

Yaxuan (Stella) Mao

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SUMMARY OF QUALIFICATIONS

- **Proficient in User Experience Research (UXR):** User research, user testing, co-design, A/B test, usability testing, survey design, diary studies, thematic analysis.
- **Design tools:** Adobe Creative Suite (Illustrator, Premiere, After Effects), UE5, Unity, Figma, Maya, etc.
- **Strong Programming Skills:** Python (Advanced), C++ (Advanced), JavaScript (Advanced), CSS (Advanced), HTML (Advanced), OpenCV (Advanced), OpenFramework (Advanced), C# (Intermediate), Arduino (Intermediate), Processing (Intermediate), SQL (Intermediate), D3.js (Intermediate), ROS (Intermediate).
- **Five years of proven leadership experience** with effective communication skills, teamwork, and project management as demonstrated through entrepreneurship, academic project, student assignment, and extracurricular activities.

EDUCATION

University of Washington, Seattle, WA	<i>Expected June 2027</i>
Master of Science, Human Centered Design and Engineering (HCDE)	
• <u>Relevant Coursework:</u> User-centered Design, Design Process Resilience, Experimental Research Methods	
City University of Hong Kong, Hong Kong, China	
	<i>Sep. 2020 - Jun. 2024</i>
Bachelor of Science, Creative Media Cum Laude (Top 10%)	
• <u>Relevant Coursework:</u> User Experience Research and Design, Visual Communication (UI/UX), Interdisciplinary Research, Data Structure, AI Game Programming, Algorithm, Multi-modal Interface, Computer Vision	

RELEVANT EXPERIENCE

Digital China AI Researcher Intern	<i>April - August 2025</i>
• Designed a planning framework to enhance LLM-based AI agent performance in enterprise scenarios.	
• Applied model optimization (LoRA, FlashAttention) to finetune models for improved efficiency in digital HR scenarios.	
• Integrated MCP framework and RAG to improve model reliability and enable accurate use of external real time data and APIs, resulting in a 28% reduction in task errors and a 35% boost in data-retrieval accuracy.	
• Increased Qwen's performance accuracy from 32% to 86% on scenario-specific evaluations.	
Tsinghua University Part-time Researcher	
<i>April - October 2025</i>	
• Applied a mixed-methods approach , combining qualitative insights (user interviews, thematic coding) with quantitative data (usability and performance metrics) to inform interface design.	
• Designed and evaluated a robot prototype that improved users' reading focus by 26.7% and engagement by 15.9% .	
Youth Incubator UI Designer	
<i>June - October 2024</i>	
• Design and implement UI components using WebPress, HTML, CSS, and JavaScript , improving website usability and visual appeal for over 1,500 monthly visitors .	
• Maintained brand and design consistency by updating over 30+ UI elements to align with new course offerings and refreshed organizational branding, resulting in a 15% increase in user engagement on key pages.	
BiWell Researcher	
<i>June 2023 - March 2025</i>	
• Led co-design workshops with children, guardians, and dentists to capture diverse perspectives on pediatric dental experiences and anxiety triggers.	
• Conducted qualitative analysis of workshop data, identifying key emotional and behavioral themes that informed the design of a VR-based intervention system.	
• Prototype an immersive VR experience in Unreal Engine , improving children's comfort and engagement.	
SeeWall Limited Co-Founder & Product Designer	
<i>August 2021 - February 2023</i>	
• Led user-centered research and iterative design to develop assistive tools for visually impaired users, conducting interviews and usability tests with 50+ participants .	
• Translated key insights into two inclusive products—an audio-guided navigation app and a wearable obstacle-detection belt—that boosted navigation accuracy by 28% and reduced user stress and hesitation by 35% , enhancing both usability and emotional confidence.	

PUBLICATION LIST

- P1 **Yaxuan Mao**, Yanheng Li, Duo Gong, Pengcheng An, Yuhan Luo. 2025. "Can I Decorate My Teeth With Diamonds?": Exploring Multi-Stakeholder Perspectives on Using VR to Reduce Children's Dental Anxiety. In *Proceedings of the 28th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*.
- P2 Katie Xue, **Yaxuan Mao**, Junnan Yu, Yuhan Luo. 2025. Toward Interactive Reading: Co-designing with Adolescents to Explore Opportunities for Overcoming Reading Challenges. In *Proceedings of the ACM Conference on Interaction Design and Children (IDC '25) WiP*.
- P3 Yanheng Li, Long Bai, **Yaxuan Mao**, Xuening Peng, Zehao Zhang, Antoni B Chan, Jixing Li, Xin Tong, RAY LC. 2024. Affecting Audience Valence and Arousal in 360 Immersive Environments: How Powerful Neural Style Transfer Is? In *Proceedings of the International Conference on Human-Computer Interaction (HCII)*.
- P4 Yanheng Li*, **Yaxuan Mao***, Ray LC. 2023. Communicating Failure Recovery with Robotic Body Movement. In *Proceedings of the 21th IEEE International Conference on Robotics and Automation (ICRA)*, workshop. [Published]
- P5 Yanheng Li, Long Bai, **Yaxuan Mao**, Hongliang Ren, Yu Qiao, Xin Tong and Ray LC. 2023. Rethinking Pain Communication of Patients with Alzheimer's Disease through E-textile Interaction Design. In *Proceedings of Frontiers in Human Neuroscience*.
- P6 Yanheng Li, Long Bai, **Yaxuan Mao**, Xuening Peng, Zehao Zhang, Xin Tong, Ray LC. 2023. The Exploration and Evaluation of Generating Affective 360° Panoramic VR Environments Through Neural Style Transfer. In *Proceedings of the 30th IEEE International Conference on Virtual Reality and 3D User Interfaces (VR)*.
- P7 Yanheng Li, Luoying Lin, Xinyan Li, **Yaxuan Mao** and RAY LC. 2023. "Nice to meet you!": Expressing Emotions with Movement Gestures and Textual Content in Automatic Handwriting Robots. In *Proceedings of the 18th ACM/IEEE International Conference on Human Robot Interaction (HRI)*, late-breaking report.