

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 interested in learning compositional representations of images and text, 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	Curriculum Labeling: Self-paced Pseudo-Labeling for Semi-Supervised Learning Paola Cascante-Bonilla, Fuwen Tan , Yanjun Qi, Vicente Ordonez AAAI Conference on Artificial Intelligence. (AAAI), 2021	
	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 <i>Applied scientist intern in Visual Search & AR team</i> Design and implement a working solution for an improved image segmentation approach for the creation of AR models. Manager: Sundar Vedula; Mentor: Tony Hwang May.2018 - Aug.2018
	Honda Research Institute, Mountain View, United States <i>Research intern in Perception Group</i> Research on applications of Deep Learning to traffic participant detection. Manager: Bernd Heisele May.2016 - Aug.2016
	Nanyang Technological University, Singapore <i>Research Associate at BeingThere Centre, Institute for Media Innovation</i> Design and implement a low-cost, fast and realistic system for personal 3D telepresence. Manager: Chi-Wing Fu Aug.2012 - Jul.2015
INVITED TALKS	Learning Compositional Representation of Images and Text <i>Samsung Research America, November 2019</i>
	Instance Image Recognition using Reranking Transformers <i>eBay Research, January 2021</i>
	Learning Local Representation of Images and Text for Rich Visual Prediction <i>Bytedance AI Lab, January 2021</i>
TEACHING	Teaching Assistant <i>CS1113 (Programming), CS2150 (Data Structure)</i> <i>CS4457 (Computer Networks), CS4810 (Computer Graphics)</i> <i>CS6501 (Computational Visual Recognition)</i>
	Aug.2015 - Dec.2015 Jan.2016 - May.2016 Aug.2016 - Dec.2016
SERVICE	Reviewer / Program Committee AAAI, ICLR, CVPR, IJCAI, ICML, ICCV AAAI, CVPR, ECCV (Outstanding Reviewer), NeurIPS ICCV
	2021 2020 2019
REFERENCES	Vicente Ordóñez Román Assistant Professor, University of Virginia ▷ vicente@virginia.edu
	Connelly Barnes Senior Research Scientist, Adobe Research ▷ cbarnes@adobe.com
	Song Feng Research Staff Member, IBM Research Watson ▷ sfeng@us.ibm.com