

Jianhui YAN

✉ yimkimfai@gmail.com ☎ +86 13502248570

📍 626, Hongsheng Technology Building, 381 Wushan Road, Tianhe District, Guangzhou, 510641

🔗 <https://yimkf.github.io/>

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

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