Chaoran Chen

Curriculum Vitae

Website: https://www.chaoranchen.com/ Department of Computer Science and Engineering College of Engineering Email: cchen25@nd.edu Tel: (574) 378-6372 University of Notre Dame Notre Dame, IN 46556 USA Twitter: @CharlieCRChen

Research Interests

Human-Computer Interaction (HCI), Human-AI Interaction, LLM Privacy and Security.

Education

Ph.D. in Computer Science and Engineering University of Notre Dame, Notre Dame, IN Department of Computer Science and Engineering Advisors: Toby Jia-jun Li and Yanfang Ye	2022 – 2026
M.S. in Educational Technology and Applied Learning Sciences Carnegie Mellon University, <i>Pittsburgh, PA</i> Human Computer Interaction Institute, School of Computer Science	2021 – 2022
B.E. in Industrial Design Tongji University, Shanghai, China College of Design and Innovation elected Honors and Awards	2015 – 2020

Sel

Third prize of Tech Ethics Hackathon hosted by Notre Dame-IBM Technology Ethics Lab	2024
Best Implementation Award, MobileHCI 2022	2022
Merit Scholarship (\$7,000), Carnegie Mellon University	2021

Major Refereed Conference Papers

(* indicate equal contribution)

[C.9]Why Am I Seeing This: Democratizing End User Auditing for Online Content Recommendations

Chaoran Chen, Leyang Li, Luke Cao, Yanfang Ye, Tianshi Li, Yaxing Yao, and Toby Jia-jun Li Proceedings of the 38th Annual ACM Symposium on User Interface Software and Technology (UIST 2025)

[C.8]Towards a Design Guideline for RPA Evaluation: A Survey of Large Language **Model-Based Role-Playing Agents**

Chaoran Chen, Bingsheng Yao, Ruishi Zou, Wenyue Hua, Weimin Lyu, Toby Jia-jun Li, and Dakuo Wang

Findings of the Association for Computational Linguistics (ACL 2025)

[C.7] CLEAR: Towards Contextual LLM-Empowered Privacy Policy Analysis and Risk Generation for Large Language Model Applications

Chaoran Chen, Daodao Zhou, Yanfang Ye, Toby Jia-jun Li, and Yaxing Yao *Proceedings of the 30th ACM Conference on Intelligent User Interfaces (IUI 2025)*

[C.6] Careful About What App Promotion Ads Recommend! Detecting and Explaining Malware Promotion via App Promotion Graph

Shang Ma*, Chaoran Chen*, Shao Yang, Shifu Hou, Toby Jia-Jun Li, Xusheng Xiao, Tao Xie, and Yanfang Ye

The Network and Distributed System Security Symposium (NDSS 2025)

[C.5] Symbolic Prompt Tuning Completes the App Promotion Graph

Zhongyu Ouyang, Chunhui Zhang, Shifu Hou, Shang Ma, **Chaoran Chen**, Toby Li, Xusheng Xiao, Chuxu Zhang & Yanfang Ye

Machine Learning and Knowledge Discovery in Databases (ECML PKDD 2024)

[C.4] An Empathy-Based Sandbox Approach to Bridge the Privacy Gap among Attitudes, Goals, Knowledge, and Behaviors

Chaoran Chen, Weijun Li, Wenxin Song, Fanny Ye, Yaxing Yao, and Toby Jia-Jun Li *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2024)*

[C.3] ARDW: An augmented reality workbench for printed circuit board debugging
Ishan Chatterjee, Tadeusz Pforte, Aspen Tng, Farshid Salemi Parizi, Chaoran Chen and Shwetak
Patel

Proceedings of the 35th Annual ACM Symposium on User Interface Software and Technology (UIST 2022)

[C.2] Patterns for Representing Knowledge Graphs to Communicate Situational Knowledge of Service Robots

Shengchen Zhang, Zixuan Wang, **Chaoran Chen**, Yi Dai, Lyumanshan Ye and Xiaohua Sun *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2021)*

[C.1] AI-Sketcher: A Deep Generative Model for Producing High-Quality Sketches

Nan Cao, Xin Yan, Yang Shi, and Chaoran Chen

Proceedings of the AAAI Conference on Artificial Intelligence (AAAI 2019)

Refereed Workshop Papers

[W.3] Toward a Human-centered Evaluation Framework for Trustworthy LLM-powered GUI Agents

Chaoran Chen, Zhiping Zhang, Ibrahim Khalilov, Bingcan Guo, Simret A Gebreegziabher, Yanfang Ye, Ziang Xiao, Yaxing Yao, Tianshi Li, and Toby Jia-Jun Li *CHI 2025 Workshop on Human-Centered Evaluation and Auditing of Language Models (HEAL)*

[W.2] Evaluating the LLM Agents for Simulating Humanoid Behavior

Chaoran Chen, Bingsheng Yao, Yanfang Ye, Dakuo Wang, and Toby Jia-Jun Li *CHI 2024 Workshop on Human-Centered Evaluation and Auditing of Language Models (HEAL)*

[W.1] Prompt Learning Unlocked for App Promotion in the Wild

Zhongyu Ouyang, Shifu Hou, Shang Ma, Chaoran Chen, Chunhui Zhang, Toby Jia-Jun Li, Xusheng Xiao, Chuxu Zhang, and Yanfang Ye

NeurIPS 2023 Workshop on New Frontiers in Graph Learning (GLFrontiers)

Relevant Research Experience

Student Researcher Jul. 2025–Nov. 2025

Workspace Abuse & Safety Protections (WASP) Team

Google, Sunnyvale, CA, USA

Mentor: Dr. Dayu Yuan

Research Intern Oct. 2024—Dec. 2024

Technology Harm Prevention Group

Max Planck Institute for Security and Privacy, Bochum, Germany

Mentor: Dr. Abraham Mhaidli

Teaching Experience

Teaching Assistant, CSE 40567: Computer Security Spring 2025

Department of Computer Science and Engineering, University of Notre Dame

Teaching Assistant, CSE 40625: Machine Learning Fall 2023

Department of Computer Science and Engineering, University of Notre Dame

Teaching Assistant, 05-738: Evidence-Based Educational Design Fall 2022

Human-Computer Interaction Institute, Carnegie Mellon University

Teaching Assistant, 05-440/05-640: Interaction Techniques (IxT) Spring 2022

Human-Computer Interaction Institute, Carnegie Mellon University

Professional Service Academic Service

Academic Service

Program Committee Member

HAIPS workshop@ACM CCS (2025)

Conference Reviewer

ACM CHI (2023-2025), ACM CSCW (2025), ACM IUI (2025)

Received "special recognitions" for outstanding reviews for ACM CHI 2024 Late-Breaking Work, ACM CSCW 2025, and ACM IUI 2025 (twice).

Journal Reviewer

ACM TOPS (2022)

Departmental and Community Service

Student Volunteer, ACM MobileHCI 2022