Yuecheng Peng

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Education

University of Washington
Master of Science in Technology Innovation   *23.9 - 24.12*

Zhejiang University
Bachelor of Engineering, Industrial Design. GPA [3.98/4.0(91.93/100)] Rank [1/45]   *19.9 - 23.6*
- **Relevant Coursework:** Information Product Design, Information & Interaction Design Technology, Ergonomics
- **Awards:** Four times Excellent Academic Model, two times Second Class Scholarship, one time Third Class Scholarship

Research Experience

Knitted Sensors   University of Washington, Master Researcher
Advisor: Nadya Peek, Hannah Twigg-Smith, Machine Agency   *23.10 - ongoing*
- Use machine knitting method to fabricate textile sensors and simplify this process via design tools (ongoing)

Fabrication of Smart Textiles   Zhejiang University, Research Leader
Advisor: Guanyun Wang, International Design Institute of Zhejiang University   *22.9 - 24.4*
- Conducted comprehensive material experiment and research.
- Physical prototyping using our proposed fabrication method.
- Write the paper independently (accepted by CHI24 as the first author).

Designing Knowledge Graph Tool for Sustainability Education   Zhejiang University, Research Intern
Advisor: Xuanhui Liu, International Design Institute of Zhejiang University   *21.10 - 22.4*
- Designed and developed a online knowledge graph tool ready to be used in sustainable education settings.
- Collected and organized related works of this research.
- Paper submitted to the journal of cleaner production.

HoloLens2 Expander Interaction   Zhejiang University, Research Intern
Advisor: Liuqing Chen, International Design Institute of Zhejiang University   *21.8 - 21.12*
- Lead the design team, came up with design guidelines and standardized workflow, which increased the inter-team work efficiency by 60%.
- Optimized user interaction experience with the Hololens2 interface and improved the comfort level as well as immersiveness.
- Our design team was successfully selected to cooperate with Zhejiang Provincial Energy Group Company Ltd. in the bidding.

Music Emotion Visualization   Zhejiang University, Research Assistant
Advisor: Kejun Zhang, International Design Institute of Zhejiang University   *20.6 - 21.6*
- Responsible for literature research and functional design.
- Designed and conducted the experiment to collect people's valence-arousal sentiment value on music as well as different graphic and color expressions, which constitute the supporting database of our mobile App.
- This project was selected as a provincial research project (top 6%) and we developed a App demo.

Publications

- **Yuecheng Peng**, Danchang Yan, Haotian Chen, Yue Yang, Ye Tao, Weitao Song, Lingyun Sun, and Guanyun Wang. 2024. IntelliTex: Fabricating Low- cost and Washable Functional Textiles using A Double-coating Process. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '24), May 11–16, 2024, Honolulu, HI, USA. ACM, New York, NY, USA, 18 pages. https://doi.org/10.1145/3613904.3642759

Academic Services

- Reviewer, The ACM CHI Conference on Human Factors in Computing Systems (CHI), 2024

Skills & Interests

- **Electrical Engineering**: PCB Design (KiCAD), Wireless (WiFi, BLE), Wearable Electronics, ESP32, Arduino, Raspberry Pi
- **Programming**: JavaScript, Python, C, C#, Processing
- **Design & Research**: Rhino, Figma, Adobe CC, Design Thinking, Semi-Structured Interviews, Focus Groups, Surveys, Statistical Analysis (SPSS)
- **Fabrication**: PCB Fabrication, 3D Printing, Laser Cutting, CNC, Woodshop, Embroidery, Machine Knitting, Sewing
- **Languages**: Chinese (native), English (Fluent: TOEFL 109, GRE 325)
- **Interest**: Personal Fabrication Research in HCI