

DANNY TRAN

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Education

University of California, Berkeley

Aug. 2021 – Present

Bachelor of Arts in Computer Science - GPA: 3.938

Berkeley, CA

Relevant Coursework

- Deep Neural Networks
- Machine Learning
- Computer Graphics
- Deep RL
- Optimization
- Algorithms
- Computer Vision
- Probability
- Vector Calculus

Publications

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

- We introduce EgoPet, a new egocentric video dataset of various animals. We define two in-domain benchmark tasks that capture animal behavior, and a third benchmark to assess the utility of EgoPet as a pretraining resource to robotic quadruped locomotion.

Experience

Berkeley Artificial Intelligence Research Lab

Jan. 2023 – Present

Undergraduate Researcher

Berkeley, CA

- Experience with Masked Auto Encoding for Image and Video Generation in the context of prompting via inpainting.
- Experience with internet scale dataset of Egocentric Animal videos. Worked on Animal Visual Interaction prediction and Locomotion Prediction prediction from Internet Videos.

CS61B (Data Structures and Algorithms) Course Staff

Jan. 2022 – May 2022

Academic Intern

Berkeley, CA

- Guided students through labs and projects.
- Presented lab material and create a demonstration for lab.

S&R Resources

May 2020 – Aug. 2020

Front End Developer Intern

Chatsworth, CA

- Developed a new company website using HTML, CSS, and JavaScript. Implemented S&R's requests in the website design/UI.
- Included multiple pages, various links, particular sizing, and a responsive design.

Projects

Reinforcement Learning in Bus Bunching | *Python*

Aug. 2023 – Present

- Applying Deep Reinforcement Learning to Bus Bunching.
- Exploring the impact of Domain Randomization on training Bus Agent.
- Exploring PPO and various different RL algorithms. Furthermore, exploring various model variations such as incorporating transformers.

CT Scan Gender Classification | *PyTorch, Grad-Cam*

Dec. 2022 – June 2023

- Designed deep neural networks for classifying gender from CT scans.
- Experimented with various CNNs models and Vision Transformers to get best results.
- Achieved an accuracy of approximately 80%.
- Implemented and analyzed Grad-Cam visualizations in order to determine facial features.

NLP Processing Improvements | *Python*

Aug. 2022 – Nov. 2022

- Implemented various improvements to an NLP notebook on determining abnormality from medical report.
- Experimented with Data Augmentation using NLPAUG and balancing the abnormal cases of the training set.
- Examined different classification methods and performed hyperparameter search.

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL

Technologies/Frameworks: PyTorch, NumPy, CVXpy, Matplotlib, Git, JUnit