

Ziyang Wang

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Education

University of North Carolina at Chapel Hill

Ph.D. Candidate in Computer Science, advised by Prof. Mohit Bansal.

Chapel Hill, NC

Aug. 2022 - Exp. May. 2027

University of North Carolina at Chapel Hill

M.S. in Computer Science, during Ph.D. study.

Chapel Hill, NC

Aug. 2022 - Exp. Dec. 2024

University of Electronic Science and Technology of China

Bachelor of Engineer, Major: Software Engineering. Overall GPA: 3.92.

Chengdu, China

Sept. 2018 - Jun. 2022

Research Interest

My main research interest is video-language understanding and multimodal AI. Particularly, I am interested in the challenge of reasoning over long and complex videos.

Work Experience

UNC-NLP

Graduate Research Assistant

Chapel Hill, NC

Aug. 2022 - PRESENT

- Advised by Prof. Mohit Bansal, also work closely with Prof. Gedas Bertasius
- Built models to tackle challenging video understanding tasks like retrieval and long video understanding.
- Published several academic papers in CV/NLP conferences including ICCV, EACL, EMNLP.

Salesforce AI Research

Research Intern

Palo Alto, CA

May. 2025 - Feb. 2026

- Advised by Dr. Juan Carlos Niebles (manager), Dr. Michael S. Ryoo, Dr. Junnan Li and Dr. Honglu Zhou.
- Work on the agentic long video understanding.
- Finish the project "Active Video Perception: Iterative Evidence Seeking for Agentic Long Video Understanding".

Meta FAIR Perception

Research Intern

Menlo Park, CA

May. 2024 - Dec. 2024

- Advised by Dr. Ronghang Hu (manager), Dr. Christoph Feichtenhofer, Dr. Po-Yao (Bernie) Huang and Dr. Daniel Bolya.
- Work on the next generation video foundation encoders.
- Work on long video encoder training and zero-shot application for short video encoder on long video tasks.

Amazon Alexa AI

Applied Scientist Intern

Seattle, WA

May. 2023 - Oct. 2023

- Advised by Dr. Heba Elfardy (manager), Dr. Kevin Small, Dr. Markus Dreyer
- Improved the multimodal large language model's ability to retrieve both visual and textual outputs.
- Published the paper named "Unified Embeddings for Multimodal Retrieval via Frozen LLMs" in EACL2024 (findings).

Tsinghua University

Research Intern, advised by Prof. Jingjing Liu

Beijing, China

Oct. 2021 - May. 2022

- Worked on a project to improve the visual question answering ability of the MLLMs.
- Also work on the project that focuses on Vehicle-Infrastructure Cooperative 3D Object Detection.

Papers

2026

EgoMemReason: A Memory-Driven Reasoning Benchmark for Long-Horizon Egocentric Video Understanding

Ziyang Wang*, Yue Zhang*, Shoubin Yu, Ce Zhang, Zengqi Zhao, Jaehong Yoon, Hyunji Lee, Gedas Bertasius, Mohit Bansal

Preprint

2026

Multimodal Fact-Level Attribution for Verifiable Reasoning

David Wan, Han Wang, Ziyang Wang, Elias Stengel-Eskin, Hyunji Lee, Mohit Bansal

Seoul, South

Korea

ICML 2026

2026 **Active Video Perception: Iterative Evidence Seeking for Agentic Long Video Understanding** Denver, USA
Ziyang Wang, Honglu Zhou, Shijie Wang, Junnan Li, Caiming Xiong, Silvio Savarese, Mohit Bansal, Michael S. Ryoo, Juan Carlos Niebles

CVPR 2026 Findings

2026 **SiLVR: A Simple Language-based Video Reasoning Framework**
Ce Zhang*, Yan-Bo Lin*, **Ziyang Wang**, Mohit Bansal, Gedas Bertasius

TMLR 2026

2026 **TimeRefine: Temporal Grounding with Time Refining Video LLM** Tucson, USA
Xizi Wang, Feng Cheng, **Ziyang Wang**, Huiyu Wang, Md Mohaiminul Islam, Lorenzo Torresani, Mohit Bansal, Gedas Bertasius, David Crandall

WACV 2026

2025 **Video-RTS: Rethinking Reinforcement Learning and Test-Time Scaling for Efficient and Enhanced Video Reasoning** Suzhou, China
Ziyang Wang*, Jaehong Yoon*, Shoubin Yu, Md Mohaiminul Islam, Gedas Bertasius, Mohit Bansal

EMNLP 2025 (Main)

2025 **MEXA: Towards General Multimodal Reasoning with Dynamic Multi-Expert Aggregation** Suzhou, China
Shoubin Yu*, Yue Zhang*, **Ziyang Wang**, Jaehong Yoon, Mohit Bansal

EMNLP 2025 (Findings)

2025 **VideoTree: Adaptive Tree-based Video Representation for LLM Reasoning on Long Videos** Nashville, USA
Ziyang Wang*, Shoubin Yu*, Elias Stengel-Eskin*, Jaehong Yoon, Feng Cheng, Gedas Bertasius, Mohit Bansal

CVPR 2025

2025 **DAM: Dynamic Adapter Merging for Continual Video QA Learning** Tucson, USA
Feng Cheng*, **Ziyang Wang***, Yi-Lin Sung, Yan-Bo Lin, Mohit Bansal, Gedas Bertasius

WACV 2025

2024 **Unified Embeddings for Multimodal Retrieval via Frozen LLMs** Malta
Ziyang Wang, Heba Elfardy, Markus Dreyer, Kevin Small, Mohit Bansal

EACL 2024 (Findings)

2024 **A Simple LLM Framework for Long-Range Video Question-Answering** Miami, USA
Ce Zhang, Taixi Lu, Md Mohaiminul Islam, **Ziyang Wang**, Shoubin Yu, Mohit Bansal, Gedas Bertasius

EMNLP 2024 (Main)

2023 **Unified Coarse-to-Fine Alignment for Video-Text Retrieval** Paris, France
Ziyang Wang, Yi-Lin Sung, Feng Cheng, Gedas Bertasius, Mohit Bansal

ICCV 2023

2022 **Language-Augmented Pixel Embedding for Generalized Zero-Shot Learning** Journal
Ziyang Wang, Yunhao Gou, Jingjing Li, Lei Zhu, Heng Tao Shen

TCSVT 2022

2021 **Region Semantically Aligned Network for Zero-Shot Learning** Virtual
Ziyang Wang*, Yunhao Gou*, Jingjing Li, Yu Zhang, Yang Yang

CIKM 2021 (long oral)

Service

Top CV/NLP conferences

Reviewer

- Engaged in the peer-review process in ECCV, ICLR, CVPR, COLM, WACV, ACL Rolling Reviews, IJCV.

T4V workshop @ CVPR 2023 & 2024 & 2025 & 2026

Organizer and Program Committee

- Co-organize the Transformers for Vision (T4V) workshop @ CVPR 2025 and 2026.
- Worked as a program committee member to help the reviewing process and other aspect of the workshop (2023 and 2024).

Honor

Bloomberg Data Science Ph.D. Fellowship Award

Bloomberg L.P.

- Recognized for my research in long context multimodal understanding and multimodal agents.

New York City, NY

March. 2026