



## Jesse Hsiu

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### PROFILE

My name is Jesse Hsiu (Min-Chieh Hsiu, 修敏傑). A programmer studied at department of CSIE in National Taiwan University. Research domain includes Human-Computer Interactions and Ubiquitous Computing. Love to explore and use new technologies to make life easier with coding. My expertise includes Wearable, Mobile Application, and Web Development.

### EDUCATION

National Taiwan University — M.S. (Sep'14–Present)

- Dept. Computer Science and Information Engineering

National Taipei University — B.A. (Sep'10–Jun'14)

- Dept. Computer Science and Information Engineering
- Graduated 1st in Department

Taipei Municipal Daan Vocational High School (Sep'07–Jun'10)

- Dept. Computer Technique
- Graduated 2nd in Department

### EXPERIENCES

**Teaching Assistant, Programming 101 玩電玩，學程式 @ NCCU** Sep'15 Jan'16

- Assisted Prof. Neng-Hao Yu during the class at NCCU.
- Teaching Processing programming, Arduino, Android, and Processing.js.

**Chief Coordinator, Hour Of Code - Affiliated High School of NCCU** Dec'15

- Teaching Arduino programming for high school students.

**Exhibitors, 2015 DOIT Taiwan Open Innovations Festival** Nov'15

- Invited and presented project Nail+ during the exhibition.

**iOS Application Developer (Internship), Tickle Inc.** May'15 Jul'15

- Development of Tickle iOS Application.
- Integrated external APIs into App included Sphero, Ollie, and Dash&Dot.

**Chief Coordinator, UIST 2014 Traversal @ NTU Workshop** Mar'15

- Held annual UIST Traversal workshop event at NTU.

**Exhibitors, 2014 DOIT Taiwan Open Innovations Festival** Nov'14

- Invited and presented project EyeWrist during the exhibition.

## AWARDS

- **Excellent Work, SensingNail**

MediaTek Wearable device into IoT world competition, 2015

- **Global Top 3 & Honorable Mention, Fighting Gulliver**

ACM CHI Innovative Game Design, 2015

- **2nd Prize, EyeWatch**

MobileHero – User Experience Design Competition, 2014

- **Final Shortlist, EyeWrist**

MediaTek Wearable device into IoT world competition, 2014

## SKILLS

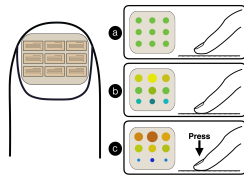
- **Languages:**

Objective-C, Swift, Python, JavaScript, Java, Processing, C#, C++, C, PHP

- **Tools:**

Xcode, Node.js, Express.js, Meteor.js, Unity3D, MongoDB, CadSoft Eagle

## PROJECTS AND PUBLICATIONS



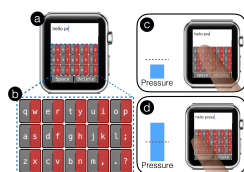
### **Nail+: Sensing Fingernail Deformation to Detect Finger Force Touch Interactions on Rigid Surfaces**

*MobileHCI '16 (Reviewing)*

**Min-Chieh Hsiu**, Chuan Wang, Da-Yuan Huang, Jhe-Wei Lin, Yi-ping Hung, De-Nian Yang, Mike Chen

#### **My Contribution:**

- Putting forth the idea and being project leader
- Node.js application for collecting data interface through usb serial
- Machine Learning for recognizing different kinds of gestures
- Producing and designing an Arduino Nano Shield by PCB Layout



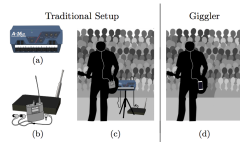
### **ForceBoard: Using Force as Input Technique on Size-Limited Soft Keyboard**

*MobileHCI '16 (Reviewing)*

**Min-Chieh Hsiu**, Da-Yuan Huang, Chi An Chen, Yi-ping Hung, De-Nian Yang, Mike Chen

#### **My Contribution:**

- Putting forth the idea and being project leader
- iOS Application for collecting data during the studies
- Analysing the result of user study feedback



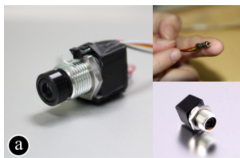
## Giggler: An Intuitive, Real-Time Integrated Wireless In-Ear Monitoring and Personal Mixing System using Mobile Devices

*MM '15*

Andries Valstar, **Min-Chieh Hsiu**, Te-Yen Wu, Mike Y. Chen

### My Contribution:

- iOS / Mac Application for broadcasting audio in realtime
- Using Bonjour Service to discover server and client automatically
- Collecting initial feasibility of the system through user study



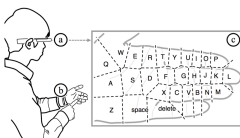
## PalmGesture: Using Palms as Gesture Interfaces for Eyes-free Input

*MobileHCI '15*

Cheng-Yao Wang, **Min-Chieh Hsiu**, Po-Tsung Chiu, Chiao-Hui Chang, Liwei Chan, Bing-Yu Chen, Mike Y. Chen

### My Contribution:

- Using Node.js application to analysis collected VICON data.
- Implementing Node.js applications for sample scenarios included web, smartphone and google glass



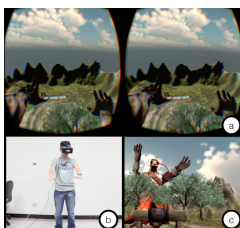
## PalmType: Using Palms as Keyboards for Smart Glasses

*MobileHCI '15*

Cheng-Yao Wang, Wei-Chen Chu, Po-Tsung Chiu, **Min-Chieh Hsiu**, Yih-Harn Chiang, Mike Y. Chen

### My Contribution:

- Using VICON system to collect user typing behaviour on palm



## Fighting Gulliver: An Experiment with Cross-Platform Players Fighting a Body-Controlled Giant

*CHI'15 EA*

Kuan-Ting Chou, **Min-Chieh Hsiu**, Chiuann Wang

### My Contribution:

- Developing realtime gaming through Photon Engine Network
- Using Unity3D to develop cross platform application included iOS / Android / Mac

