

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, 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

Bosch Center for Artificial Intelligence

Research Intern

Advisor : **Dr. Xiaoqi Wang**

Research Project: World model for autonomous driving

CA, United States

May. 2026 - Aug. 2026

NEC Labs America

Research Intern in Media Analytics Department

Advisor : **Dr. Ziyu Jiang**

Research Project: Advanced scene simulation methodologies for autonomous driving

CA, United States

May. 2025 - Dec. 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)

Test-Time Registers as Global Priors for Tokenized Image Generation

ECCV 2026 | **Paper**

Cheng-Yao Hong*, **Yifan Wang***, Yuewei Lin, Chenyu You

VisReason: A Large-Scale Dataset for Visual Chain-of-Thought Reasoning

ECCV 2026 | **Paper**

Lingxiao Li, **Yifan Wang**, Xinyan Gao, Chen Tang, Xiangyu Yue, Chenyu You

NeuroSonic: Conditional Flow Matching for EEG-to-Speech Reconstruction

MICCAI 2026 | **Paper**

Wenhao Gao*, **Yifan Wang***, Yijia Ma, Carl Yang, Wen Li, Chenyu You

Let EEG Models Learn EEG

ICML 2026 | [Paper](#)

Yifan Wang, Yijia Ma, Wen Li, Chenyu You

HorizonForge: Driving Scene Editing with Any Trajectories and Any Vehicles

CVPR 2026 | [Paper](#)

Yifan Wang, Francesco Pittaluga, Zaid Tasneem, Chenyu You, Manmohan Chandraker, Ziyu Jiang

CSRv2: Unlocking Ultra-Sparse Embeddings

ICLR 2026 | [Paper](#)

Lixuan Guo, Yifei Wang, Tiansheng Wen, Yifan Wang, Aosong Feng, Bo Chen, Stefanie Jegelka, Chenyu You

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

ICCV 2025 | [Paper](#)

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 | [Paper](#)

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

Dissecting and Mitigating Diffusion Bias via Mechanistic Interpretability

CVPR 2025 | [Paper](#)

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 | [Paper](#)

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 | [Paper](#)

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) | [Paper](#)

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 | [Paper](#)

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 | [Paper](#)

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

SERVICE

Conference Reviewer: ICML 2026, CVPR 2025-2026, ICLR 2026-2027, NeurIPS 2025-2026, SIGGRAPH 2026, ECCV 2026, MICCAI 2025-2026, BMVC 2026, WACV 2027.

Journal Reviewer: IEEE Transactions on Circuits and Systems for Video Technology, Medical Image Analysis, Pattern Recognition, IEEE Transactions on Medical Imaging, IEEE Transactions on Neural Networks and Learning Systems, Transactions on Machine Learning Research.

AWARDS & HONORS

- IACS Doctoral Student Award 2026
- IEEE Transactions on Medical Imaging Bronze Distinguished Reviewer 2025
- 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).