

EDUCATION

- **ShanghaiTech University** Shanghai, China
B.Eng. in Computer Science and Technology; GPA: 3.77/4.00; Rank:17/248 Sept. 2020 – present
- **University of California, Berkeley** Berkeley, CA, US
Undergraduate Exchange Student in Computer Science; GPA: 3.92/4.0 Aug. 2022 – Mar. 2023

RESEARCH INTERESTS

I'm broadly interested in **Computer Vision**, **Machine Learning** and **Cognitive Science**, My current research focuses on the task of multi-object tracking(MOT), generative model and the representation of video-based human emotion in continuous dimension

PUBLICATION(* EQUAL CONTRIBUTION)

- **VEATIC: Video-based Emotion and Affect Tracking in Context Dataset** Under Review
Zhihang Ren Jefferson Ortega* Yifan Wang* Zhimin Chen, David Whitney, Yunhui Guo, Stella Yu*

RESEARCH EXPERIENCES

- **University of California, Berkeley** Berkeley, CA, US
Research Assistant in Whitney's Lab (Advisor: Prof. David Whitney, Prof. Stella Yu) Dec.2022 – present
 - **VEATIC: Video-based Emotion and Affect Tracking in Context Dataset** Mar. 2023 – Aug. 2023
 - * Construct a new video-based emotion and affect tracking dataset, which contains not only the characters, but also the context information.
 - * Build up a baseline model with Vision Transformer, to better learn and represent the emotion in continuous dimension
 - **Representation of Video-Based Human Emotion in Continuous Dimension** Aug. 2023 – present
 - * Construct a new method to better represent the VEATIC dataset
 - * Generalize the method to have a better capacity of representation to the human emotion in both continuous and discrete space
- **Massachusetts Institute of Technology** Cambridge, MA, US
Research Intern in Cocosci Lab (Advisor: Prof. Chuang Gan) Mar.2023 – present
 - **The Application of Diffusion Model In The Task Of Multi-Object Tracking** Mar. 2023 – present
 - * Construct a new tracking method to better deal with the ids problem caused by the missing tracking object
 - * Interacting the new method pipeline with diffusion model to obtain better performance

COMPETITION AND PROJECTS

- **RoboMaster Competition** Shezhen, China
Computer Vision team member Dec.2020 – Mar. 2021
 - **Auto-aim project**
 - * Construct the auto-aim system for the robot, which enables it to target enemies automatically
 - * Responsible for the communication between the upper computer and the underlying development boards

HONORS AND AWARDS

- **Robomaster competition national 2nd prize** 2020-2021
- **2021-2022 Merit Student in ShanghaiTech** 2022
- **2022-2023 Undergraduate International Exchange Special Scholarship in ShanghaiTech** 2023
- **Outstanding Individual Award of Social Practice Group in ShanghaiTech** 2021
- **Outstanding Individual Award of Industrial Practice Group in ShanghaiTech** 2022

SKILLS

- **Programming** - Python, C/C++, MATLAB, RISC-V, R, HTML
- **Tools & Frameworks** - PyTorch, OpenCV, git, LATEX, Markdown
- **Languages** - Mandarin(Native speaker), English(Fluent)