

YUHAO SU

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Seeking 2027 full-time applied scientist roles in computer vision, multimodal learning, and generative AI.

EDUCATION

Northeastern University, Boston, USA

Sep. 2020 - May 2027 (expected)

Ph.D. Candidate in Computer Science, Khoury College of Computer Sciences

Thesis: Towards Practical AI Task Assistants: Video Understanding at Lower Cost

The University of Minnesota, Minneapolis, USA

Sep. 2018 - Jun. 2020

B.A. in Mathematics and Computer Science. Transferred from Shandong University in China.

EXPERIENCE

Research Intern, Samsung Research America

May 2026 - Aug. 2026

Advisor: Dr. Deen Dayal Mohan

Mountain View, CA, USA

- Research on **multimodal AI** with large vision-language models.

Research Intern, Vision and Robotics Team, UII America

May 2025 - Aug. 2025

Advisors: Dr. Zhongpai Gao, Dr. Anwesa Choudhuri and Dr. Ziyang Wu

Boston, MA, USA

- Introduced **MedVidBench**, a **large-scale multi-task medical video understanding dataset** with **531K** video-instruction pairs and **8 tasks** covering video, segment, and frame-level understanding.
- Developed **MedGRPO**, a **multi-task RL framework** with cross-dataset reward normalization for balanced training and medical LLM judge for caption evaluation. Improves over SFT baseline across tasks (e.g., **+0.074** mIoU@0.3 on temporal action grounding, **+0.588** LLM score on video summary). [[CVPR 2026](#)]

Graduate Research Assistant, NOVA Lab, Northeastern University

Sep. 2021 - Present

Advisor: Prof. Ehsan Elhamifar

Boston, MA, USA

- Developing **egocentric spatial binaural audio generation**: generating binaural spatial audio given egocentric video and text descriptions. [In progress]
- Developed an **interactive temporal action segmentation framework** that learns from user feedback to improve predictions without retraining. Improves edit distance **+10.9** to **+14.5**. [[ECCV 2026 submission](#)]
- Developed an **object correspondence framework** matching objects between egocentric (first-person) and exocentric (third-person) views. Improves IoU by **10.16%** (ego-to-exo) and **6.04%** (exo-to-ego). [[WACV 2026](#)]
- Developed a **two-stage active learning framework for temporal action segmentation** using minimal annotations. First selects diverse videos, then identifies the most representative frames for labeling. Achieving **95%** of full-supervision performance with only **0.35%** labeled frames. [[ECCV 2024](#)]

SELECTED PUBLICATIONS

Yuhao Su, Ehsan Elhamifar. “[Interactive Online Temporal Action Segmentation: Enabling Test-Time Learning from User Corrections](#),” ECCV 2026 submission.

Yuhao Su, Anwesa Choudhuri, Zhongpai Gao, Benjamin Planche, Van Nguyen Nguyen, Meng Zheng, Yuhan Shen, Arun Innanje, Terrence Chen, Ehsan Elhamifar, Ziyang Wu. “[MedGRPO: Multi-Task Reinforcement Learning for Heterogeneous Medical Video Understanding](#),” CVPR 2026.

Yuhao Su, Ehsan Elhamifar. “[RegionAligner: Bridging Ego-Exo Views for Object Correspondence via Unified Text-Visual Learning](#),” WACV, 2026.

Yuhao Su, Ehsan Elhamifar. “[Two-Stage Active Learning for Efficient Temporal Action Segmentation](#),” ECCV, 2024.

HONORS & AWARDS

Maximillian Lando Scholarship, the University of Minnesota

May 2019

Awarded for strong math performance by the School of Mathematics.

SERVICE

Teaching Assistant

CS6140 Machine Learning, Northeastern University

Reviewer/ Committee

CVPR, ICCV, TPAMI, IJCNN, ICASSP, APAH@ICCV2025

RESEARCH INTERESTS

Multimodal Learning: Vision+Language, Vision+Audio, Video LLMs, Audio Generation

Video Understanding: Temporal Action segmentation, Object correspondence, Video Captioning

Learning & Optimization: Reinforcement Learning, Active Learning, Human-in-the-loop, Feedback Learning