

DANNY TRAN

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Education

University of Texas, Austin

PhD in Computer Science, Advisor: [Kristen Grauman](#)

Aug. 2025 – Present

Austin, TX

University of California, Berkeley

Bachelor of Arts in Computer Science, Magna Cum Laude - GPA: 3.941

Aug. 2021 – Mar. 2025

Berkeley, CA

Research Interests

- Computer Vision
- World Modeling
- Planning
- Embodied Agents

Preprints

EgoExo-WM: Unlocking Exo Video for Ego World Models

Danny Tran*, Roberto Martín-Martín†, Kristen Grauman†

- Using exocentric video for egocentric world modeling.
- Body pose as the unifying bridge, conditioning exo to ego generation and as the action space.

Publications

Whole-Body Conditioned Egocentric Video Prediction | *NeurIPS 2025*

Yutong Bai*, Danny Tran*, Amir Bar*, Yann LeCun†, Trevor Darrell†, Jitendra Malik†

- Predicting Egocentric Video from human Actions (PEVA) from past video and relative 3D body pose actions.
- Exploring the challenges of modeling complex real-world environments and embodied behavior through human-centric video prediction.

Navigation World Models | *CVPR 2025 (Best Paper Honorable Mention)*

Amir Bar, Gaoyue Zhou, Danny Tran, Trevor Darrell, Yann LeCun

- A controllable video generation model that predicts observations based on past observations and navigation action.
- NWM exhibits improved navigation planning skills either by planning with Cross Entropy Method (CEM) or by ranking proposals from an external navigation policy.

EgoPet: Egomotion and Interaction Data from an Animal's Perspective | *ECCV 2024*

Amir Bar, Arya Bakhtiar, Danny Tran, Antonio Loquercio, Jathushan Rajasegaran, Yann LeCun, Amir Globerson, Trevor Darrell

- A new egocentric video dataset of various animals.
- Two in-domain tasks that capture animal behavior, and a third to assess the utility of EgoPet as a pretraining resource for quadruped locomotion.

Experience

UT Computer Vision Lab

Graduate Research Assistant | Advisor: [Kristen Grauman](#)

Aug. 2025 – Present

Austin, TX

- World modeling and planning.
- Learning from exocentric video for egocentric world modeling.

Darrell Lab | Berkeley Artificial Intelligence Research

Undergraduate Researcher | Mentors: [Trevor Darrell](#), [Amir Bar](#), [Yutong Bai](#)

Jan. 2023 – May 2025

Berkeley, CA

- World modeling for navigation and whole-body control.
- Internet-scale dataset of egocentric animal videos, Visual Interaction Prediction, and Locomotion Prediction.

Projects

Reinforcement Learning for Public Transit | *Python*

- Optimized public transit scheduling with deep RL, exploring the impact of domain randomization on training agents for bus bunching. Evaluated efficacy of various RL algorithms such as PPO.

Technical Skills

Languages: Python, Java, C, C++, JavaScript, HTML/CSS, SQL, RISC-V Assembly

Technologies/Frameworks: Git, Google Cloud Platform (GCP), REST API, JUnit, Flask, three.js, PyTorch, scikit-learn, NumPy, CVXpy, Matplotlib