

Fuwen TAN

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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 instance level 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 Ordóñez Conf. on Neural Information Processing Systems (NeurIPS), 2019	
	Text2Scene: Generating Compositional Scenes from Textual Descriptions Fuwen Tan , Song Feng, Vicente Ordóñez 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 Ordóñez, 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), CVPR (2020)