Tianmin Shu

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Education	University of California, Los Angeles, I	Los Angeles, CA, USA 09/2014 - present	
	Ph.D. student in Statistics		
	Advisor: Song-Chun ZhuAreas of focus: human activity recognition, video event detection, human-robot interaction		
	Fudan University, Shanghai, China	09/2010 - 06/2014	
	B.S. in Electronic Engineering		
Research Experience	Center for Vision, Cognition, Learning Graduate Student Researcher	and Art, UCLA 09/2014 - present Advisor: Song-Chun Zhu	
	 Group activity recognition: learning deep structured models of group activities in videos Human-robot interaction: learning social affordances from RGB-D videos of human activities and transferring the learned knowledge to a humanoid (e.g., Baxter) to enable socially appropriate human-robot interactions 		
	Center for Vision, Cognition, Learning Research Intern	and Art, UCLA 07/2013 - 09/2013 Advisor: Song-Chun Zhu	
	• Inferring group events and roles in aerial videos; released an aerial video dataset for activity recognition and tracking		
	Digital Signal Processing and Transmission Lab, Fudan University06/2012 - 06/2014Research AssistantAdvisor: Bo Hu		
	• Real-time surveillance video stitching system; multi-object tracking and event detection in surveil- lance videos		
PUBLICATIONS	(* indicates equal contribution)		
	T. Shu , S. Todorovic and SC. Zhu. CERN: Confidence-Energy Recurrent Network for Group Activity Recognition. <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i> , 2017.		
	T. Shu , X. Gao, M. S. Ryoo and SC. Zhu. Learning Social Affordance Grammar from Videos: Transferring Human Interactions to Human-Robot Interactions. <i>IEEE International Conference on Robotics and Automation (ICRA), 2017.</i>		
	D. Xie, T. Shu , S. Todorovic and SC. Zhu. Modeling and Inferring Human Intents and Latent Functional Objects for Trajectory Prediction. arXiv:1606.07827 (under review for T-PAMI)		
	T. Shu, M. S. Ryoo and SC. Zhu. Learning Social Affordance for Human-Robot Interaction. 25th Internation Joint Conference on Artificial Intelligence (IJCAI), 2016. (acceptance rate: 558/2294= 24%)		
	T. Shu [*] , S. Thurman [*] , D. Chen, SC. Zhu and H. Lu. Critical Features of Joint Actions that Signal Human Interaction. 38th Annual Meeting of the Cognitive Science Society (CogSci), 2016.		

	T. Shu , D. Xie, B. Rothrock, S. Todorovic and SC. Zhu. Joint Inference of G Human Roles in Aerial Videos. <i>IEEE Conference on Computer Vision and I (CVPR), 2015.</i> (Oral presentation, acceptance rate: $71/2123 = 3.3\%$)	Groups, Events and Pattern Recognition	
Professional Service	Conference Reviewer: IEEE Conference on Computer Vision and Pattern Recognition (CVPR)		
Teaching Experience	 University of California, Los Angeles, Department of Statistics STATS 232A: Statistical Modeling and Learning in Vision and Cognition Teaching Assistant Graded homework and held office hours 	01/2016 - 03/2016	
	 STATS 130: Getting up to Speed with SPSS, Stata, SAS, and R Teaching Assistant Organized weekly discussion sessions, graded homework and held office hours Evaluation: 8.2 / 9.0 	03/2015 - 06/2015	
Selected	Outstanding Bachelor Thesis of Fudan University	2014	
Honors and	Shanghai Outstanding Graduate Award, Shanghai Municipal Education Commission, China 2014		
Awards	National Scholarship of China, Ministry of Education, China	2013	
	UCLA Cross-disciplinary Scholars in Science and Technology Scholarship	2013	
	Outstanding Student of Fudan University	2011, 2012, 2013	
	Tencent Innovative Scholarship for Outstanding Students at Fudan University	2012	
	First Prize of the Scholarship for Outstanding Students at Fudan University	2011	
	China Undergraduate Mathematical Contest in Modeling, Second Prize	2011	
	The ACM-ICPC Asia Regional Contest Harbin Site, Silver Prize	2010	

Computer Skills

- Programming: C/C++, MATLAB, R, Python, Perl, Java, Pascal, Assembly Language, VHDL
 Statistics Softwares: SAS, STATA, SPSS

 - Operating Systems: Linux, Mac OS X, Windows.