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| **CHI-JUI WU** | | | |
| Wanrong Junior High School  1 Changqiao Road, Fenglin Town  Hualien County 975, Taiwan | | Website <http://chijuiwu.space>  Email [chijui@chijuiwu.space](mailto:chijui@chijuiwu.space)  GitHub [@cjw-charleswu](http://github.com/cjw-charleswu) | |
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| **RESEARCH INTERESTS**  My research interests are within Human Computer Interaction and Artificial Intelligence, including sensing technologies, mobile devices, ubiquitous computing, proxemic interaction, and machine learning. I build novel supporting toolkits for group collaborations and multi-device interactions, and leverage machine intelligence to enhance existing sensing capabilities within interactive spaces. Recently, I have developed a new tracking infrastructure that enables HCI researchers to build and evaluate proxemic-aware, activity and device-centric interfaces. In my further research, I would like to design and build new cross-device interactions to support ad-hoc individual and group work in public (office) and private (home) spaces. | | | |
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| **EDUCATION**  **MRes. Computational Statistics and Machine Learning,** Distinction  University College London, UK  Supervisors: Prof. Nicolai Marquardt, Prof. Steven Houben  **BSc. Computer Science,** First-Class Honours  University of St Andrews, UK  Supervisor: Prof. David Harris-Birtill | | | 2015 – 2016  2011 – 2015 |
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| **PUBLICATIONS** | | | |
| **[C.1]**  **[J.1]** | **Wu, CJ.**, Houben, S., Marquardt, N. 2017. EagleSense: Tracking People and Devices in Interactive Spaces using Real-Time Top-View Depth-Sensing. To appear 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.  **Wu, CJ.**, Quigley, A., Harris-Birtill, D. 2016. Out of Sight: A Toolkit for Tracking Occluded Human Joint Positions. In *Personal and Ubiquitous Computing,* 21(1), 125-135. Springer London. | | |
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| **EMPLOYMENT EXPERIENCE**  **Research Intern, University of St Andrews, UK**  Explored novel system infrastructures for software recomputation ([recomputation.org](http://www.recomputation.org/)). Developed a web application to automatically build and run computer programs using virtual machines and continuous integration tools.  Supervisor: Prof. Ian Gent  **Research Intern, University of St Andrews, UK**  Investigated interactions between depth-sensing information visualization and user’s ability to detect visual notifications and awareness of other surrounding users. Designed and conducted individual and group user studies with the interfaces developed.  Supervisors: Prof. Aaron Quigley, Prof. Per Ola Kristensson | | | June 2015 –  September 2015  June 2014 –  September 2014 |
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| **TEACHING EXPERIENCE**  **English Teaching Assistant, Wanrong Junior High School, Hualien, Taiwan**  Teaching in remote rural areas in Taiwan as substitute (mandatory) military service  **Personal Tutor**  Mathematics and Chemistry (high school), Computer Science (undergraduate and graduate), English Writing (non-native speakers) | | | January 2017 –  Present  2010 –  Present |
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| **AWARDS**  Honourable Mention, University College London Data Science Student Challenge, UK  Best Use of Mendeley API, Hack Cambridge, UK  Dean’s List, University of St Andrews, UK  Dean’s List, University of St Andrews, UK  Finalist, Barclays Openminds Hackathon, UK  Winner, J.P. Morgan Code for Good Challenge, UK | | | February 2016  January 2016  June 2015  June 2014  November 2013  November 2013 |
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| **SKILLS**  **Programming**  Java, Python, C, C++, C#, Matlab, JavaScript, Go  **User Interface**  Swing, JavaFX, WinForms, WPF  **Hardware**  Microsoft Kinect, Phidget, Arduino  **Computer Vision** (OpenCV), **Machine Learning** (Scikit-Learn, Keras, XGBoost), **Scientific Computing** (Numpy, Scipy, Pandas, Matplotlib, Seaborn), **Information Visualization** (D3.js), **Graphics** (WebGL), **Mobile** (Android), **Web Front-End** (Markdown, HTML, CSS, Bootstrap, jQuery), **Web Back-End** (Flask, Tornado, Django), **Game** (Unreal, Phaser, pixi.js), **Version Control** (Git, TravisCI), **Word Processing** (LaTeX), **Operating System** (UNIX), **Virtual Machine, Container** (Vagrant, Docker) | | | |
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| **POSITIONS OF RESPONSIBILITIES**  Treasurer, University of St Andrews Computing Society, UK  Secretary, University of St Andrews Psychology Society, UK  Events Coordinator, University of St Andrews Psychology Society, UK  First-year Rep, University of St Andrews Breakaway (Hill-Walking) Society, UK | | | 2014 – 2015  2013 – 2014  2012 – 2013  2011 – 2011 |
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