

SHAO ZHANG

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RESEARCH INTERESTS

Shao's research interests include **Human-AI Collaboration**, **HCI4AI** and **Multi-Agent Reinforcement Learning**. Specifically, she is now focusing on:

- Human-in-the-Loop data annotation,
- AI-in-the-Loop deployment in real world scenario,
- Cooperative AI in fully cooperative game,
- Human-AI team cooperation evaluation in MARL.

EDUCATION

Shanghai Jiao Tong University

Shanghai, China, Sep. 2021 - present

School of Electronic Information And Electrical Engineering

Doctor of Philosophy in Electronic Information (expected July, 2025)

Supervisor: **Prof. Ying WEN** and **Prof. Xinbing WANG**

The Hong Kong Polytechnic University

Hong Kong SAR, China, Sep. 2019 - Sep. 2020

School of Design

Master of Science in Multimedia and Entertainment Technology (Game Development stream)

Supervisor: Dr. William LIANG

Hunan University

Changsha, China, Sep. 2015 - Jun. 2019

School of Design

Bachelor of Engineering in Industrial Design

Supervisor: Prof. Sheng XIAO and Prof. Beibei ZHAN

PUBLICATIONS

*:equal contribution

[C1] Yang Li*, **Shao Zhang***, Jichen Sun, Yali Du, Ying Wen, Xinbing Wang, Wei Pan. **Cooperative Open-ended Learning Framework for Zero-shot Coordination**. Proceedings of the 40th International Conference of Machine Learning, ICML2023. (CCF-A)

[J1] **Shao Zhang**, Yuting Jia, Hui Xu, Ying Wen, Dakuo Wang, Luoyi Fu, Xinbing Wang, Chenghu Zhou. **GeoDeepShovel: A Platform for Building Scientific Database from Geoscience Literature with AI Assistance**. Geoscience Data Journal, 2023. (SCI)

[J2] Yuting Jia, **Shao Zhang**, Haiwen Wang, Ying Wen, Luoyi Fu, Huan Long, Xinbing Wang, Chenghu Zhou. **Investigating the geometric structure of neural activation spaces with convex hull approximations**. . Neurocomputing, 2022. (CCF-C, SCI)

[C2] Jihui Zeng, Beibei Zhan, **Shao Zhang**, Jiajun Bie, Sheng Xiao. **Keyword Analysis Visualization for Chinese Historical Texts**. Proceedings of the 12th International Symposium on Visual Information Communication and Interaction, VINCI2019. (EI)

PREPRINTS

*:equal contribution

[A1] Yang Li*, **Shao Zhang***, Jichen Sun, Wenhao Zhang, Yali Du, Ying Wen, Xinbing Wang, Wei Pan. **Tackling Cooperative Incompatibility for Zero-Shot Human-AI Coordination**. arxiv Preprint 2023.

[A2] **Shao Zhang**, Yuting Jia, Hui Xu, Dakuo Wang, Toby Jia-Jun Li, Ying Wen, Xinbing Wang, Chenghu Zhou. **KnowledgeShovel: An AI-in-the-Loop Document Annotation System for Scientific Knowledge Base Construction**. arxiv Preprint 2022.

[A3] **Shao Zhang**, Yuting Jia, Hui Xu, Ying Wen, Dakuo Wang, Xinbing Wang. **DeepShovel: An Online Collaborative Platform for Data Extraction in Geoscience Literature with AI Assistance**. arxiv Preprint 2022.

RESEARCH EXPERIENCE

IIOT Research Center, Shanghai Jiao Tong University

Jun. 2020 - Jul. 2021

Research Assistance

supervised by Prof. Ying WEN

Focused on Big-Data Visualization and Human-Computer Interaction

SERVICES

Student Volunteer, CHI2023

Hamburg, Germany, Apr. 2023