Suyuan Liu

Hefei, China (+86)-15056936956 lsysue@mail.ustc.edu.cn

Education

University of Science and Technology of China (USTC) *Sept 2020 - Present*
Ph.D. student in Computer Science and Technology

- GPA: 3.93/4.3, 91.41/100
- Advisor: Prof. Xiang-Yang Li
- Research Interests: Ubiquitous Computing & User Behavior Modeling, Privacy-Preserving Computing

University of Science and Technology of China (USTC) *Sept 2016 – Jun 2020*
B.E. in Computer Science and Technology

- GPA: 3.46/4.3, 84.76/100
- Core Courses: Data Structures, Foundation of Algorithms, Principles of Computer Organization, Computer Architecture, Operating System, Compiler Theory

Publications

1. **AMoS: Autonomous Multimodal POI Standardization without Extra Annotation.**
Suyuan Liu, Jingmiao Zhang, Haikuo Yu, Yan Zhang, Yuetian Wang, Guobin Shen, Xiang-Yang Li.
In *IEEE International Conference on Computer Communications (INFOCOM)*, 2025.

2. **HideSeeker: Uncover the Hidden Gems in Obfuscated Images.**
Suyuan Liu, Lan Zhang, Haikuo Yu, Jiahui Hou, Kaiwen Guo, Xiang-Yang Li.
In *ACM Conference on Embedded Networked Sensor Systems (SenSys)*, 2022.

3. **SpeechGuard: Recoverable and Customizable Speech Privacy Protection.**
Jingmiao Zhang, ***Suyuan Liu***, Jiahui Hou, Zhiqiang Wang, Haikuo Yu, Xiang-Yang Li.
In *The 33th USENIX Security Symposium*, 2024.

Projects

Mobile App Usage Prediction *Nov 2023 – Dec 2024*
Huawei Technologies Co., Itd.

- *Object:* Predict users' next app usage with their long-term app usage data.
- Implemented time-series analysis and sequential learning techniques to common usage patterns across users, and incorporated individual usage habits to capture personalized preference.
- Achieved 83.70% Hit@5 with the general prediction model and 85.60% Hit@5 with the personalized model, demonstrating the effectiveness of combining universal and personalized patterns.

POI Description Standardization *Nov 2022 – Feb 2024*
Department of Internet of Things and Innovative Technologies, Alibaba Group

- *Object:* Develop an autonomous POI (Point of Interest) standardization system that dynamically updates with real-world changes.
- Designed an iterative clustering approach for candidate retrieval and a standardization paradigm that combines structured formatting rules with content diversity.
- Achieved 88.52% precision in POI query-candidate retrieval and 90.24% accuracy in standardized descriptions in our field study.

Awards & Honors

First-class Academic Scholarship, USTC *Sept 2024*
Outstanding Graduates of Anhui Province *June 2023*
National Scholarship (top 0.2% in China), Ministry of Education, China *Oct 2022*