

Yanlai Yang

yy2694@nyu.edu • (510)561-4734 • LinkedIn : [yanlai-yang](#) • GitHub : [yanlai00](#) • [yanlai00.github.io](#)

EDUCATION

New York University (Ph.D. in Computer Science, GPA: 4.00) 2022 – Present

Research Interests: Lifelong Learning; Egocentric Vision. *Expect Graduation:* May 2027.

UC Berkeley (B.A. in Computer Science & Applied Math, GPA: 4.00) 2018 – 2022

Selected Coursework: Deep Reinforcement Learning; Robotics; Human-Robot Interaction; Machine Learning; Artificial Intelligence; Optimization; Probability; Discrete Math; Linear Algebra; Real Analysis; Numerical Analysis.

PUBLICATIONS AND PREPRINTS

- **Memory Storyboard: Leveraging Temporal Segmentation for Streaming Self-Supervised Learning from Egocentric Videos**
Yanlai Yang, Mengye Ren
Under Review
- **Reawakening Knowledge: Anticipatory Recovery from Catastrophic Interference via Structured Training**
Yanlai Yang, Matt Jones, Michael C. Mozer, Mengye Ren
To appear in Conference on Neural Information Processing Systems (NeurIPS), 2024
- **LifelongMemory: Leveraging LLMs for Answering Queries in Egocentric Videos**
Ying Wang, Yanlai Yang, Mengye Ren
Preprint, 2023
- **Egocentric Video Comprehension via Large Language Model Inner Speech**
Ying Wang, Dongdong Sun, Rui Chen, Yanlai Yang, Mengye Ren
3rd International Ego4D Workshop @ CVPR 2023
- **Pre-Training for Robots: Offline RL Enables Learning New Tasks from a Handful of Trials**
Aviral Kumar*, Anikait Singh*, Frederik Ebert*, Mitsuhiro Nakamoto, Yanlai Yang, Chelsea Finn, Sergey Levine
Robotics: Science and Systems (RSS), 2023
- **Bridge Data: Boosting Generalization of Robotic Skills with Cross-Domain Datasets**
Frederik Ebert*, Yanlai Yang*, Karl Schmeckpeper, Bernadette Bucher, Georgios Georgakis, Kostas Daniilidis, Chelsea Finn, Sergey Levine.
Robotics: Science and Systems (RSS), 2022
- **Multi-Task Learning Architectures and Applications**
Andy Yan, Xin Wang, Yanlai Yang, Roy Fox, Xiaolong Wang, Joseph Gonzalez
Technical Report, 2020
- **Garbage in, garbage out? Do machine learning application papers in social computing report where human-labeled training data comes from?**
R. Stuart Geiger, Kevin Yu, Yanlai Yang, Mindy Dai, Jie Qiu, Rebekah Tang, Jenny Huang.
Conference on Fairness, Accountability, and Transparency (ACM FAT), 2020*

RESEARCH EXPERIENCE

Visiting Researcher

Meta Platforms, Inc.

September 2024 – Current

Supervisor: Dr. Satya Narayan Shukla, Dr. Yinglong Xia

- Conduct research on multimodal large language models
- Design video captioning and video question answering algorithms for recommendation systems
- Build machine learning models for video understanding

Research Assistant

New York University

September 2022 – Current

Supervisor: Prof. Mengye Ren

- Conduct research on continual and lifelong machine learning models and large language models
- Design self-supervised machine learning methods for learning from egocentric videos
- Develop machine learning models for continuous adaptation to new environments

Research Assistant

University of California, Berkeley

May 2021 – August 2021

Supervisor: Prof. Sergey Levine

- Conduct research on data-driven robot learning
- Develop imitation learning and reinforcement learning methods for robotic manipulation tasks
- Run computational and robotic experiments for different robotics datasets and learning techniques

TEACHING EXPERIENCE

Section Leader (Machine Learning)

NYU Center for Data Science

January 2023 – May 2023

Supervisors: Prof. Mengye Ren, Dr. Ravid Shwartz-Ziv

Summer Session Lecturer (Intro to Artificial Intelligence)

EECS Department of UC Berkeley

June 2022 – August 2022

Supervisor: Dr. Michael Ball

Undergraduate Student Instructor (Intro to Artificial Intelligence)

EECS Department of UC Berkeley

January 2020 – May 2022

Supervisors: Prof. Anca Dragan, Prof. Stuart Russell

TECHNICAL SKILLS

Technical skills: Python (NumPy, Pytorch, TensorFlow, matplotlib, pandas); Java; ROS; git.

AWARDS AND HONORS

- **Percy Lionel Davis Award for Excellence in Scholarship in Mathematics** (UC Berkeley) 2022
- **Mark D. Weiser Excellence in Computing Scholarship** (UC Berkeley) 2021
- **Outstanding Graduate Student Instructor Award** (UC Berkeley) 2021
- **Best Machine Learning Project** in Cal Hacks 5.0 2018

PROFESSIONAL ACTIVITIES

Reviewer: CoLLAs 2024, NeurIPS 2024, WACV 2025, ICLR 2025, AISTATS 2025.