

Ce Zhang

✉ cezhang@cs.unc.edu | 🏠 [ceezh.github.io](https://github.com/ceezh) | 🐦 twitter.com/cezhhh | 🎓 [Google Scholar](#)

EDUCATION

UNC-Chapel Hill

Chapel Hill, NC, US

Ph.D. student in Computer Science, GPA: 4.0 / 4.0

Aug. 2023 – Present

- Advisor: [Prof. Gedas Bertasius](#)

Brown University

Providence, RI, US

M.S. in Computer Science, GPA: 3.75 / 4.0

Aug. 2021 – May 2023

- Advisor: [Prof. Chen Sun](#)

Southeast University

Nanjing, Jiangsu, China

B.S. in Computer Science, GPA: 3.75 / 4.0, Rank: Top 10%

Aug. 2016 – Jun. 2020

RESEARCH INTEREST

I'm broadly interested in Computer Vision, Multimodal learning and Robotics. Currently, I'm mainly working on **video understanding**, with a focus on leveraging **foundation models** (LLMs, VLMs, etc.) to solve multiple video understanding tasks.

ACADEMIC EXPERIENCE

Research Assistant

Aug. 2023 – Present

UNC-Chapel Hill, Advisor: [Prof. Gedas Bertasius](#)

Chapel Hill, NC

- Proposed SiLVR, a training-free language-based video reasoning framework that transforms video and speech into language and applies LLMs for video reasoning. SiLVR achieves state-of-the-art performance on multiple video reasoning benchmarks such as Video-MMMU and EgoLife. (**arXiv 2025**) [paper link](#)
- Curated a large-scale video dataset for fine-grained basketball skill estimation with over 4000 hours and 32K basketball players. Benchmarked multiple state-of-the-art video models on the proposed dataset. (**CVPR 2025**) [paper link](#)
- Proposed a framework for long-range videoQA by decomposing videoQA into short-term visual captioning and long-range language modeling. Achieved SOTA zero-shot videoQA performance on EgoSchema, NeXT-QA, IntentQA and NeXT-GQA. (**EMNLP 2024**) [paper link](#)

Research Assistant

Apr. 2022 – May 2023

Brown University, Advisor: [Prof. Chen Sun](#)

Providence, RI

- Represent the video with discretized action labels and utilized LLMs for reasoning. Achieved SOTA long-term action anticipation performance on Ego4D, EPIC-Kitchens-55 and EGTEA Gaze+. (**ICLR 2024**) [paper link](#)
- Extracted task-specific object-centric representations from pretrained models (e.g. GLIP). Utilized object-centric representations for long-term action anticipation. Achieved competitive results on Ego4D, 50Salads and EGTEA Gaze+. (**WACV 2024**) [paper link](#)
- Condensed expert trajectory demonstrations into useful representations for policy learning. Achieved competitive performance on AntMaze, FrankaKitchen and Locomotion. (**NeurIPS 2023**) [paper link](#)

INDUSTRY EXPERIENCE

Research Scientist Intern

May 2025 – Aug. 2025

Google DeepMind, Mentor: [Dahun Kim](#)

Mountain View, CA

- Worked on long-form video temporal grounding and question answering. Designed and implemented a training-free, multi-tier coarse-to-fine framework that significantly improves the temporal grounding ability of multimodal large language models (MLLMs), achieving both higher effectiveness and efficiency.

Research Scientist Intern

May 2024 – Dec. 2024

Meta FAIR, Mentor: [Satwik Kottur](#)

Menlo Park, CA

- Augmented long-horizon video-based planning ability of large VLMs. Designed multiple auxiliary tasks (e.g., goal prediction, state prediction) and trained the model on all tasks jointly. Leveraged Multi-token Prediction to model the structured action space. Achieved SOTA performance on COIN, CrossTask and Ego4D. (**arXiv, 2025**) [link](#)

Machine Learning Engineer Intern

Mar. 2021 – July 2021

QCraft

Beijing, China

- Worked on 3D Multi-Object Tracking for vehicles and pedestrians by fusing 2D and 3D appearance feature (from ResNet and MLP) and 2D motion feature (from Kalman Filter).

Machine Learning Engineer Intern

Feb. 2020 – July 2020

Momenta

Suzhou, China

- Generated pseudo labels for 2D facial key points by fusing 2D detection from multi-view cameras. Bootstrapped the model by training on pseudo labels.

PUBLICATION

- *Ce Zhang**, *Yan-Bo Lin**, *Ziyang Wang*, *Mohit Bansal*, *Gedas Bertasius*.
SiLVR: A Simple Language-based Video Reasoning Framework (**arXiv 2025**) [paper link](#)
- *Ce Zhang*, *Yale Song*, *Ruta Desai*, *Michael Louis Iuzzolino*, *Joseph Tighe*, *Gedas Bertasius*, *Satwik Kottur*.
Enhancing Visual Planning with Auxiliary Tasks and Multi-token Prediction (**arXiv 2025**) [paper link](#)
- *Yulu Pan*, *Ce Zhang*, *Gedas Bertasius*.
BASKET: A Large-Scale Video Dataset for Fine-Grained Skill Estimation (**CVPR 2025**) [paper link](#)
- *Ce Zhang**, *Tairi Lu**, *Md Mohaiminul Islam*, *Ziyang Wang*, *Shoubin Yu*, *Mohit Bansal*, *Gedas Bertasius*.
A Simple LLM Framework for Long-Range Video Question-Answering (**EMNLP 2024**) [paper link](#)
- *Qi Zhao**, *Shijie Wang**, *Ce Zhang*, *Changcheng Fu*, *Minh Quan Do*, *Nakul Agarwal*, *Kwonjoon Lee*, *Chen Sun*.
AntGPT: Can Large Language Models Help Long-term Action Anticipation from Videos? (**ICLR 2024**) [paper link](#)
- *Ce Zhang**, *Changcheng Fu**, *Shijie Wang*, *Nakul Agarwal*, *Kwonjoon Lee*, *Chiho Choi*, *Chen Sun*.
Object-centric Video Representation for Long-term Action Anticipation (**WACV 2024**) [paper link](#)
- *Zilai Zeng*, *Ce Zhang*, *Shijie Wang*, *Chen Sun*.
Goal-Conditioned Predictive Coding as an Implicit Planner for Offline Reinforcement Learning (**NeurIPS 2023**) [paper link](#)

SERVICES

Conference Reviewer: NeurIPS 2025, ICCV 2025, CVPR 2025, ECCV 2024 (**Outstanding Reviewer Award**), ACL Rolling Review (June 2024, Dec. 2024)
Journal Reviewer: IEEE TCSVT
Workshop Organizer: [T4V @ CVPR 2025](#), [T4V @ CVPR 2024](#)

TECHNICAL SKILLS

Languages: Python, C/C++, Go
Deep Learning Frameworks: PyTorch, TensorFlow
Other: Slurm, Git, Docker