

# Yifan Wang

NY, United States | +1 (631)-943-5849 | [yifan.wang.5@stonybrook.edu](mailto:yifan.wang.5@stonybrook.edu)

Homepage: <https://yfwang.me/>

## EDUCATION

### Stony Brook University

*Ph.D. in Computer Science*

Advisor : **Prof. Chenyu You**

**Research Focus:** Computer Vision, Machine Learning and Cognitive Science

*NY, United States*

*Aug. 2024 - present*

### ShanghaiTech University

*Bachelor in Computer Science*

Advisor : **Prof. Kan Ren**

**Overall GPA:** 3.77 / 4.00; **Rank:** 17 / 248

*Shanghai, China*

*Sept. 2020 - Jul. 2024*

### University of California, Berkeley

*Undergraduate Exchange Student in Computer Science*

**Overall GPA:** 3.92 / 4.00

*CA, United States*

*Aug. 2022 - Jun. 2023*

## INTERNSHIP

### NEC Labs America

*Research Intern in Media Analytics Department*

Advisor : **Dr. Ziyu Jiang**

**Research Focus:** Advanced scene simulation methodologies for autonomous driving

*CA, United States*

*May. 2025 - Aug. 2025*

## RESEARCH INTERESTS

My research interest broadly lies in Computer Vision, Machine Learning and Cognitive Science. I am intrigued by the intersection of cognitive science and machine learning, and I am committed to the development of reliable machine learning systems.

## PUBLICATION(\* EQUAL CONTRIBUTION)

### Ouroboros: Single-step Diffusion Models for Cycle-consistent Forward and Inverse Rendering

*ICCV 2025*

Shanlin Sun\*, **Yifan Wang\***, Hanwen Zhang\*, Yifeng Xiong, Qin Ren, Ruogu Fang, Xiaohui Xie, Chenyu You

### OTSurv: A Novel Multiple Instance Learning Framework for Survival Prediction with Heterogeneity-aware Optimal Transport

*MICCAI 2025*

Qin Ren, **Yifan Wang**, Ruogu Fang, Haibin Ling, Chenyu You

### Dissecting and Mitigating Diffusion Bias via Mechanistic Interpretability

*CVPR 2025*

Yingdong Shi\*, Changming Li\*, **Yifan Wang**, Yongxiang Zhao, Anqi Pang, Sibe Yang, Jingyi Yu, Kan Ren

## Discovering Influential Neuron Path in Vision Transformers

ICLR 2025

Yifan Wang, Yifei Liu, Yingdong Shi, Changming Li, Anqi Pang, Sibe Yang, Jingyi Yu, Kan Ren

## BEAT: Berkeley Emotion and Affect Tracking Dataset

Journal of Vision 24 (10), 1226-1226

Ana Hernandez, Zhihang Ren, Jefferson Ortega, Yifan Wang, Zhimin Chen, Yunhui Guo, Stella Yu, David Whitney

## EEGFormer: Towards Transferable and Interpretable Large-Scale EEG Foundation Model

AAAI 2024 (Spring Symposium Series)

Yuqi Chen, Kan Ren, Kaitao Song, Yansen Wang, Yifan Wang, Dongsheng Li, Lili Qiu

## Region-Based Emotion Recognition via Superpixel Feature Pooling

CVPR Workshop 2024

Zhihang Ren, Yifan Wang, Tsung-Wei Ke, Yunhui Guo, Stella Yu, David Whitney

## VEATIC: Video-based Emotion and Affect Tracking in Context Dataset

WACV 2024

Zhihang Ren\*, Jefferson Ortega\*, Yifan Wang\*, Zhimin Chen, David Whitney, Yunhui Guo, Stella Yu

---

## SERVICE

**Conference Reviewer:** NeurIPS 2025, MICCAI 2025, CVPR 2025.

**Journal Reviewer:** Pattern Recognition, TMI, TNNLS.

---

## AWARDS & HONORS

- |   |           |
|---|-----------|
| ➤ Outstanding Graduate in ShanghaiTech University   | 2024      |
| ➤ 2022-2023 Merit Student in ShanghaiTech University  | 2023      |
| ➤ 2022-2023 Undergraduate International Exchange Special Scholarship in ShanghaiTech University | 2023      |
| ➤ 2021-2022 Merit Student in ShanghaiTech University  | 2022      |
| ➤ Outstanding Individual Award of Industrial Practice Group in ShanghaiTech University          | 2022      |
| ➤ Outstanding Individual Award of Social Practice Group in ShanghaiTech University              | 2021      |
| ➤ Robomaster competition national 2nd prize   | 2020-2021 |

---

## TECHNICAL PROFICIENCIES

**Programming Languages:** Python, C/C++, MATLAB, RISC-V, CUDA, R, HTML, etc.

**Tools & Frameworks:** PyTorch, TensorFlow, JAX, OpenCV, git, Latex, Markdown, etc.

**Language:** Mandarin(Native speaker), English(Fluent).