

Hang Su

e-mail: hsu@cs.umass.edu · mobile: (401) 284-7656 · homepage: <http://cs.umass.edu/~hsu>

- OBJECTIVE** Internship - 2016 Summer
- EDUCATION**
- Ph.D. candidate, Computer Science**, GPA 3.94 September 2013 - Present
UMass Amherst Amherst, MA
 - Co-advisors: Prof. Erik Learned-Miller, Prof. Subhransu Maji
 - Research interests: My current research focuses primarily on applying deep neural networks for (1) recognizing 3D shapes and (2) learning motion representations for videos.
 - Sc.M., Computer Science**, GPA 3.75 September 2011 - May 2013
Brown University Providence, RI
 - Advisor: Prof. James Hays
 - B.S., Intelligence Science & Technology**, GPA 3.5 September 2007 - July 2011
Peking University Beijing, China
 - Double Major in Statistics
- WORK EXPERIENCE**
- Research Assistant** Fall 2014 - Present
Pixel Forensics, Inc. & UMass Amherst Amherst, MA
 - As part of a collaboration with Pixel Forensics, Inc., we are exploring novel approaches, such as deep networks and texture attributes, for content-based image retrieval.
 - Machine Learning Intern** Summer 2012
eHarmony, Inc. Santa Monica, CA
 - Implemented a DPM-based face detection system (<http://db.tt/OnpHfkfs>) and explored facial features for predicting communication behaviors among subscribers. The face detection system achieved 0.95 recall and 0.90 precision on eHarmony's user profile photos.
 - Developed a photo quality assessment system for user profile photos. It combined traditional image quality criteria, such as noise level, aspect ratio and image size, with novel content-based criteria including skin smoothness, composition and bokeh.
 - Summer Intern** Summer 2010
Chinese Academy of Science Shenzhen, China
 - Project: "Indoor Scene Segmentation Based on Manhattan-world Assumption"
- OTHER PROJECTS**
- Scene parsing using scene attributes as global features** Spring 2013
Master's Degree Project
 - 102 scene attributes were learned from a large-scale database. Together with standard local features, the 102-D attribute-based scene representation achieved state-of-the-art performance in scene parsing while being much smaller in size than traditional features.
 - Defocus estimation and its application in photo quality assessment** Spring 2012
Final project in course "Data-driven Vision and Graphics"
 - Surveyed various methods for photo defocus estimation. Trained a photo quality model that achieved state-of-the-art performance.
 - Front vehicle detection using onboard camera** Spring 2011
Undergraduate Thesis
 - Nearby vehicles were detected and tracked in real-time using HOG feature and optical flow.
- PUBLICATION**
- "Multi-View Convolutional Neural Networks for 3D Shape Recognition", Hang Su, Subhransu Maji, Evangelos Kalogerakis, Erik Learned-Miller. In *IEEE Conference on Computer Vision (ICCV)*, 2015.
 - "The SUN Attribute Database: Beyond Categories for Deeper Scene Understanding", Genevieve Patterson, Chen Xu, Hang Su, James Hays. In *International Journal of Computer Vision*, January 2014 (doi: 10.1007/s11263-013-0695-z).
- SKILLS**
- Proficient in C, C++, Matlab, HTML, SQL
 - Course project experience with Java, C#, Python, PHP, Javascript