

Chao Zhang

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RESEARCH INTERESTS

Human-Computer Interaction (HCI), Human-AI Interaction, Child-AI Interaction, Creativity Support, Educational Technology, Storytelling, Sensemaking

EDUCATION

Cornell University , Ithaca, New York, United States	09/2023 - 06/2028 (<i>expc.</i>)
<i>Ph.D. in Information Science, advised by Prof. Jeff Rzeszutarski</i>	
Zhejiang University , Hangzhou, China	09/2020 - 03/2023
<i>M.E. in Design Engineering, GPA 3.93/4.00, advised by Prof. 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

For a complete list of publications, please refer to my [Google Scholar](#) profile.

Major Peer-reviewed Conference and Journal Papers

* denotes equal contribution.

- C.6. **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.5. Yuwen Lu*, **Chao Zhang***, 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.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, Xiaolian 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

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| A.9. James Dyson Award National Runner-up , Dyson Limited, United States. [Link] | 2023 |
| A.8. Red Dot Award: Design Concept , Red Dot Award, Germany. | 2023 |
| A.7. A’ Design Iron Award , A’ Design Award, Italy. [Link] | 2022 |
| A.6. iF Talent Award , iF Design Award, Germany. [Link] | 2021 |
| A.5. DIA Honorable Mention , Design Intelligence Award (DIA), China. [Link] | 2021 |
| A.4. C4-AI Outstanding Winner (Top 1) , C4-AI Innovation 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

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

SELECTED HONORS & SCHOLARSHIPS

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| 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 |
| H.1. Jiangnan Talent (Only 10 awardees in Jiangnan University) , Jiangnan University, China. | 2019 |

RESEARCH EXPERIENCE

Visiting Researcher , Converse to Learn Lab, University of Michigan, USA <i>Advised by Prof. Ying Xu</i>	01/2023 - 09/2023
Visiting Researcher , SaNDwich Lab, University of Notre Dame, USA <i>Advised by Prof. Toby Jia-jun Li and Prof. Yaxing Yao (Virginia Tech)</i>	06/2022 - 01/2023
Research Intern , HCI Lab, Hong Kong University of Science and Technology, China <i>Advised by Prof. Xiaojuan Ma</i> <i>Mentored by Dr. Yilei Shi and Dr. Haimo Zhang</i>	06/2022 - 09/2022
Research Associate , INNO Lab, Zhejiang University, China <i>Advised by Prof. Cheng Yao and Prof. Fangtian Ying</i>	06/2020 - 03/2023

TEACHING EXPERIENCE

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

ORAL PRESENTATIONS

Paper Presentation , CHI 2024, IDC 2023, CHI 2022, IDC 2021, CHI 2021	2021 - 2024
Invited Talk , Design Innovation Center, China Academy of Art	04/2022
Invited Talk , Industrial Design Institution, Chinese Mechanical Engineering Society	04/2022

ACADEMIC SERVICES

Program Committee: CHI 2024 (LBW AC), CHI 2023 (LBW AC)

Paper Review: 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, Participatory Design, Experimental Design, Thematic Analysis, LaTeX

Design: User Experience Design (Figma), Generative Design (Processing), Graphic Design (Adobe Products)

Computing: Front-End Development (Javascript, HTML, CSS, Vue.js, React.js), Statistics Analysis (Matplotlib, Numpy, Pandas, SPSS, JASP), and Machine Learning (Sklearn, PyTorch, Tensorflow)

REFERENCES

Available upon request.