Yifan Wang

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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 by YOLO, which enables it to target enemies automatically.
    * Responsible for the communication between the upper computer and the underlying development boards.
    * Build a bridge between operators and the auto-aim system.

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)