Ying Xiong

Résumé

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 Last modified: Sep 13, 2016.



Education

9/2010 – 11/2015	Doctor of Philosophy, Electrical Engineering.	
	School of Engineering and Applied Sciences, Harvard University, Cambridge, MA, USA.	

9/2010 – 11/2012 **Master of Science**, *Electrical Engineering*.

School of Engineering and Applied Sciences, Harvard University, Cambridge, MA, USA.

8/2006 – 7/2010 **Bachelor of Engineering**, *Electronic Engineering*.

Department of Electronic Engineering, Tsinghua University, Beijing, China.

Experience

10/2015 – present	Software Engineer, Dropbox Inc., San Francisco, CA, USA.
	Developing computer vision and machine learning algorithms for various Dropbox products.

5/2014 – 8/2014 **Software Engineering Intern**, *Apple Inc.*, Cupertino, CA, USA. Fraud and abuse detection through image analysis and machine learning.

5/2012 – 8/2012 **Software Engineering Intern**, *Google Inc.*, Mountain View, CA, USA. Water identification for 3D reconstruction in Google Map/Earth using computer vision.

9/2011 – 12/2011 **Research Assistant**, *NEC Laboratories America*, Cupertino, CA, USA. Structure from motion framework for 3D reconstruction from a sequence of images in C++.

7/2009 – 8/2009 **Research Intern**, *University of Southern California*, Los Angeles, CA, USA. Robust parameter estimation algorithm that improves RANSAC.

Selected Publications

- Dropbox Blog, 2016 Ying Xiong. "Fast and Accurate Document Detection for Scanning." *Dropbox Technical Blog Post.*
 - Dissertation, 2015 Ying Xiong. "Physics-Based Visual Inference: Theory and Algorithms." *PhD Dissertation*. Harvard University, Cambridge, MA, USA.
 - CVPR, 2015 Ayan Chakrabarti, Ying Xiong, Steven J. Gortler and Todd Zickler. "Low-level Vision by Consensus in a Spatial Hierarchy of Regions." *IEEE Conference on Computer Vision and Pattern Recognition*. Boston, MA, USA.
 - TPAMI, 2015 Ying Xiong, Ayan Chakrabarti, Ronen Basri, Steven J. Gortler, David W. Jacobs and Todd Zickler. "From Shading to Local Shape." *IEEE Transactions on Pattern Analysis and Machine Intelligence.* Volume: 37, Issue: 1, Pages: 67-79.

- TPAMI, 2014 Ayan Chakrabarti, Ying Xiong, Baochen Sun, Trevor Darrell, Daniel Scharstein, Todd Zickler and Kate Saenko. "Modeling Radiometric Uncertainty for Vision with Tone-mapped Color Images." *IEEE Transactions on Pattern Analysis and Machine Intelligence.* Volume: 36, Issue: 11, Pages: 2185-2198.
- SIGGRAPH, 2013 Anat Levin, Daniel Glasner, Ying Xiong, Fredo Durand, William Freeman, Wojciech Matusik and Todd Zickler. "Fabricating BRDFs at High Spatial Resolution Using Wave Optics." SIGGRAPH, ACM Transactions on Graphics. Volume: 32, Issue: 4.
 - CVPR, 2012 Ying Xiong, Kate Saenko, Trevor Darrell and Todd Zickler. "From Pixels to Physics: Probabilistic Color De-rendering." *IEEE Conference on Computer Vision and Pattern Recognition.* Providence, RI, USA. **Oral, Google Student Travel Awards**.
 - ICASSP, 2012 Ying Xiong and Yue M. Lu. "Blind Estimation and Low-rate Sampling of Sparse MIMO Systems with Common Support." *IEEE International Conference on Acoustics, Speech, and Signal Processing.* Kyoto, Japan.
 - Thesis, 2010 Ying Xiong. "Face Recognition Algorithm based on Lasso." *Undergraduate Thesis*. Tsinghua University, Beijing, China. **Outstanding Thesis**.
 - CJIG, 2010 Ying Xiong and Hui-min Ma. "Extraction and application of 3D Object SIFT Feature." China Journal of Image and Graphics. Volume: 15, Issue: 5, Pages: 814-819.
 - IGTA, 2009 Ying Xiong and Hui-min Ma. "Application of SIFT Feature in 3D Object Recognition." *Conference on Image and Graphics Technology and Applications.* Pages: 290-294, Beijing, China. **Outstanding Paper**.

Certificates and Awards

- 2016 Nominated and finalist for Dropbox Hackweek "Heart" Award.
- 2015, 2016 Udacity Nanodegrees: Full Stack Web Developer, Data Analyst, and iOS Developer.
- 2012F, 2013S, 2014F Harvard University Certificate of Distinction in Teaching.
 - 2012 CVPR Google Student Travel Awards.
 - 2010 Outstanding Undergraduate Student of Beijing City.
 - 2010 Outstanding Undergraduate Student in Tsinghua University.
 - 2010 Outstanding Undergraduate Thesis in Tsinghua University.
 - 2008, 2009 National Scholarship for Comprehensive Excellence, First Class.
 - 2006 Silver Medal in China Mathematical Olympiad.
 - 2005 First Prize in China High School Mathematical Olympiad and Physics Olympiad.

Teaching

- 2012F, 2013F, 2014F Harvard CS 283, Computer Vision.
 - 2013F Harvard ES 255, Statistical Inference with Engineering Applications.
 - 2013S Harvard CS 207, System Development for Computational Science.
 - 2012S Harvard CS 124 / CSCI E-124, Data Structures and Algorithms.