Shifan Zhang

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Shanghai, China

EDUCATION

- **Shanghai Jiao Tong University (SJTU)** *Sept. 2022 - Present*
  Pursing Ph.D. in Computer Science and Engineering Shanghai, China
  ◦ Supervised by Prof. Hongzi Zhu
  ◦ GPA: 3.77 / 4.0
  ◦ Artificial Neural Network Theory (A+), Natural Language Understanding (A+), Statistical Learning Theory and Methods (A), Reinforcement Learning Theory and Algorithms (A-)

- **Huazhong University of Science and Technology (HUST)** *Sept. 2018 - Jun. 2022*
  B.Eng. in Electronic and Information Engineering. (Excellent Engineer Program) Wuhan, China
  ◦ GPA: 3.93 / 4.0

RESEARCH TOPICS

Collaborative Perception; Weakly-supervised Learning;

PROJECTS

- **CoPe: Taming Collaborative 3D Perception via Lite Network Attention across Mobile Agents.**
  Shifan Zhang, Hongzi Zhu, Yunzhe Li, Liang Zhang, Shan Chang, Minyi Guo.
  ◦ To enable efficient and accurate collaborative 3D perception among mobile agents, this paper proposes CoPe, a lightweight framework that selectively queries informative features via network attention.
  ◦ Accepted by *the 45th IEEE International Conference on Distributed Computing Systems (**ICDCS**), 2025.*

- **WISNet: Pseudo Label Generation on Unbalanced and Patch Annotated Waste Images.**
  Shifan Zhang, Hongzi Zhu, Yinan He, Minyi Guo, Ziyang Lou, Shan Chang.
  ◦ To facilitate automated waste sorting with minimal annotation effort, this paper introduces WISNet, a weakly-supervised pseudo label generation framework designed to train segmentation models from patch-level annotations.
  ◦ Accepted by *the IEEE/CVF Conference on Computer Vision and Pattern Recognition. (**CVPR**), 2025.*

- **Unleashing the Power of Task-Specific Directions in Parameter Efficient Fine-tuning.**
  Chongjie Si, Zhiyi Shi*, **Shifan Zhang**, Xiaokang Yang, Hanspeter Pfister, Wei Shen.*
  ◦ To explicitly leverage task-specific directions for efficient fine-tuning, this paper proposes LoRA-Dash to enhance downstream performance of large language models.
  ◦ Accepted by *the 13th International Conference on Learning Representations (**ICLR**), 2024.*

HONORS AND AWARDS

- **Excellent Student Leader Scholarship** *Sep. 2020*
  Huazhong University of Science and Technology Wuhan, China
- **Excellent Student Leader Scholarship** *Sep. 2019*
  Huazhong University of Science and Technology Wuhan, China

TEACHING ASSISTANT

- **CS1501 Programming Paradigms and Methods (C++)** *Fall 2023*
- **CS1501 Programming Paradigms and Methods (C++)** *Fall 2022*

SKILLS

- **Programming Languages:** Python
- **Software & Tools:** PyTorch, OpenCV, LaTeX