

Ce Zhang

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EDUCATION

UNC-Chapel Hill

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

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

Chapel Hill, NC, US

Aug. 2023 – Present

Brown University

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

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

Providence, RI, US

Aug. 2021 – May 2023

Southeast University

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

Nanjing, Jiangsu, China

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

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

Aug. 2023 – Present

Chapel Hill, NC

- 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**)
- 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**) [link](#)

Research Assistant

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

Apr. 2022 – May 2023

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**) [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**) [link](#)
- Condensed expert trajectory demonstrations into useful representations for policy learning. Achieved competitive performance on AntMaze, FrankaKitchen and Locomotion. (**NeurIPS 2023**) [link](#)

INDUSTRY EXPERIENCE

Research Scientist Intern

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

May 2024 – Dec. 2024

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. (**In Submission**)

Machine Learning Engineer Intern

QCraft

Mar. 2021 – July 2021

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

Momenta

Feb. 2020 – July 2020

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, Yale Song, Ruta Desai, Michael Louis Iuzzolino, Joseph Tighe, Gedas Bertasius, Satwik Kottur.*
Enhancing Visual Planning with Auxiliary Tasks and Multi-token Prediction (**In Submission**)
- *Yulu Pan, Ce Zhang, Gedas Bertasius.*
BASKET: A Large-Scale Video Dataset for Fine-Grained Skill Estimation (**CVPR 2025**)
- *Ce Zhang*, Taixi 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, Kwongjoon 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, Kwongjoon 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: ICCV 2025, CVPR 2025, ECCV 2024 (**Outstanding Reviewer Award**), ACL Rolling Review (June 2024, Dec. 2024)
Journal Reviewer: IEEE TCSVT
Workshop Organizer: [T4V @ CVPR 2024](#)

TECHNICAL SKILLS

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