

# SHAO ZHANG

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## RESEARCH INTERESTS

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Shao's research interests include Human-AI Collaboration and Multi-agent System. Specifically, she is now focusing on:

- Human-in-the-Loop data annotation and AI-in-the-Loop deployment in real world scenario,
- Involving Large Language Models in Human-AI Collaboration,
- Zero-shot Coordination in Human-AI Collaboration,
- Bidirectional Alignment in Human-AI Team.

## EDUCATION

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**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**

**Northeastern University**

*Boston, USA, Sep. 2023 - present*

College of Arts, Media and Design

Visiting PhD Student

Supervisor: **Prof. Dakuo 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. Youyu JIANG, Prof. Sheng XIAO and Prof. Beibei ZHAN

## PUBLICATIONS

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\*:equal contribution

[C3] **Shao Zhang**, Jianing Yu, Xuhai Xu, Changchang Yin, Yuxuan Lu, Bingsheng Yao, Melanie Tory, Lace M. Padilla, Jeffrey Caterino, Ping Zhang, Dakuo Wang. **Rethinking Human-AI Collaboration in Complex Medical Decision Making: A Case Study in Sepsis Diagnosis**. In Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems, CHI '24. (CCF-A)

[C2] 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)

[J2] **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)

[J1] 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)

[C1] 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)

## PAPER IN SUBMISSION

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\*:equal contribution

[U4] **Shao Zhang**, Shihan Fu, Bin Lu, Yuxuan Lu, Toby Jia-Jun Li, Dakuo Wang, Ying Wen, Xinbing Wang, Chenghu Zhou. **From Dark Data to Open Data: Challenges and Practices for Data Integrators of Data-Driven Open Science Projects in Geoscience**, 2024.

[U3] Xihuai Wang, **Shao Zhang**, Wenhao Zhang, Wentao Dong, Ying Wen, Weinan Zhang. **Quantifying Zero-shot Coordination Capability with Behavior Preferring Agents**, 2024.

[U2] Ziqi Yang, Xuhai Xu, Bingsheng Yao, **Shao Zhang**, Ethan Rogers, Stephen Intille, Nawar Shara, Guodong (Gordon) Gao, Dakuo Wang. **Talk2Care: Facilitating Asynchronous Patient-Provider Communication with Large-Language-Model**, 2023.

[U1] 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**, 2023.

## PREPRINT

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[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.

[A1] **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

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**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

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**Student Volunteer, CHI2023**

*Hamburg, Germany, Apr. 2023*

**PC member, IUI2024**