Tianmin Shu

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Education	University of California, Los Angeles, Los An	ngeles, CA, USA Expected: 06/2019	
	 Ph.D. student in Statistics Advisor: Song-Chun Zhu Areas of focus: human activity recognition, video event detection, human-robot interaction 		
	Fudan University , Shanghai, China B.S. in Electronic Engineering	09/2010 - 06/2014	
Research Experience	Salesforce Research, MetaMind Group, Palo Research Intern	Alto, CA, USA 06/2017 - present	
	• Communicative learning in dialogue systems using reinforcement learning		
	Center for Vision, Cognition, Learning and Graduate Student Researcher	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 and Research Intern	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 Research Assistant	Lab, Fudan University 06/2012 - 06/2014 Advisor: Bo Hu	
	• Real-time surveillance video stitching system; multi-object tracking and event detection in surveil- lance videos		
Publications	(* indicates equal contribution)		
	T. Shu [*] , Y. Peng [*] , L. Fan, H. Lu and SC. Zhu. Inferring Human Interaction from Motion Trajectories in Aerial Videos. <i>39th Annual Meeting of the Cognitive Science Society (CogSci), 2017.</i> (Oral presentation, acceptance rate: 255/873 = 29%) Computational Modeling Prize		
	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. (Acceptance rate: 783/2680 = 29%)		
	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> (Acceptance rate: 939/2289=41%)		
	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 [*] , 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 , 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 , D. Xie, B. Rothrock, S. Todorovic and SC. Zhu. Joint Inference of Groups, Events and Human Roles in Aerial Videos. <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2015.</i> (Oral presentation, acceptance rate: $71/2123 = 3.3\%$)		
Media Coverage	"Robots taught to work alongside humans by giving high fives." New Scientist. April 27, 2017		
Professional Service	 Conference Reviewer: - IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017 - IEEE International Conference on Computer Vision (ICCV), 2017 - IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2017 		
Teaching Experience	University of California, Los Angeles, Department of StatisticsSTATS 232A: Statistical Modeling and Learning in Vision and Cognition01/2016 - 03/2016- Teaching Assistant- Graded homework and held office hours		
	STATS 130: Getting up to Speed with SPSS, Stata, SAS, and R03/2015 - 06/2015- Teaching AssistantOrganized weekly discussion sessions, graded homework and held office hours- Evaluation: 8.2 / 9.09.0		
Selected Honors and Awards	Computational Modeling Prize (Perception/Action Category), Cognitive Science Society2017Outstanding Bachelor Thesis of Fudan University2014Shanghai Outstanding Graduate Award, Shanghai Municipal Education Commission, China2014National Scholarship of China, Ministry of Education, China2013UCLA Cross-disciplinary Scholars in Science and Technology Scholarship2013Outstanding Student of Fudan University2011, 2012, 2013Tencent Innovative Scholarship for Outstanding Students at Fudan University2012First Prize of the Scholarship for Outstanding Students at Fudan University2011China Undergraduate Mathematical Contest in Modeling, Second Prize2011The ACM-ICPC Asia Regional Contest Harbin Site, Silver Prize2010		
Skills	• Programming: C/C++, Python, ROS, MATLAB, R, Perl, Java		

- Statistics Softwares: SAS, STATA, SPSS
 Operating Systems: Linux, Mac OS X, Windows.