

# 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

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## Experience

### Research assistant

Academia Sinica, Institute of information science

May 2020 – Jul 2023

Remote, part-time intern

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

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## Publications

### FingerPuppet: Finger-Walking Performance-based Puppetry for Human Avatar

Jun 2023

with Prof Chen, B. Y. and Prof Huang, D. Y.

NTU, Taiwan

- Explore user preferred finger-walking gestures for virtual humanoid character manipulation
- Proposed a **motion retargeting** method that is capable to transfer a finger-walking motion to full-body motion under little amount of time. (less than 0.035 s)

### Grouped data with survey revision

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