CHAO ZHANG

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RESEARCH INTERESTS

Human-Computer Interaction; Human-AI Interaction; Human-AI Collaboration; Co-Creativity; Creativity Support Tool; Computational Design; Design Tool; Child-Computer Interaction; Educational Technology; Learning Tools; Digital Sketch; Cognition;

EDUCATION

M.E. in Industrial Design · Zhejiang University, China   Sept. 2020 - Mar. 2023 (Expected)

GPA: 3.97 / 4.00, top 3% (1/60), Advisor: Cheng Yao

Awarded by National Scholarship, Ministry of Education, China

B.E. in Electrical Engineering · Jiangnan University, China   Sept. 2016 - Jul. 2020

GPA: 3.82 / 4.00, top 5% (3/80), Advisor: Ze Tang

Awarded by National Scholarship, Ministry of Education, China

Minor in Digital Media Technology · Jiangnan University, China   Sept. 2017 - Jul. 2020

GPA: 3.40 / 4.00, top 1 (1/30)

Computer Science Summer Program · National University of Singapore, Singapore Jul. 2018 - Aug. 2020

PUBLICATIONS

Peer-Review Conference Papers

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* · CHI 2022 Full Paper Accepted
https://doi.org/10.1145/3491102.3501914   To Appear (C.7.)

Ge Yan, **Chao Zhang**, Jiadi Wang, Zheng Xu, Jianhui Liu, Jintao Nie, Fangtian Ying, and Cheng Yao. *CamFi: An AI-driven and Camera-based System for Assisting Users in Finding Lost Objects in Multi-Person Scenarios* · CHI 2022 Poster Accepted   To Appear (C.6.)

Ge Yan, Cheng Yao, **Chao Zhang**, Jiadi Wang, Yuqi Hu, and Fangtian Ying. *MusicCollage: A Music Composition Tool for Children Based on Synesthesia and a Genetic Algorithm* · HCII 2022 Full Paper Accepted   To Appear (C.5.)

Lanjing Liu, Zhaohui Xv, Xiaoshan Wang, **Chao Zhang**, and Lei Zhang. *DetectiveMap: A Card-based Empathy Toolkit in Design Education Activities for Children* · DIS 2022 Full Paper Under Reviewed   To Appear (C.4.)

Journal Papers

Chao Zhang, Zili Zhou, Yajing Hu, Jiayi Wu, Lingyan Zhang, Yaping Shao, Lanjing Liu, Jianhui Liu, Fangtian Ying, and Cheng Yao. *Bio Sketchbook: A Mobile Observational Drawing Tool for Promoting Children's Connectedness to Nature* • IMWUT 2022 Under Reviewed	To Appear (J.2.)
Lijuan Liu, Jiahao Guo, **Chao Zhang**, Zhangzhi Wang, Pinqi Zhu, Tuo Fang, Junwu Wang, Cheng Yao, and Fangtian Ying. *ElectroPaper: Design and Fabrication of Paper-Based Electronic Interfaces for the Water Environment* • Electronics 2021 https://doi.org/10.3390/electronics10050604	Jan. 2021 (J.1.)

PATTERNS

China National Invention Patent (Application No. 202011322789.4). *A Drawing System to Support Children's Observation of Plants and Learning about Biodiversity*	May. 2021 (P.4.)
China National Invention Patent (Application No. 202011322789.4). *A Sketch Recognition and Generation Method based on Raspberry Pi and Recurrent Neural Network*	Nov. 2020 (P.3.)
China National Invention Patent (Application No. 202011322789.4). *A Sentiment Analysis and Visualization Method Combining Video and Pop-Ups*	Apr. 2019 (P.2.)
Software Patent (Registration No. 2019SR0428088). *Enterprise Network Opinion Analysis and Visualization Software*	Feb. 2019 (P.1.)

AWARDS & HONORS

iF Talent Award • 2021 iF Design, Germany OneShoe, https://ifworlddesignguide.com/entry/340348-oneshoe	2021-2022 (Selected)
Honorable Mention • 2021 Design Intelligence Award (DIA), China	
Nominations Award • 2021 International Designer Club Award, Malaysia	
UXD Award • 2021 User eXperience Design Competition, China	
National Grand Prize (Top 1) • 2021 C4-AI Innovation Contest, China	
National First Prize (Top 10) • 2021 Graduate AI Innovation Competition, China	
Outstanding Student Award • Zhejiang University, China	
Academic Merit Scholarship • Jiangnan University, China	2016 - 2020 (Selected)
Top 10 University Students Award • Jiangnan University, China	
Outstanding Graduate Award • Jiangnan University, China	
Outstanding Student Award • Jiangnan University, China	

EXHIBITIONS

2022 China Design Exhibition • China	2021-2022 (Selected)
2021 Dubai Design Week • The United Arab Emirates To Life, https://globalgradshow.com/project/tolife/	

2021 Dubai Design Week · The United Arab Emirates

Silent Delivery, https://globalgradshow.com/project/silent-delivery/

2021 "Ecological Bridge" Innovative Design Exhibition · China

SKILLS

Language · Mandarin (Native), English (Fluent)

Design · User Experience Design (Figma, Sketch, etc.), Product Design (Cinema 4D, Corona Render, Rhinocero, etc.), Generative Design (P5.js, Processing, Grasshopper, etc.), Visual Design (Illustrator, Photoshop, etc.)

Coding · Front-End Development (Javascript, HTML, CSS, Vue.js, etc.), Artificial Intelligence (Sklearn, PyTorch, Tensorflow, etc.), Embedded System (Arduino, Raspberry Pi, Sensors, etc.)

Prototyping · 3D Printing, Laser Cutting, Fabrication and Hardware Assembly, Basic Circuit Design, etc.

Data Analysis · Matplotlib, SPSS, JASP, NVivo, etc.