

# Hang Chu

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## EDUCATION

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**Dept. of Electronic Engineering, Shanghai Jiao Tong University (SJTU)** Sept. 2009-July 2013  
*B.S. in Information Engineering*

- Major GPA 3.90/4.30 (91.2/100) (rank 20/290)
- Excellent Bachelor Thesis Award (3/290)

**School of Electrical and Computer Engineering, Cornell University** Aug. 2013-Aug. 2015  
*Thesis-Track M.S., concentration in Computer Vision*

- Advised by Prof. Tsuhan Chen and Prof. Ashutosh Saxena
- GPA 4.04/4.30 (rank 1/8)

**Toyota Technological Institute at Chicago** June 2015-present  
*Robotics Visiting Student*

## PUBLICATIONS

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**Hang Chu**, Weiyao Lin, Jianxin Wu, Xingtong Zhou, Yuanzhe Chen, and Hongxiang Li, A New Heat-Map-based Algorithm for Human Group Activity Recognition, ACM Multimedia (ACM MM), 2012. ([pdf](#), [demo](#))  
Weiyao Lin, **Hang Chu**, Jianxin Wu, Bin Sheng, and Zhenzhong Chen, A Heat-Map-based Algorithm for Recognizing Group Activities in Videos, IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2013. ([pdf](#), [demo](#))  
**Hang Chu**, Andrew Gallagher, and Tsuhan Chen, GPS Refinement and Camera Orientation Estimation from a Single Image and a 2D Map, Workshop on Mobile Vision, Computer Vision and Pattern Recognition (CVPRW), 2014. ([pdf](#), [demo](#))  
**Hang Chu**, and Anh Vu, Consistent Ground-Plane Mapping: A Case Study Utilizing Low-Cost Sensor Measurements and a Satellite Image, International Conference on Robotics and Automation (ICRA), 2015. ([pdf](#), [demo](#))  
**Hang Chu**, Dong-Ki Kim, and Tsuhan Chen, You Are Here: Mimicking the Human Thinking Process in Reading Floor-Plans, submitted to International Conference on Computer Vision (ICCV), 2015. ([pdf](#), [demo](#))

## RESEARCH EXPERIENCES

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**Undergraduate Researcher, Computer Vision Group, Dept. of Electronic Engineering, SJTU**  
*Advisor: Prof. Weiyao Lin* Jan. 2012-July 2013  
*Description: Research on crowd behavior analysis in surveillance videos.*  
**Undergraduate Researcher, Machine Learning Group, Dept. of Computer Science, SJTU**  
*Advisor: Prof. Wu-Jun Li* Sept. 2011-Jan. 2013  
*Description: Research on image hashing and social network sentiment analysis.*  
**M.S. Student, Advanced Multimedia Processing Lab, Cornell University**  
*Advisor: Prof. Tsuhan Chen, Dr. Andrew Gallagher, and Prof. Ashutosh Saxena* Aug. 2013-present  
*Description: Research on algorithms of outdoor/indoor vision-based localization.*

## INTERNSHIPS

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**Research Intern, China Mobile Research Institute** July-Sept. 2012  
*Description: Research on WiFi fingerprint-based indoor localization algorithms.*  
**Research Intern, Volkswagen Electronics Research Laboratory** June-Aug. 2014  
*Description: Research on mapping for autonomous vehicles.*

## ACADEMIC ACTIVITIES

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**Reviewer/External Reviewer**  
*Conference: CVPR 2014-2015, ECCV 2014, ACCV 2014, ICIP 2015*  
*Journal: Circuits Systems & Signal Processing since 2014, Visual Comm. and Image Representation since 2015*

## SKILLS

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C++, Matlab, Python, JavaScript, ROS, LabVIEW