

Chao Zhang

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Research Interests

Human-Computer Interaction (HCI), Human-AI Collaboration, Child-AI Interaction, 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. 2024. Deciphering Feedback Into Revisions with an AI-infused Visual Interface (Title modified for blind review). *Under Review*.
- M.1. **Chao Zhang**, Shengqi Zhu, Xinyu Yang, Yu-Chia Tseng, Shenrong Jiang, and Jeffrey M. Rzeszutarski. 2024. University Student Sensemaking of Large Language Model Outputs: Challenges and Adaptations in Managing Hallucinations (Title modified for blind review). *Under Review*.

Major Peer-reviewed Conference and Journal Papers

- C.9. **Chao Zhang**, Xuechen Liu, Katherine Ziska, Soobin Jeon, Chi-Lin Yu, and Ying Xu. 2024. Mathemyths: Leveraging Large Language Models to Teach Mathematical Language through Child-AI Co-creative Storytelling. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24)*.
- C.8. Lanjing Liu*, **Chao Zhang***, and Zhicong Lu. 2024. Wrist-bound Guanxi, Jiazu, and Kuolie: Unpacking Chinese Adolescent Smartwatch-mediated Socialization. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24)*.
- C.7. 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. 2024. "See, Hear, Touch, Smell, and,...Eat!": Helping Children Self-improve their Food Literacy and Eating Behavior through a Tangible Multi-Sensory Puzzle Game. In *Proceedings of the ACM Interaction Design and Children Conference (IDC '24)*.
🏆 **Best Short Paper Award**
- C.6. Yuwen Lu*, **Chao Zhang***, Yuewen Yang, Yaxing Yao, and Toby Jia-Jun Li. 2024. From Awareness to Action: Exploring End-user Empowerment Interventions for Dark Patterns in UX. In *Proceedings of the ACM on Human-Computer Interaction (CSCW '24)*.
- C.5. Zihan Yan, Yanhong Wu, Danli Luo, **Chao Zhang**, Qihang Jin, Wei Chen, Yingcai Wu, Xiang "Anthony" Chen, Guanyun Wang, and Haipeng Mi. 2023. NaCanva: Exploring and Enabling the Nature-inspired Creativity for Children. In *Proceedings of the ACM on Human-Computer Interaction (MobileHCI '23)*.

- 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. 2023. Observe It, Draw It: Scaffolding Children’s Observations of Plant Biodiversity with an Interactive Drawing Tool. In *Proceedings of the ACM Interaction Design and Children Conference (IDC ’23)*.
- C.3. Qingyu Guo, **Chao Zhang**, Hanfang Lyu, Zhenhui Peng, and Xiaojuan Ma. 2023. What Makes Creators Engage with Online Critiques? Understanding the Role of Artifacts’ Creation Stage, Characteristics of Community Comments, and their Interactions. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI ’23)*.
- 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. 2023. MathKingdom: Teaching Children Mathematical Language through Speaking At Home via a Voice-guided Game. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI ’23)*.
- C.1. **Chao Zhang***, Cheng Yao*, Jiayi Wu, Weijia Lin, Lijuan Liu, Ge Yan, and Fangtian Ying. 2022. StoryDrawer: A Child–AI Collaborative Drawing System to Support Children’s Creative Visual Storytelling. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI ’22)*.

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. 2021. Bio Sketchbook: An AI-assisted Sketching Partner for Children’s Biodiversity Observational Learning. In *Extended Abstracts of the ACM Interaction Design and Children Conference (IDC EA ’21)*.
- P.1. **Chao Zhang**, Cheng Yao, Jianhui Liu, Zili Zhou, Weilin Zhang, Lijuan Liu, Fangtian Ying, Yijun Zhao, and Guanyun Wang. 2021. StoryDrawer: A Co-creative Agent Supporting Children’s Storytelling through Collaborative Drawing. In *Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems (CHI EA ’21)*.

Selected Design Awards & Exhibitions

Design Awards

- A.9. **James Dyson Award National Runner-up** [[Link](#)], Dyson Limited, United States. 2023
- A.8. **Red Dot Award: Design Concept**, Red Dot Award, Germany. 2023
- A.7. **A’ Design Iron Award** [[Link](#)], A’ Design Award, Italy. 2022
- A.6. **iF Talent Award** [[Link](#)], iF Design Award, Germany. 2021
- A.5. **DIA Honorable Mention** [[Link](#)], Design Intelligence Award (DIA), China. 2021
- A.4. **Champion of AI Innovation Track**, China Collegiate Computing Contest, China. 2021
- A.3. **Outstanding Winner** [Top 10], China Graduate AI Innovation Competition, China. 2021
- A.2. **UXDA Finalist** [Top 20], User Experience Design Award (UXDA), China. 2021
- A.1. **IDC Nominations Award**, International Designer Club (IDC) Award, Malaysia. 2021

Design Exhibitions

- E.3. **China Design Exhibition**, China. 2022
- E.2. **Global Grad Show** [[Link.1](#)] [[Link.2](#)], Dubai Design Week, The United Arab Emirates. 2021
- E.1. **“Ecological Bridge” Innovative Design Exhibition**, China. 2021

Selected Honors & Scholarships

- H.5. **Special Recognition for Paper Reviews**, CHI 2024. 2024
- H.4. **Special Recognition for Paper Reviews**, CSCW 2023. 2023
- H.3. **National Scholarship** [Top 0.1%], Ministry of Education, China. 2022, 2021, 2018
- H.2. **Valedictorian**, School of IOT, Jiangnan University, China. 2020

Research Experience

Visiting Researcher , Converse to Learn Lab, University of Michigan, 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 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 Late-Breaking Work 2024, CHI Late-Breaking Work 2023

Paper Review: CHI 2025, CSCW 2024, IJHCI 2024, CHI 2024, CSCW 2023, IDC 2023, CHI 2023, IDC 2022, CHI 2022, ChinaVis 2022, Chinese CHI 2022, Chinese CHI 2021

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.