

# CHI-JUI WU

<http://chijuiwu.space>  
home@chijuiwu.space

I am an independent human-computer interaction (HCI) researcher. My research interest is in understanding people and technology from a humanistic perspective. I have research experience in cross-device computing, proxemic interaction, and accessibility. I am also proficient in programming and data analytics.

## EDUCATION

**PhD. Student in Human-Computer Interaction** Jan 2018 – Aug 2018  
School of Computing and Communications, Lancaster University (UK)  
Supervisor: Dr. Steven Houben

**MRes. Computational Statistics and Machine Learning**, Distinction Sep 2015 – Sep 2016  
Department of Computer Science, University College London (UK)  
Supervisors: Dr. Nicolai Marquardt, Dr. Steven Houben

**BSc. Computer Science**, First-Class Honours Sep 2011 – Jun 2015  
School of Computer Science, University of St Andrews (UK)  
Supervisor: Dr. David Harris-Birtill

## PUBLICATIONS

**Chi-Jui Wu**, Steven Houben, Nicolai Marquardt. 2017. EagleSense: Tracking People and Devices in Interactive Spaces using Real-Time Top-View Depth-Sensing. In *Proceedings of the 35th Annual ACM Conference on Human Factors in Computing Systems* (Denver, Colorado, USA, May 6 - 11, 2017). CHI'17. ACM, New York, NY. 3929-3942.

**Chi-Jui Wu**, Aaron Quigley, David Harris-Birtill. 2017. Out of Sight: A Toolkit for Tracking Occluded Human Joint Positions. In *Personal and Ubiquitous Computing*, 21(1), 125-135. Springer London.

## PROFESSIONAL EXPERIENCE

**Research Assistant, University College London** Nov 2015 – Sep 2016  
Developed a depth-sensing, proxemic-aware system to track spatial and postural information about people and devices. The research resulted in a publication.  
Supervisors: Dr. Nicolai Marquardt, Dr. Steven Houben

**Research Intern, University of St Andrews** Jun 2015 – Sep 2015  
Developed a web-based system infrastructure to simplify software configuration and virtualization for recomputability and sustainability.  
Supervisor: Professor Ian Gent

**Research Intern, University of St Andrews** Jun 2014 – Sep 2014  
Examined depth-sensing visualizations to enhance users' visual and spatial awareness when interacting with a large display and a Microsoft Kinect.  
Supervisors: Professor Aaron Quigley, Dr. Per Ola Kristensson

**Co-founder and Full-Stack Developer, scrim.me** Jun 2014 – Dec 2016  
Developed an online platform for eSports (Team Fortress 2) players to find teammates and organize practice matches. Reached 4500+ users.

## SKILLS

**User-Centered Research**  
Lab study, usability study, technical evaluation, survey, interview, content analysis

**Programming Languages**  
Python, Java, C, C++, C#, JavaScript, MATLAB

## Software Development Frameworks, Tools, and Libraries

Scientific computing (*pandas*, *SciPy*, *Matplotlib*, *seaborn*), machine learning (*scikit-learn*, *Keras*), computer vision (*OpenCV*), information visualization (*D3.js*), depth sensors (*Kinect*, *DepthSense*), mobile (*Android*, *ReactNative*), web (*Django*, *Flask*, *Golang*, *Bootstrap*), user interface (*JavaFx*, *Swing*, *WPF*, *WinForms*), version control (*Git*), continuous integration (*TravisCI*), database (*SQLite*, *MySQL*).

## AWARDS AND HONORS

<b>Faculty of Science and Technology Scholarship</b> , Lancaster University	Jan 2018
<b>ACM SIGCHI Student Travel Grant</b> , ACM ISS 2016	Aug 2016
<b>Hackathon Honorable Mention</b> , UCL Data Science Student Challenge	Feb 2016
<b>Hackathon Best Use of API (Mendeley)</b> , Hack Cambridge	Jan 2016
<b>Dean's List</b> , University of St Andrews	Jun 2015
<b>Dean's List</b> , University of St Andrews	Jun 2014
<b>Hackathon Finalist</b> , Barclays Openminds Hackathon	Nov 2013
<b>Hackathon Winner</b> , J.P. Morgan Code for Good Challenge	Nov 2013
<b>International Undergraduate Scholarship</b> , University of St Andrews	Sep 2011

## ACADEMIC SERVICE

**Reviewer**  
ACM CHI '18

## TEACHING EXPERIENCE

<b>Teaching Assistant</b> , Wanrong Junior High School, Hualien, Taiwan Led students in English singing, storytelling, reader's theatre, and speech contests. Received an excellence award (in military substitute service).	Jan 2017 – Jan 2018
<b>Personal Tutor</b> Mathematics and Chemistry (high school), Computer Science (undergraduate and graduate), and English Writing (non-native speakers).	Since Jan 2010

## LANGUAGES

**Chinese** (native), **Taiwanese** (native), **English** (fluent)