

Jianhui YAN

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EDUCATION

Research Intern

Human Computer Interaction Lab at Saarland University

Research advisor: Prof. Jürgen Steimle's 🔗

06/2024 – 09/2024

Saarbrücken, Germany

M.S. Electronic Information Engineering

School of Electronic and Information Engineering, South China University of Technology

Research advisor: Prof. Lin Shu 🔗

09/2022 – present

Guangzhou, China

B.S. Information Engineering

School of Electronic and Information Engineering, South China University of Technology

GPA: 3.71/4.0 Ranking: 4/16

09/2018 – 06/2022

Guangzhou, China

RESEARCH INTERESTS

Human Computer Interaction (HCI), Wearable Haptic System, Virtual/Augmented Reality (VR/AR), Force Feedback

PROJECTS

UIST 2024 Project: EMS-Actuated Hand-Objects: Leveraging the Loss of SoA Caused by EMS to Make Hands Serve Better as Virtual Objects

Rejected, now preparing for the next submission

My Contributions:

- 1. A novel concept of leveraging the loss of SoA caused by EMS to make the stimulated hand serve better as a virtual object
- 2. Proposal of a highly reproducible electrode layout with a clear anatomical guide for actuating fingers via EMS and inducing users to pose 8 gestures with it
- 3. An interaction system that combined EMS actuation, deep learning model, and data glove to enable users to perform gestural object retrieval tasks and be involved in interactive scenarios easily and immersively

CHI 2025 Project: A Wearable Haptic device project

Working with Arata Jingu 🔗 under Prof. Jürgen Steimle's 🔗 supervision, finally submitted a paper to CHI 2025

My Contributions:

- 1. Contributing to the idea and the application of the paper
- 2. Implementing a complex Mixed Reality (MR) Interaction system for Quest 3
- 3. Participating in the wearable mobile device implementation, such as the communication between the computer and Quest 3

SKILLS

MR Interaction Implementation

Developing built-in Mixed Reality (MR) interaction application for Quest 3

Electrical Muscle Stimulation

Actuating gestures based on EMS, Performing experiments on human hands

Computer Skills

Unity3D(C#), Python, Git, Matlab, Arduino, Neural Network

AWARDS

2020 National Undergraduate Mathematical Contest in Modeling	09/2020
Second Prize of Guangdong Province	
2020 Guangdong Undergraduate Electronic Design Competition	11/2020
Second Prize	

Scholarship

- National Inspirational Scholarship
- 2019 Second-class Scholarship of South China University of Technology
- 2020 "Hongping Evergreen Fund" Student Science and Technology Innovation Third-class Scholarship (2 items)
- Lixin Stipend

LANGUAGES

English	Cantonese	French
IELTS: 7	Native	A1

TEACHING EXPERIENCE

Digital system design	09/2023 – 12/2023
Teaching Assistant	South China University of Technology
Digital logic circuit	03/2023 – 06/2023
Teaching Assistant	South China University of Technology

SERVICE

Student volunteer	07/2024
EuroHaptics 2024	Lille, France