

Haoyu Xiong

[haoyu-x.github.io](https://github.com/haoyu-x)

Email : haoyux@berkeley.edu

Mobile : +86 173-0220-9017

EDUCATION

- **Tianjin University** Tianjin, China
B.E. in Biomedical Engineering; GPA: 86.55/100 *Sep. 2017 – Jun. 2021*
- **University of California, Berkeley** Berkeley, U.S.A.
Visiting student in EECS; Selected Courses: [Deep Unsupervised Learning \(A-\)](#) by Pieter Abbeel *Jan. 2020 – May. 2020*

PUBLICATION

- [1]: **Haoyu Xiong**, Quanzhou Li, Yun-Chun Chen, Homanga Bharadhwaj, Samarth Sinha, Animesh Garg.
Learning By Watching: Physical Imitation of Manipulation skills from Human Videos.
IEEE Int'l Conf. on Robotics and Automation(ICRA), May. 2021 Under Review [[Website](#)]

EXPERIENCE

- **University of Toronto & Vector Institute** Remotely
R.A., [People, AI, & Robots Lab](#) -Advisor: [Animesh Garg](#) *Mar. 2020 – Present*
 - **Focus:** Unsupervised Representation Learning, Imitation from Human Videos, Robotics
 - **Responsibilities:** Propose and implement an approach for physical imitation from human videos for robot manipulation tasks. Proposed method performs favorably against state-of-the-art approaches. Implement a series of Visual Imitation baselines, e.g., GAIL-based methods, AVID. Gain in-depth understanding of unsupervised translation models, unsupervised keypoint detection models, pixel-based RL.
- **Tianjin University** Tianjin, China
R.A., [Deep Reinforcement Learning Lab](#) -Advisor: [Jianye Hao](#) *Jun. 2019 – Present*
 - **Focus:** Goal-Conditioned RL, Imitation Learning
 - **Responsibilities:** Gain in-depth understanding of model-free RL algorithm baselines. Reading and analyzing state-of-the-art work on the topics of goal-conditioned RL/IL
- **Tianjin University** Tianjin, China
R.A., [TJU NeuroEngineering Lab](#) -Advisor: [Xingwei An](#) *Mar. 2018 – Dec. 2018*
 - **Focus:** Learning-based EEG signal classification

AWARDS AND HONORS

- [2019]: UC Berkeley Extension SAF Merit Scholarship
- [2018]: Outstanding student Award in Tianjin University
- [2018]: National Undergraduate Student Research Fund
- [2018]: First Prize in National Mathematics Competition, Tianjin division

PROGRAMMING SKILLS

- **Programming:** Python, C
- **Technologies:** Deep RL: OpenAI-gym, DM Control, Robosuite, Deep Learning: Pytorch
- **Languages:** English, Mandarin