

Chao Zhang

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Research Interests

Human-Computer Interaction (HCI), Human-AI Collaboration, Creativity Support Tools, Learning Technologies, Storytelling, Sensemaking

Education

Cornell University , Ithaca, New York, United States	09/2023 - 06/2028 (expc.)
<i>Ph.D. in Information Science, advised by Dr. Jeff Rzeszutarski</i>	
Zhejiang University , Hangzhou, China	09/2020 - 03/2023
<i>M.E. in Design Engineering, GPA 3.93/4.00, advised by Dr. Cheng Yao</i>	
Jiangnan University , Wuxi, China	09/2016 - 06/2020
<i>B.E. in Electrical Engineering, minor in Digital Media Technology, GPA 3.83/4.00</i>	

Selected Publications

* denotes equal contribution.

Under-reviewed Manuscripts and Pre-prints

- M.2. **Chao Zhang**, Kexin Ju, Peter Bidoshi, Yu-Chun Grace Yen, and Jeffrey M. Rzeszutarski.
Deciphering Feedback Into Revisions with an AI-infused Visual Interface (Title modified for blind review).
- M.1. **Chao Zhang**, Shengqi Zhu, Xinyu Yang, Yu-Chia Tseng, Shenrong Jiang, and Jeffrey M. Rzeszutarski.
University Student Sensemaking of Large Language Model Outputs: Challenges and Adaptations in Managing Hallucinations (Title modified for blind review).

Major Peer-reviewed Conference and Journal Papers

- C.8. **Chao Zhang**, Xuechen Liu, Katherine Ziska, Soobin Jeon, Chi-Lin Yu, and Ying Xu.
Mathemyths: Leveraging Large Language Models to Teach Mathematical Language through Child-AI Co-creative Storytelling.
ACM CHI 2024 — *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems*.
- C.7. Lanjing Liu*, **Chao Zhang***, and Zhicong Lu.
Wrist-bound Guanxi, Jiazu, and Kuolie: Unpacking Chinese Adolescent Smartwatch-mediated Socialization.
ACM CHI 2024 — *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems*.
- C.6. Yuwen Lu*, **Chao Zhang***, Yuewen Yang, Yaxing Yao, and Toby Jia-Jun Li.
From Awareness to Action: Exploring End-user Empowerment Interventions for Dark Patterns in UX.
ACM CSCW 2024 — *Proceedings of the ACM on Human-Computer Interaction, Volume 8, Issue CSCW1*.
🏆 **Best Paper Award**
- C.5. Xueyan Cai, Kecheng Jin, Shang Shi, Shichao Huang, Ouying Huang, Xiaodong Wang, Jiahao Cheng, Weijia Lin, Jiayu Yao, Yuqi Hu, **Chao Zhang**, and Cheng Yao.
“See, Hear, Touch, Smell, And,...Eat!”: Helping Children Self-improve their Food Literacy and Eating Behavior through a Tangible Multi-Sensory Puzzle Game.
ACM IDC 2024 — *Proceedings of the 23rd Annual ACM Interaction Design and Children Conference*.
🏆 **Best Short Paper Award**

- C.4. **Chao Zhang**, Zili Zhou, Yajing Hu, Lanjing Liu, Jiayi Wu, Yaping Shao, Jianhui Liu, Lingyan Zhang, Lijuan Liu, Hangyue Cheng, Fangtian Ying, and Cheng Yao.
Observe It, Draw It: Scaffolding Children’s Observations of Plant Biodiversity with an Interactive Drawing Tool.
[ACM IDC 2023](#) — *Proceedings of the 22nd Annual ACM Interaction Design and Children Conference*.
- C.3. Qingyu Guo, **Chao Zhang**, Hanfang Lyu, Zhenhui Peng, and Xiaojuan Ma.
What Makes Creators Engage with Online Critiques? Understanding the Role of Artifacts’ Creation Stage, Characteristics of Community Comments, and their Interactions.
[ACM CHI 2023](#) — *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems*.
- C.2. Wenjie Xu, Jiayi Ma, Jiayu Yao, Weijia Lin, **Chao Zhang**, Xuanhe Xia, Nan Zhuang, Shitong Weng, Xiaoqian Xie, Shuyue Feng, Fangtian Ying, Preben Hansen, and Cheng Yao.
MathKingdom: Teaching Children Mathematical Language through Speaking At Home via a Voice-guided Game.
[ACM CHI 2023](#) — *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems*.
- C.1. **Chao Zhang***, Cheng Yao*, Jiayi Wu, Weijia Lin, Lijuan Liu, Ge Yan, and Fangtian Ying.
StoryDrawer: A Child–AI Collaborative Drawing System to Support Children’s Creative Visual Storytelling.
[ACM CHI 2022](#) — *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems*.

Minor Lightly-reviewed Posters, Extended Abstracts, and Workshop Papers

- P.2. **Chao Zhang**, Zili Zhou, Jiayi Wu, Yajing Hu, Yaping Shao, Jianhui Liu, Yuqi Hu, Fangtian Ying, and Cheng Yao.
Bio Sketchbook: An AI-assisted Sketching Partner for Children’s Biodiversity Observational Learning.
[ACM IDC EA 2022](#) — *Extended Abstracts of the 20th Annual ACM Interaction Design and Children Conference*.
- P.1. **Chao Zhang**, Cheng Yao, Jianhui Liu, Zili Zhou, Weilin Zhang, Lijuan Liu, Fangtian Ying, Yijun Zhao, and Guanyun Wang.
StoryDrawer: A Co-creative Agent Supporting Children’s Storytelling through Collaborative Drawing.
[ACM CHI EA 2021](#) — *Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems*.

Design Awards & Exhibitions

Design Awards

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| A.9. James Dyson Award National Runner-up , Dyson Limited, United States. | 2023 |
| A.8. Red Dot Award: Design Concept , Red Dot Award, Germany. | 2023 |
| A.7. A’ Design Iron Award , A’ Design Award, Italy. | 2022 |
| A.6. iF Talent Award , iF Design Award, Germany. | 2021 |
| A.5. Honorable Mention Award , Design Intelligence Award, China. | 2021 |
| A.4. Champion of AI Innovation Track , China Collegiate Computing Contest, China. | 2021 |
| A.3. Outstanding Winner , China Graduate AI Innovation Competition, China. | 2021 |
| A.2. Finalist , User Experience Design Award, China. | 2021 |
| A.1. Nominations Award , International Designer Club Award, Malaysia. | 2021 |

Design Exhibitions

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| E.3. China Design Exhibition , China. | 2022 |
| E.2. Global Grad Show , Dubai Design Week, The United Arab Emirates. | 2021 |
| E.1. “Ecological Bridge” Innovative Design Exhibition , China. | 2021 |

Academic Honors & Scholarships

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| H.5. Best Paper Award [Top 1%], CSCW 2024. | 2024 |
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H.4. Best Short Paper Award , IDC 2024.	2024
H.3. National Scholarship [Top 1%], Ministry of Education, China.	2022, 2021, 2018
H.2. Valedictorian , School of IOT, Jiangnan University, China.	2020
H.1. Jiangnan Talent [Only 10 undergraduate awardees], Jiangnan University, China.	2019

Research Experience

Research Assistant , Artifact Lab, Cornell University, USA <i>Advised by Dr. Jeff Rzeszutarski</i>	09/2023 - Present
Visiting Researcher , Converse to Learn Lab, Harvard University, USA <i>Advised by Dr. Ying Xu</i>	01/2023 - 09/2023
Visiting Researcher , SaNDwich Lab, University of Notre Dame, USA <i>Advised by Dr. Toby Jia-jun Li and Dr. Yaxing Yao (Virginia Tech)</i>	06/2022 - 01/2023
Research Intern , HCI Lab, Hong Kong University of Science and Technology, China <i>Advised by Dr. Xiaojuan Ma</i>	06/2022 - 09/2022

Teaching Experience

INFO 4310/5311 Interactive Information Visualization , Teaching Assistant, Cornell	Spring 2025
INFO/CS 3300 Visual Data Analytics for the Web , Teaching Assistant, Cornell	Fall 2024
INFO 4430 Teams and Technology , Teaching Assistant, Cornell	Fall 2023
CST 5141081 Interaction Technology and Design Practice , Teaching Assistant, ZJU	Spring 2021
CST 5143104 Design Engineering , Teaching Assistant, ZJU	Fall 2020
CST 2521018 Frontier of Engineering Technology , Teaching Assistant, ZJU	Fall 2020

Academic Services

Program Committee: CHI 2024 Late-Breaking Work, CHI 2023 Late-Breaking Work
Paper Review: ACM CHI, ACM CSCW, ACM IUI, ACM IDC, Chinese CHI, ChinaVis, International Journal of Child-Computer Interaction, International Journal of Human-Computer Interaction
🏆 Outstanding Reviewer Recognition — ACM CSCW 2023, ACM CHI 2024, ACM CHI 2025

Skills

Research: Interview, Survey, Experimental Design, Qualitative Analysis, Quantitative Analysis, LaTeX
Design: User Experience Design (Figma), Graphic Design (Adobe Products)
Computing: Front-End Development (HTML, CSS, Typescript, Vue.js, React.js), Statistical Analysis (Matplotlib, Numpy, Pandas, SPSS, JASP), Machine Learning (Sklearn, PyTorch, Tensorflow), and Prompt Engineering

References

Available upon request.