Yifan Wang

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EDUCATION

Stony Brook University *NY, United States*
Ph.D. in Computer Science *Aug. 2024 - present*
Advisor : Prof. Chenyu You
Research Focus: Computer Vision, Machine Learning, Cognitive Science and Medical Image Analysis

ShanghaiTech University *Shanghai, China*
Bachelor in Computer Science *Sept. 2020 - Jul. 2024*
Advisor : Prof. Kan Ren
Overall GPA : 3.77 / 4.00; Rank:17/248

University of California, Berkeley *CA, United States*
Undergraduate Exchange Student in Computer Science *Aug. 2022 - Jun. 2023*
Overall GPA : 3.92 / 4.00

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, Sibei Yang, Jingyi Yu, Kan Ren

Discovering Influential Neuron Path in Vision Transformers
ICLR 2025
Yifan Wang, Yifei Liu, Yingdong Shi, Changming Li, Anqi Pang, Sibei 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 Workshorp 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

Reviewer: TNNLS, TMI, CVPR 2025.

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).