

Chung-Han Liang

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Education

National Taiwan University

MS. Computer Science

Taiwan

Sep 2020 – Jun 2023

- Thesis: "FingerPuppet: Finger-Walking Performance-based Puppetry for Human Avatar"

National Central University

B. Computer Science

Taiwan

Sep 2015 – Jul 2020

Research and Experience

Research assistant

Academia Sinica, Institute of information science

May 2020 – Jul 2023

Remote, part-time

- Research on health data cleaning and preprocessing by optimization methods
- Aim to solve the inconsistency between self-report survey response data, and make subsequent analysis result reasonable

Research student

National Central University

Feb 2019 – Mar 2020

Taoyuan City, Taiwan

- Develop VR games for Alzheimer's Rehabilitation
- HRV analysis on ECG data for further classification on stages of Alzheimer's

Research articles

Grouped data with survey revision

with Prof Wang, D. W. and prof Pan, M. L.

Jan 2023

AS and NYCU, Taiwan

- Identify revision of grouped data type scale as stochastic processes
- We address inconsistencies in grouped data, and decompose matrices to identify different interference factors via solving a quadratic programming problem.

Diagnostic and Rehabilitation System for Alzheimer's Disease Based on Virtual Reality Technology in Rehabilitation Rooms

with Prof Eric Hsiao-Kuang Wu and prof S. Yeh

May 2019

NCU, Taiwan

- Implement rehabilitation VR games based on clinical scales for Alzheimer's Disease by Unity
- Develop interface between wearable ECG device and Unity program

Skills

Programming Languages : Python, C#(Unity)

Programming Languages (used in projects): Matlab, C/C++, R

Languages: Chinese, English

Developer Tools: Jupyter Notebooks, Git, VS, VS Code