

# YUANDONG TIAN

## Fourth-year Ph.D candidate

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## RESEARCH DIRECTION

I am working on computer vision, in particular deformation estimation of images. Besides, I am also interested in general machine learning techniques.

## EDUCATION

Sep.2008-Present	Carnegie Mellon University, Pittsburgh PA <b>Ph.D candidate</b> of Robotics Institute, School of Computer Science GPA: 4.07/4.33 Advisor: Srinivasa G. Narasimhan
Sep.2005-Jun.2008	Shanghai Jiao Tong University, Shanghai, China <b>Master</b> of Computer Science & Engineering GPA (major): 3.91/4.00
Sep.2001-Jun.2005	Shanghai Jiao Tong University, Shanghai, China <b>Bachelor</b> of Computer Science & Engineering GPA (major) 3.95/4.00

## INTERNSHIP EXPERIENCE

I was an intern in Microsoft Research Asia (MSRA) during 2005-2007.

I was an intern in Microsoft Research (Redmond, WA) in 2011.

Jun.2011-Sep.2011	Worked with Larry Zitnick on hierarchical structure for image patch classification.
Aug.2007-Oct.2007	Worked with Xiaoou Tang, Ying-Qing Xu and Fang Wen on cartoon personalization system [8].
Jul.2006-Dec.2006	Worked with Rong Xiao, Fang Wen and Jingyu Cui on semi-automatic face clustering and annotation of family albums [9, 10].
May.2005-Aug.2005	Worked with Rong Xiao and Wu-jun Li on an evaluation system of various face recognition algorithms [11].

## AWARDS AND SCHOLARSHIP

Feb.2011	<b>Recipient of Microsoft Research PhD Fellowship</b> (2011-2013)
Nov.2004	First-class award of “China Undergraduate Mathematical Contest in Modeling”. Haochuan Fan, <b>Yuandong Tian</b> , Qi Wang. (Sorted on last names)
Mar.2005	“Meritorious Winner” award of “The Mathematical Contest in Modeling”. <b>Yuandong Tian</b> , Qi Wang, Chao Xia. (Sorted on last names)
Jun.2005	Outstanding graduate of Colleges and Universities in Shanghai.

## JOURNAL PUBLICATIONS

[1] **Yuandong Tian**, Srinivasa G. Narasimhan: Globally Optimal Estimation of Nonrigid Image Distortion, International Journal of Computer Vision (IJCV), Nov. 2011.

[2] Mohit Gupta, **Yuandong Tian**, Srinivasa G. Narasimhan, Li Zhang: A Combined Theory of Defocused Illumination and Global Light Transport, International Journal of Computer Vision (IJCV), Sep. 2011.

## CONFERENCE PUBLICATIONS

- [1] **Yuandong Tian**, Jun Zhu: Learning from Crowds in the Presence of Schools of Thought, ACM International Conference on Knowledge Discovery and Data Mining (SIGKDD), 2012, (Full Presentation).
- [2] **Yuandong Tian**, Srinivasa G. Narasimhan, Alan J. Vannevel: Depth from Optical Turbulence, Computer Vision and Pattern Recognition (CVPR) 2012.
- [3] **Yuandong Tian**, Srinivasa G. Narasimhan: Rectification and 3D reconstruction of Curved Document Images, Computer Vision and Pattern Recognition (CVPR) 2011, (**Oral Presentation**), 3.5% acceptance).
- [4] Dong Huang, **Yuandong Tian**, Fernando De la Torre, Local Isomorphism to Solve the Pre-image Problem in Kernel Methods, Computer Vision and Pattern Recognition (CVPR) 2011.
- [5] **Yuandong Tian**, Srinivasa G. Narasimhan: A Globally Optimal Data-Driven Approach for Image Distortion Estimation, Computer Vision and Pattern Recognition (CVPR) 2010, (**Oral Presentation**, 4% acceptance).
- [6] **Yuandong Tian**, Srinivasa G. Narasimhan: Seeing through water: Image restoration using model-based tracking, International Conference on Computer Vision (ICCV) 2009.
- [7] Mohit Gupta, **Yuandong Tian**, Srinivasa G. Narasimhan, Li Zhang: (De)Focusing on Global Light Transport for Active Scene Recovery, IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2009, (**Oral Presentation**, 3.5% acceptance).
- [8] Shifeng Chen, **Yuandong Tian**, Fang Wen, Ying-Qing Xu, Xiaoou Tang: Easytoon: an easy and quick tool to personalize a cartoon storyboard using family photo album, ACM Multimedia 2008.
- [9] **Yuandong Tian**, Wei Liu, Rong Xiao, Fang Wen, Xiaoou Tang: A Face Annotation Framework with Partial Clustering and Interactive Labeling, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2007.
- [10] Jingyu Cui, FangWen, Rong Xiao, **Yuandong Tian**, Xiaoou Tang: EasyAlbum: An Interactive Photo Annotation System Based on Face Clustering and Re-ranking, ACM Conference on Human Factors in Computing Systems (CHI) 2007.
- [11] Rong Xiao, Wu-Jun Li, **Yuandong Tian**, Xiaoou Tang: Joint Boosting Feature Selection for Robust Face Recognition, IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2006.

## TECHNICAL REPORTS

- [1] **Yuandong Tian**, Srinivasa G. Narasimhan: Theoretical Bounds in Distortion Estimation Algorithm, Technical Report CMU RI, Carnegie Mellon University, March 2010.
- [2] **Yuandong Tian**, Srinivasa G. Narasimhan: The Relationship between water depth and distortion, Technical Report CMU RI, Carnegie Mellon University, August 2009.
- [3] **Yuandong Tian**, Mohit Gupta, Srinivasa G. Narasimhan, Li Zhang, Relationship between projector defocus and global illumination for statistically-modeled scenes., Technical Report CMU-RI- TR-09-10, Carnegie Mellon University, March 2009.