

# Chung-Han Liang

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## Education

### National Taiwan University

Taiwan

MS. Computer Science

Sep 2020 – Jun 2023

- Thesis: "FingerPuppet: Finger-Walking Performance-based Puppetry for Human Avatar"  
 [Repository](#)

### National Central University

Taiwan

B. Computer Science

Sep 2015 – Jul 2020

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## Research and Experience

### Research assistant

May 2020 – Jul 2023

Academia Sinica, Institute of information science

Remote, part-time

- Research on health data cleaning and preprocessing by optimization methods
- Preprocess ECG data into HRV feature for further analysis

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## Publications

### Grouped data with survey revision [Repository](#)

Jan 2023

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

AS and NYCU, Taiwan

- Aim to solve the inconsistency between self-report survey response data, and make subsequent analysis result reasonable
- Stochastic process is employed to model the inconsistencies in grouped data. The corresponding stochastic matrices are computed through the solution of a quadratic programming problem, and they are utilized for removing specific interference factors

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

May 2019

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

NCU, Taiwan

- Implement rehabilitation VR games based on clinical scales for Alzheimer's Disease by Unity
- Visualize signal from wearable ECG device on Unity application

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## 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