

Fuwen TAN

CONTACT	85 Engineer's Way Rice Hall 420, PO Box 400740 Charlottesville, VA 22904	fuwen.tan@virginia.edu Phone: (434)4660099 http://www.cs.virginia.edu/~ft3ex/
SUMMARY	I am a Ph.D. student in the Computer Science Department of University of Virginia (U.Va.), working with Dr. Vicente Ordóñez Román on Vision and Language. I am especially interested in learning compositional representations of image and language, and their applications to visual recognition, retrieval, and synthesis.	
EDUCATION	University of Virginia Ph.D. Program in Computer Science Advisor: Vicente Ordóñez Román	Charlottesville, United States Aug.2015 - Present
	Zhejiang University M.S.in Mathematics Advisor: Ligang Liu	Hangzhou, China Sep.2010 - Jun.2012
	Sun Yat-sen University B.S. in Mathematics	Guangzhou, China Sep.2006 - Jun.2010
RESEARCH	Drill-down: Interactive Retrieval of Complex Scenes using Natural Language Queries Fuwen Tan , Paola Cascante-Bonilla, Xiaoxiao Guo, Hui Wu, Song Feng, Vicente Ordonez Conf. on Neural Information Processing Systems (NeurIPS), 2019 Text2Scene: Generating Compositional Scenes from Textual Descriptions Fuwen Tan , Song Feng, Vicente Ordonez Conf. on Computer Vision and Pattern Recognition (CVPR), 2019, Oral, Best Paper Finalist Where and Who? Automatic Semantic-Aware Person Composition Fuwen Tan , Crispin Bernier, Benjamin Cohen, Vicente Ordonez, Connelly Barnes Winter Conference on Applications of Computer Vision (WACV), 2018 FaceCollage: A Rapidly Deployable System for Real-time Head Reconstruction for On-The-Go 3D Telepresence Fuwen Tan , Chi-Wing Fu, Teng Deng, Jianfei Cai, Tat Jen Cham ACM Multimedia (ACM MM , full paper), 2017 High-Quality Kinect Depth Filtering For Real-time 3D Telepresence Mengyao Zhao, Fuwen Tan , Chi-Wing Fu, Chi-Keung Tang, Jianfei Cai, Tat Jen Cham Conf. on Multimedia and Expo (ICME), 2013 Field-Guided Registration for Feature-Conforming Shape Composition Hui Huang, Minglun Gong, Daniel Cohen-Or, Yaobin Ouyang, Fuwen Tan , Hao Zhang SIGGRAPH Asia , 2012	
EXPERIENCE	Adobe Research, College Park, United States <i>Machine learning intern in Document Intelligence Labs</i> Research on structured analysis for multimodal documents. Manager: Tong Sun; Mentor: Vlad Morariu	June.2019 - Aug.2019

Amazon A9, Palo Alto, United States May.2018 - Aug.2018
Applied scientist intern in Visual Search & AR team
Design and implement a working solution for an improved image segmentation approach for creation of AR models.
Manager: Sundar Vedula; Mentor: Tony Hwang

Honda Research Institute, Mountain View, United States May.2016 - Aug.2016
Research intern in Perception Group
Research on applications of Deep Learning to traffic participant detection.
Manager: Bernd Heisele

Nanyang Technological University, Singapore Aug.2012 - Jul.2015
Research Associate at BeingThere Centre, Institute for Media Innovation
Design and implement a low-cost, fast and realistic system for personal 3D telepresence.
Supervisor: Chi-Wing Fu

TEACHING

Teaching Assistant
CS1113 (Programming), CS2150 (Data Structure) Aug.2015 - Dec.2015
CS4457 (Computer Networks), CS4810 (Computer Graphics) Jan.2016 - May.2016
CS6501 (Computational Visual Recognition) Aug.2016 - Dec.2016

SERVICE

Reviewer / Program Committee
Transactions on Image Processing(2017), ICCV(2019), AAAI(2020)