Muzhe Wu

Contact Information	Human-Computer Interaction Institute (HCII) School of Computer Science Carnegie Mellon University Pittsburgh, PA 15213 USA	(734)358-7357 muzhew@andrew.cmu.edu wumuzhe.com	l	
Research Interests	Human-Computer Interaction, Extended Reality (AR/VR), Human Augmentation, Cognitive Sci- ence, Learning & Education, Responsible AI			
EDUCATION	Carnegie Mellon University (CMU) Master in Educational Technology & Applied Lea	arning Sciences (QPA: 4.16/4.00	Aug 2023 – Aug 2024)) Pittsburgh, PA	
	Shanghai Jiao Tong University (SJTU) BSc. in Electrical and Computer Engineering (GP	A: 3.70/4.00)	Sep 2019 - Aug 2023 Shanghai, China	
	University of Michigan (UMich) BSc. in Computer Science (GPA: 3.95/4.00)		Aug 2021 - Apr 2023 Ann Arbor, MI	
RESEARCH Experience	Augmented Perception Lab, CMUApril 2024 – PresentResearch Assistant (Advisor: David Lindlbauer)Pittsburgh, PADesigned, prototyped, and evaluated four "beyond-real" audio interaction techniques in mixed realitythat empower users in search and navigation tasks [C.2]. Investigated the trade-off between userperformance and sense of agency in target selection tasks under various levels of preemptive assistance[IP.1].			
	Collective AI Research & Evaluation Lab, CMUOct 2023 – Sep 2024Research Assistant (Advisor: Hong Shen)Pittsburgh, PALed co-design sessions with industry AI practitioners on cross-functional team collaboration for early- stage AI risk identification; developed and evaluated a web-based collaboration tool that assists in- dustry AI practitioners in planning AI system development and identifying unethical design choices [U.1].			
	Human-AI Lab & Lifelong Learning Lab, UMic Research Assistant (Advisor: Anhong Guo & Xu War Developed and evaluated an AR intelligent tutori learning gains through enabling knowledge tra [M.1].	ng) ng system for Rubik's Cube lear	с I	
	Jim Team, NVIDIA Developer & Research Assistant (Advisor: Jim Fan) Built a retro game simulation environment for RI and GUIs; enabled GPU acceleration for MineDo	• • •	-	
Peer-Reviewed Conference Papers	[C.2] Muzhe Wu* , Yi-Fei Cheng*, David Lindlbauer. <i>New Ears: An Exploratory Study of Audio Interaction Techniques for Performing Search in a Virtual Reality Environment</i> . In <i>The IEEE International Symposium on Mixed and Augmented Reality (ISMAR 2024)</i> , Full Paper. Seattle, WA, USA.			

MANUSCRIPTS[M.1] Muzhe Wu*, Haocheng Ren*, Gregory Croisdale, Anhong Guo, Xu Wang, Rubiken: Intelligent Tutoring for Rubik's Cathe Learning Through AR-enabled Physical Task Reconfiguration. Full Paper.UNDER REVIEW[U.1] Muzhe Wu*, Yanzhi Zhao*, Shuyi Han, Michael Xieyang Liu, Hong Shen. At LEGO: Scaffolding Cross-Functional Collaborations in Responsible AI During the Early Design of AI Products. Full Paper.IN PREPARATION[P.1] Muzhe Wu, Byungjoo Lee, David Lindlbauer. Performance as Agency? Investigating the Trade-off betracen Sense of Agency and Performance in Target Selection with Preemptive Assistance in VR. Full Paper.PRESENTATIONS, POSTERS, AND DEMOS[P.1] New Ears: An Exploratory Study of Audio Interaction Techniques for Performing Search in a Virtual Reality Environment. Oral Presentation at ISMAR 2024, Scattle, WA, USA.HONORS, AWARD AND GRANTSGraduate Student Small Project Help (GuSH) Funds, CMU (\$720 Grant)Nov 2023 James B. Angell Scholar, UMich Mar 2023 Merit Scholarship, CMU (\$7000 Grant)Nov 2023 Dec 2021, Apr. Dec 2021, Apr. Dec 2022, James Honor, UMich Mar 2023 Deca* Honor List, UMich Dec 2021, Apr. Dec 2022, Nov 2020SERVICESPeer Reviewer for CH1 (1) and CH1 I BW (3) Volunteer at Jiangchuan Sunshine Nursing Home, Shanghai, China2023 – Present May 2022 – Apr 2023 May 2022 – Apr 2023RELEVANT COURSEWORKHCE: Interactive Extended Reality. Interaction Design, Drototyping Algorithmic Experiences, Human- Al Interaction & Systems, Educational Design AtMute Machine Learning in Production Software: Web Systems, Operating Systems, UI Development, Computer Organization Hardware: Circuits & Signals, Logic Design, Semiconductor DevicesSKILLSProgramming Languages: Python, JavaScript, C#, K, C/C		[C.1] Ying-Jui Tseng, Gautam Yadav, Xinying Hou, Muzhe Wu , Yun-Shuo Chou, Claire Che Chen, Chia-Chia Wu, Shi-Gang Chen, Yi-Jo Lin, Guanze Liao, Kenneth R. Koedinger. <i>ActiveAI: The Effective-</i> <i>ness of an Interactive Tutoring System in Developing K-12 AI Literacy</i> . In <i>European Conference on Technology</i> <i>Enhanced Learning (EC-TEL 2024)</i> , Full Paper. Krems, Austria.			
Cross-Functional Collaborations in Responsible AI During the Early Design of AI Products. Full Paper.IN PREFARATION[IP:1] Muzhe Wu, Byungjoo Lee, David Lindlbauer. Performance as Agency? Investigating the Trade-off between Sense of Agency and Performance in Target Selection with Preemptive Assistance in VR. Full Paper.PRESENTATIONS, DOSTERS, AND[Pr.1] New Ears: An Exploratory Study of Audio Interaction Techniques for Performing Search in a Virtual Reality Environment. Oral Presentation at ISMAR 2024, Seattle, WA, USA.POSTERS, AND DEMOS[Po.1] Rubikon: A Multimodal Tutor for 3D Physical Task Learning *. Poster and Demo (Best Demo) at Michigan AI Symposium 2022, Ann Arbor, MI, USA.HONORS, AWARDS AND GRANTSGraduate Student Small Project Help (GuSH) Funds, CMU (\$720 Grant)Nov 2023 	MANUSCRIPTS				
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