

## Fuwen TAN

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CONTACT	fuwen.tan@gmail.com	<a href="https://fwtan.github.io/">https://fwtan.github.io/</a>
SUMMARY	I am a Researcher in the Samsung AI Center, Cambridge (SAIC-Cambridge), working on Vision, Language, and Learning.	
EDUCATION	<b>University of Virginia</b> Ph.D. in Computer Science Advisor: Vicente Ordóñez Román	Charlottesville, United States Aug.2015 - May.2021
	<b>Zhejiang University</b> M.S.in Mathematics	Hangzhou, China Sep.2010 - Jun.2012
	<b>Sun Yat-sen University</b> B.S. in Mathematics	Guangzhou, China Sep.2006 - Jun.2010
RESEARCH	<p>Instance-level Image Retrieval using Reranking Transformers <b>Fuwen Tan</b>, Jiangbo Yuan, Vicente Ordonez Arxiv:2103.12236, 2021</p> <p>Curriculum Labeling: Self-paced Pseudo-Labeling for Semi-Supervised Learning Paola Cascante-Bonilla, <b>Fuwen Tan</b>, Yanjun Qi, Vicente Ordonez AAAI Conference on Artificial Intelligence. (<b>AAAI</b>), 2021</p> <p>Drill-down: Interactive Retrieval of Complex Scenes using Natural Language Queries <b>Fuwen Tan</b>, Paola Cascante-Bonilla, Xiaoxiao Guo, Hui Wu, Song Feng, Vicente Ordonez Conf. on Neural Information Processing Systems (<b>NeurIPS</b>), 2019</p> <p>Text2Scene: Generating Compositional Scenes from Textual Descriptions <b>Fuwen Tan</b>, Song Feng, Vicente Ordonez Conf. on Computer Vision and Pattern Recognition (<b>CVPR</b>), 2019, <b>Oral</b>, <b>Best Paper Finalist</b></p> <p>Where and Who? Automatic Semantic-Aware Person Composition <b>Fuwen Tan</b>, Crispin Bernier, Benjamin Cohen, Vicente Ordonez, Connelly Barnes Winter Conference on Applications of Computer Vision (<b>WACV</b>), 2018</p> <p>FaceCollage: A Rapidly Deployable System for Real-time Head Reconstruction for On-The-Go 3D Telepresence <b>Fuwen Tan</b>, Chi-Wing Fu, Teng Deng, Jianfei Cai, Tat Jen Cham ACM Multimedia (<b>ACM MM</b>, <b>full paper</b>), 2017</p> <p>High-Quality Kinect Depth Filtering For Real-time 3D Telepresence Mengyao Zhao, <b>Fuwen Tan</b>, Chi-Wing Fu, Chi-Keung Tang, Jianfei Cai, Tat Jen Cham Conf. on Multimedia and Expo (<b>ICME</b>), 2013</p> <p>Field-Guided Registration for Feature-Conforming Shape Composition Hui Huang, Minglun Gong, Daniel Cohen-Or, Yaobin Ouyang, <b>Fuwen Tan</b>, Hao Zhang <b>SIGGRAPH Asia</b>, 2012</p>	

EXPERIENCE	<b>Samsung AI Center, Cambridge, United Kingdom</b>	June.2021 - Present
	<i>Researcher at the Future Interaction Team</i>	
	Produce high-impact research targeting the top Computer Vision and Machine Learning venues.	
	Help transfer the research outcomes into specific Samsung products.	
	<b>Adobe Research, College Park, United States</b>	June.2019 - Aug.2019
	<i>Machine learning intern at the Document Intelligence Lab</i>	
	Research on structured analysis for multimodal documents.	
	<b>Amazon A9, Palo Alto, United States</b>	May.2018 - Aug.2018
	<i>Applied scientist intern at the Visual Search &amp; AR team</i>	
	Design and implement a working solution for an improved image segmentation approach for the creation of AR models.	
	<b>Honda Research Institute, Mountain View, United States</b>	May.2016 - Aug.2016
	<i>Research intern in the Perception Group</i>	
	Research on applications of Deep Learning to traffic participant detection.	
	<b>Nanyang Technological University, Singapore</b>	Aug.2012 - Jul.2015
	<i>Research Associate at the BeingThere Centre, Institute for Media Innovation</i>	
	Design and implement a low-cost, fast and realistic system for personal 3D telepresence.	
INVITED TALKS	<b>Learning Compositional Representation of Images and Text</b>	
	<i>Samsung Research America, November 2019</i>	
	<b>Instance Image Recognition using Reranking Transformers</b>	
	<i>eBay Research, January 2021</i>	
	<b>Learning Local Representation of Images and Text for Rich Visual Prediction</b>	
	<i>Bytedance AI Lab, January 2021</i>	
	<i>Samsung AI Center, Cambridge, March 2021</i>	
SERVICE	<b>Reviewer / Program Committee</b>	
	ICLR	2022
	AAAI, ICLR, CVPR ( <a href="#">Outstanding Reviewer</a> ), IJCAI, ICML, ICCV, NeurIPS	2021
	AAAI, CVPR, ECCV ( <a href="#">Outstanding Reviewer</a> ), NeurIPS	2020
	ICCV	2019