

Jianhui YAN

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EDUCATION

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: 3/16

09/2018 – 06/2022

Guangzhou, China

RESEARCH INTERESTS

Interfaces in Human Computer Interaction

Gestural Interaction in Spatial Computing; Tactile and Kinesthetic Rendering by Electrical Muscle Stimulation

Human-centered Computing in AR/VR

User Centered Design; Proprioceptive Feedback; Embodiment; Deep Learning in Human Computer Interaction

PROJECTS

2022 Chinese National Natural Science Foundation

Highly immersive natural human-computer interaction system with multi-channel integration of audio, visual and haptic

- took advantage of deep learning technique and data glove to perform gesture recognition
- discovered the potential of combining electrical muscle stimulation with gestural interaction
- proposed an immersive interaction system providing proprioceptive, tactile and visual feedback

10/2022 – present

China Electronics Society-Tencent Robotics X Rhinoceros Bird Special Research Plan (2022)

Research on wearable kinesthetic/tactile composite rendering technology based on microcurrent stimulation

- proposed a highly reproducible electrode placement based on hand anatomy to render kinesthetic to all five fingers.
- successfully induced users to pose a variety of gestures by electrical muscle stimulation

09/2022 – 09/2023

AWARDS

2020 National Undergraduate Mathematical Contest in Modeling

Second Prize of Guangdong Province

09/2020

2020 Guangdong Undergraduate Electronic Design Competition

Second Prize

11/2020

Scholarship

National Inspirational Scholarship, Second-class scholarship of university, 2020 "Hongping Evergreen Fund" student science and technology innovation third-class scholarship (2 items), Lixin Stipend

LANGUAGES

English

IELTS: 7

Mandarin

Native

French

Elementary proficiency (A2)

SKILLS

Computer Skills

C++, Python, Matlab, C#, VHDL

Developer tools

VScode, Unity, Visual Studio, Opensim, Unity3D, Multism, Quartus,