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| **CHI-JUI WU** | |  |
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| 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 STATEMENT**  My research interests include sensing technologies, mobile devices, ubiquitous computing, proxemic interaction, and machine learning. I build novel interactive systems for groups and multi-device environments, and leverage machine intelligence to improve human-computer interaction. 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 create new cross-device interactions for individuals and groups in various use cases. I am also interested in the research field of computer science education and information visualization. | |  |
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| **EDUCATION**  **MRes. Computational Statistics and Machine Learning,** Distinction  University College London, United Kingdom  Supervisors: Prof. Nicolai Marquardt, Prof. Steven Houben  **BSc. Computer Science,** First-Class Honours  University of St Andrews, United Kingdom  Supervisor: Prof. David Harris-Birtill | | 2015 - 2016  2011 – 2015 |
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| **PUBLICATIONS**  **[C.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, USA.  **[J.1] 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. | |  |
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| **EMPLOYMENT EXPERIENCE**  **Research Intern, University of St Andrews, United Kingdom; Jisc**  Explored novel system infrastructures with virtual machines and continuous integration tools for software recomputation ([recomputation.org](http://www.recomputation.org/))  Supervisor: Prof. Ian Gent  **Research Intern, University of St Andrews, United Kingdom**  Developed and evaluated user interfaces with depth-sensing visualization feedback for group collaboration.  Supervisors: Prof. Aaron Quigley, Prof. Per Ola Kristensson | | June 2015 to September 2015  June2014 to September 2014 |
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| **TEACHING EXPERIENCE**  **Teaching Assistant, Wanrong Junior High School, Hualien, Taiwan**  Teaching English (middle school) in remote rural areas in Taiwan for substitute military service.  **Tutor** | | January 2016 to January 2018 |
| TUTORING EXPERIENCE  **Mathematics and Chemistry** (High school), **Computer Science** (University), **English** (Elementary school) | | 2010 – Present |
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| ACHIEVEMENTS & AWARDS  **Honorable mention, University College London Data Science Student Challenge** (United Kingdom)  **Best use of Mendeley API, Hack Cambridge** (United Kingdom)  **Finalist, Barclays Openminds Hackathon** (United Kingdom)  **First, J.P. Morgan Code for Good Challenge** (United Kingdom)  **Dean’s List, University of St Andrews** (United Kingdom)  **Dean’s List, University of St Andrews** (United Kingdom)  **Presidential Award, American International School of Guangzhou** (China) | | 02/2016  01/2016  11/2013  11/2013  06/2015  06/2014  06/2011 |
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| SKILLS  **Git, TravisCI, Bash, Batch, Unix**  **Java, Python, C, C++, C#, Matlab, JavaScript, Go**  **OpenCV, EmguCV**  **Scikit-Learn, XGBoost, Keras**  **Numpy, Scipy, Pandas, Matplotlib, Seaborn**  **Markdown, HTML, CSS, Bootstrap, JQuery, WebGL, D3.js, Flask, Tornado, Django**  **Microsoft Kinect, Phidget, Arduino**  **Swing, JavaFX, WinForms, WPF**  **Vagrant**  **Unreal Engine, Phaser, pixi.js** | | Miscellaneous  Programming languages  Computer vision  Machine learning  Scientific computing  Web technologies  Sensors and hardware  GUI frameworks  Virtual machines  Game engines |
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| POSITIONS OF RESPONSIBILITIES  **Treasurer, University of St Andrews Computing Society** (United Kingdom)  **Secretary, University of St Andrews Psychology Society** (United Kingdom)  **Events coordinator, University of St Andrews Psychology Society** (United Kingdom)  **First-year representative, University of St Andrews Breakaway (Hill-Walking) Society** (United Kingdom) | | 05/2014 – 05/2015  05/2013 – 05/2014  05/2012 – 05/2013  09/2011 – 12/2011 |
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