

# Hang Chu

Cornell University, School of Electrical and Computer Engineering

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## EDUCATION

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

*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-present

*2-year research-oriented Master of Science program, concentration in Computer Vision*

- Advised by Prof. Tsuhan Chen, Dr. Andrew Gallagher, and Prof. Ashutosh Saxena
- GPA 4.0 (rank 1/8)

## 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](#))

**Hang Chu\***, Weiyao Lin\*, 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. (\* for equal contribution) ([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 (CVPR), 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**, and Tsuhan Chen, Towards Indoor Localization with Floorplan-Assisted Priors, submitted to Computer Vision and Pattern Recognition (IROS), 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**

CVPR 2014-2015, ECCV 2014, ACCV 2014, Journal of CSSP since 2014, ICIP 2015

## SKILLS

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C/C++, Matlab, Python, JavaScript, VHDL, ROS, Julia, LabVIEW, Altium Designer, Multisim