

CHI-JUI WU

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

I am a human-computer interaction (HCI) researcher interested in understanding people and technology from a humanistic perspective. My research experience is in cross-device computing, proxemic interaction, and accessibility. I am 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 (25% acceptance rate, 2400 submissions). 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

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

ACADEMIC SERVICE

Reviewer
ACM CHI '18

TEACHING EXPERIENCE

Teaching Assistant, Wanrong Junior High School, Hualien, Taiwan Jan 2017 – Jan 2018
Led students in English singing, storytelling, reader's theatre, and speech contests.
Received an excellence award (in military substitute service).

Personal Tutor Since Jan 2010
Mathematics and Chemistry (high school), Computer Science (undergraduate and graduate), and English Writing (non-native speakers).

LANGUAGES

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