

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

Papers

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|------|--|----------------|
| 2025 | SiLVR: A Simple Language-based Video Reasoning Framework
Ce Zhang*, Yan-Bo Lin*, Ziyang Wang , Mohit Bansal, Gedas Bertasius | Preprint |
| | TimeRefine: Temporal Grounding with Time Refining Video LLM | |
| 2025 | Xizi Wang, Feng Cheng, Ziyang Wang , Huiyu Wang, Md Mohaiminul Islam, Lorenzo Torresani, Mohit Bansal, Gedas Bertasius, David Crandall | Preprint |
| | Video-RTS: Rethinking Reinforcement Learning and Test-Time Scaling for Efficient and Enhanced Video Reasoning | |
| 2025 | Ziyang Wang* , Jaehong Yoon*, Shoubin Yu, Md Mohaiminul Islam, Gedas Bertasius, Mohit Bansal, EMNLP 2025 (Main) | Suzhou, China |
| 2025 | MEXA: Towards General Multimodal Reasoning with Dynamic Multi-Expert Aggregation
Shoubin Yu*, Yue Zhang*, Ziyang Wang , Jaehong Yoon, Mohit Bansal, EMNLP 2025 (Findings) | Suzhou, China |
| 2025 | VideoTree: Adaptive Tree-based Video Representation for LLM Reasoning on Long Videos
Ziyang Wang* , Shoubin Yu*, Elias Stengel-Eskin*, Jaehong Yoon, Feng Cheng, Gedas Bertasius, Mohit Bansal, CVPR 2025 | Nashville, USA |
| 2025 | DAM: Dynamic Adapter Merging for Continual Video QA Learning
Feng Cheng*, Ziyang Wang* , Yi-Lin Sung, Yan-Bo Lin, Mohit Bansal, Gedas Bertasius, WACV 2025 | Tucson, USA |
| 2024 | Unified Embeddings for Multimodal Retrieval via Frozen LLMs
Ziyang Wang , Heba Elfardy, Markus Dreyer, Kevin Small, Mohit Bansal, EACL 2024 (Findings) | Malta |
| 2024 | A Simple LLM Framework for Long-Range Video Question-Answering
Ce Zhang, Taixi Lu, Md Mohaiminul Islam, Ziyang Wang , Shoubin Yu, Mohit Bansal, Gedas Bertasius, EMNLP 2024 (Main) | Miami, USA |
| 2023 | Unified Coarse-to-Fine Alignment for Video-Text Retrieval
Ziyang Wang , Yi-Lin Sung, Feng Cheng, Gedas Bertasius, Mohit Bansal, ICCV 2023 | Paris, France |
| 2022 | Language-Augmented Pixel Embedding for Generalized Zero-Shot Learning
Ziyang Wang , Yunhao Gou, Jingjing Li, Lei Zhu, Heng Tao Shen, IEEE Transactions on Circuits and Systems for Video Technology (TCSVT 2022) | Journal |
| 2021 | Region Semantically Aligned Network for Zero-Shot Learning
Ziyang Wang* , Yunhao Gou*, Jingjing Li, Yu Zhang, Yang Yang, CIKM 2021, long oral | Virtual |

Work Experience

UNC-NLP

Graduate Research Assistant, advised by Prof. Mohit Bansal, also work closely with Prof. Gedas Bertasius

Chapel Hill, NC

Aug. 2022 - PRESENT

- 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

- Advised by Dr. Juan Carlos Niebles (manager), Dr. Michael S. Ryoo, Dr. Junnan Li and Dr. Honglu Zhou.
- Work on the agentic video understanding via tool calling and efficient video inference.

Palo Alto, CA

May. 2025 - Dec. 2025

Meta FAIR Perception

Research Intern

- 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 model.
- Work on long video encoder training and zero-shot application for short video encoder on long video tasks.

Menlo Park, CA

May. 2024 - Dec. 2024

Amazon Alexa AI

Applied Scientist Intern

- 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).

Seattle, WA

May. 2023 - Oct. 2023

Tsinghua University

Research Intern, advised by Prof. Jingjing Liu

- 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.

Beijing, China

Oct. 2021 - May. 2022

Service

Top CV/NLP conferences

Reviewer

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

Transformers for Vision (T4V) workshop @ CVPR 2023 & 2024 & 2025

Organizer and Program Committee

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