

Yifan Wang

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

EDUCATION

Stony Brook University

Ph.D. in Computer Science

Advisor : **Prof. Chenyu You**

Research Focus: Computer Vision, Machine Learning, Cognitive Science and Medical Image Analysis

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

RESEARCH INTERESTS

My research interest broadly lies in Computer Vision, Machine Learning, Cognitive Science and Medical Image Analysis. My current research focuses on the decoding of brain signals and the potential applications of generative models. 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)

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: 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).