCV 2026

- MolmoPoint: Better Pointing for VLMs with Grounding Tokens** 2026
Christopher Clark, Yue Yang, Jae Sung Park, **Zixian Ma**, Jieyu Zhang, Rohun Tripathi, Mohammadreza Salehi, Sangho Lee, Taira Anderson, Winson Han, Ranjay Krishna
ECCV 2026 | [Oral Presentation](#)
- Molmo2: Open Weights and Data for Vision-Language Models with Video Understanding and Grounding** 2026
Christopher Clark*, Jieyu Zhang*, **Zixian Ma***, Jae Sung Park, Mohammadreza Salehi, Rohun Tripathi, Sangho Lee, Zhongzheng Ren, Chris Dongjoo Kim, Yinuo Yang, Vincent Shao, Yue Yang, Weikai Huang, Ziqi Gao, Taira Anderson, Jianrui Zhang, Jitesh Jain, George Stoica, Winson Han, Ali Farhadi, Ranjay Krishna
CVPR 2026 | [Oral Presentation & Best Paper Candidate](#)
- SAGE: Training Smart Any-Horizon Agents for Long Video Reasoning with Reinforcement Learning** 2026
Jitesh Jain, Jialuo Li, **Zixian Ma**, Jieyu Zhang, Chris Dongjoo Kim, Sangho Lee, Rohun Tripathi, Tanmay Gupta, Christopher Clark, Humphrey Shi
CVPR 2026
- Unfolding Spatial Cognition: Evaluating Multimodal Models on Visual Simulations** 2026
Linjie Li, Mahtab Bigverdi, Jiawei Gu, **Zixian Ma**, Yinuo Yang, Ziang Li, Yejin Choi, Ranjay Krishna
ICLR 2026
- LATTE: Learning to Think with Vision Specialists** 2025
Zixian Ma, Jianguo Zhang, Zhiwei Liu, Jieyu Zhang, Juntao Tan, Manli Shu, Juan Carlos Niebles, Shelby Heinecke, Huan Wang, Caiming Xiong, Ranjay Krishna, Silvio Savarese
EMNLP 2025 | [Oral Presentation](#)
- Synthetic Visual Genome** 2025
Jae Sung Park, **Zixian Ma**, Linjie Li, Chenhao Zheng, Cheng-Yu Hsieh, Ximing Lu, Khyathi Chandu, Quan Kong, Norimasa Kobori, Ali Farhadi, Yejin Choi, Ranjay Krishna
CVPR 2025
- Coarse Correspondence Elicit 3D Spacetime Understanding in Multimodal Language Model** 2025
Benlin Liu*, Yuhao Dong*, Yiqin Wang*, **Zixian Ma**, Yansong Tang, Luming Tang, Yongming Rao, Wei-Chiu Ma, Ranjay Krishna
CVPR 2025
- m&m's: A Benchmark to Evaluate Tool-Use for multi-step multi-modal Tasks** 2024
Zixian Ma, Weikai Huang, Jieyu Zhang, Tanmay Gupta, Ranjay Krishna
ECCV 2024 | Synthetic Data for Computer Vision Workshop
- Task Me Anything** 2024
Jieyu Zhang, Weikai Huang*, **Zixian Ma***, Oscar Michel, Dong He, Tanmay Gupta, Wei-Chiu Ma, Ali Farhadi, Aniruddha Kembhavi, Ranjay Krishna
NeurIPS 2024 Datasets and Benchmarks | [Oral Presentation @ Video-Language Models Workshop](#)
- NaturalBench: Evaluating Vision-Language Models on Natural Adversarial Samples** 2024
Baiqi Li*, Zhiqiu Lin*, Wenxuan Peng*, Jean de Dieu Nyandwi*, Daniel Jiang, **Zixian Ma**, Simran Khanuja, Ranjay Krishna, Graham Neubig, Deva Ramanan
NeurIPS 2024 Datasets and Benchmarks
- CREPE: Can Foundation Vision-Language Models Reason Compositionally?** 2023
Zixian Ma*, Jerry Hong*, Mustafa Omer Gul*, Mona Gandhi, Irena Gao, Ranjay Krishna
CVPR 2023 | [Highlight](#)

- SugarCREPE: Fixing Hackable Benchmarks for Vision-Language Compositionality** 2023
Cheng-Yu Hsieh*, Jieyu Zhang*, **Zixian Ma**, Aniruddha Kembhavi, Ranjay Krishna
NeurIPS 2023 Datasets and Benchmarks
- ELIGN: Expectation Alignment as a Multi-Agent Intrinsic Reward** 2022
Zixian Ma, Rose E. Wang, Li Fei-Fei, Michael Bernstein, Ranjay Krishna
NeurIPS 2022
- Model Sketching: Centering Concepts in Early-Stage Machine Learning Model Design** 2022
Michelle Lam, **Zixian Ma**, Anne Li, Izequiel Freitas, Dakuo Wang, James Landay, Michael Bernstein
CHI 2023
- OpenAttack: An Open-source Textual Adversarial Attack Toolkit** 2021
Guoyang Zeng, Fanchao Qi, Qianrui Zhou, Tingji Zhang, **Zixian Ma**, Bairu Hou, Yuan Zang, Zhiyuan Liu, Maosong Sun
The Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th
ACL 2021: System Demonstrations

SKILLS

Technical

Python, Pytorch, TensorFlow, C++, C, R, HTML&CSS, JavaScript, React, SQL

Language

English, Chinese (Mandarin and Cantonese)