CHAO ZHANG

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RESEARCH INTERESTS

Human-Computer Interaction; Human-Al Interaction; Human-Al 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 & Posters

Chao Zhang, Cheng Yao, Jiayi Wu, Weijia Lin, Lijuan Liu, Ge Yan, and Fangtian Ying.		
StoryDrawer: A Child–Al Collaborative Drawing System to Support Children's Creative Visual		
Storytelling • CHI 2022 Paper • https://doi.org/10.1145/3491102.3501914		
Ge Yan, Chao Zhang , Jiadi Wang, Zheng Xu, Jianhui Liu, Jintao Nie, Fangtian Ying, and Cheng	May. 2022	
Yao. CamFi: An Al-driven and Camera-based System for Assisting Users in Finding Lost	(C.5.)	
Objects in Multi-Person Scenarios • CHI 2022 Poster • https://doi.org/10.1145/3491101.3519780		
Ge Yan, Cheng Yao, Chao Zhang , Jiadi Wang, Yuqi Hu, and Fangtian Ying. <i>MusicCollage: A</i>	Mar. 2022	
Music Composition Tool for Children Based on Synesthesia and a Genetic Algorithm • HCII 2022		
Paper • https://doi.org/10.1007/978-3-031-05431-0_15		
Chao Zhang, Zili Zhou, Jiayi Wu, Yajing Hu, Yaping Shao, Jianhui Liu, Yuqi Hu, Fangtian Ying,	Jun. 2021	
and Cheng Yao. Bio Sketchbook: An Al-Assisted Sketching Partner for Children's Biodiversity		
Observational Learning • IDC 2021 Poster • https://doi.org/10.1145/3459990.3465197		
Chao Zhang, Cheng Yao, Jianhui Liu, Zili Zhou, Weilin Zhang, Lijuan Liu, Fangtian Ying, Yijun	May. 2021	
Zhao, and Guanyun Wang. StoryDrawer: A Co-Creative Agent Supporting Children's Storytelling		
through Collaborative Drawing • CHI 2021 Poster • https://doi.org/10.1145/3411763.3451785		

Muling Huang, Lingyan Zhang, Lijuan Liu, Pinqi Zhu, Chao Zhang , Pitchayapat Sonchaeng,	May. 2021
Weiqiang Ying, Pinhao Wang, Yuqi Hu, Fangtian Ying, and Cheng Yao. <i>ColorGuardian: Customize</i>	(C.1.)
Skin Tattoos for Children with Vitiligo • CHI 2021 Poster • https:// doi.org/10.1145/3411763.3451615	
Journal Papers	
Yang Chen, Katherine Fennedy, Anna Fogel, Shengdong Zhao, Chao Zhang , Lijuan Liu, and	Sept. 2022
Ching Chiuan Yen. SSpoon: A Shape-changing Spoon That Optimizes Bite Size for Eating Rate Regulation • IMWUT 2022 To Appear	(J.2.)
Lijuan Liu, Jiahao Guo, Chao Zhang , Zhangzhi Wang, Pinqi Zhu, Tuo Fang, Junwu Wang, Cheng	Jan. 2021
Yao, and Fangtian Ying. ElectroPaper: Design and Fabrication of Paper-Based Electronic	(J.1.)
Interfaces for the Water Environment • Electronics 2021	
https://doi.org/10.3390/electronics10050604	
PATENTS	
China National Invention Patent (Application No. 202011322789.4). A Drawing System to	May. 2021
Support Children's Observation of Plants and Learning about Biodiversity	(P.4.)
China National Invention Patent (Application No. 202011322789.4). A Sketch Recognition and	Nov. 2020
Generation Method based on Raspberry Pi and Recurrent Neural Network	(P.3.)
China National Invention Patent (Application No. 202011322789.4). A Sentiment Analysis and	Apr. 2019
Visualization Method Combining Video and Pop-Ups	(P.2.)
Software Patent (Registration No. 2019SR0428088). <i>Enterprise Network Opinion Analysis and</i>	Feb. 2019
Visualization Software	(P.1.)
AWARDS & HONORS	
iF Talent Award • 2021 iF Design, Germany	2021-2022
OneShoe, https://ifworlddesignguide.com/entry/340348-oneshoe	(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-Al Innovation Contest, China	
National First Prize (Top 10) • 2021 Graduate Al Innovation Competition, China	
Outstanding Student Award • Zhejiang University, China	
Academic Merit Scholarship • Jiangnan University, China	
Academic Merit Scholarship • Jiangnan University, China	2016 - 2020
Top 10 University Students Award • Jiangnan University, China	(Selected)
Outstanding Graduate 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/
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.