

Fuwen TAN

CONTACT	fuwen.tan@gmail.com	https://fwtan.github.io/
SUMMARY	I am a Researcher in the Samsung AI Center, Cambridge (SAIC-Cambridge), working on Vision, Language, and Learning.	
EDUCATION	University of Virginia Ph.D. in Computer Science Advisor: Vicente Ordóñez Román	Charlottesville, United States Aug.2015 - May.2021
	Zhejiang University M.S.in Mathematics	Hangzhou, China Sep.2010 - Jun.2012
	Sun Yat-sen University B.S. in Mathematics	Guangzhou, China Sep.2006 - Jun.2010
RESEARCH	Instance-level Image Retrieval using Reranking Transformers Fuwen Tan , Jiangbo Yuan, Vicente Ordonez International Conference on Computer Vision (ICCV), 2021	
	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

Samsung AI Center, Cambridge, United Kingdom June.2021 - Present
Researcher at the Future Interaction Team

Produce high-impact research targeting the top Computer Vision and Machine Learning venues.
 Help transfer the research outcomes into specific Samsung products.

Adobe Research, College Park, United States June.2019 - Aug.2019
Machine learning intern at the Document Intelligence Lab
 Research on structured analysis for multimodal documents.

Amazon A9, Palo Alto, United States May.2018 - Aug.2018
Applied scientist intern at the Visual Search & AR team
 Design and implement a working solution for an improved image segmentation approach for the creation of AR models.

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

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

INVITED TALKS

Learning Compositional Representation of Images and Text
Samsung Research America, November 2019

Instance Image Recognition using Reranking Transformers
eBay Research, January 2021

Learning Local Representation of Images and Text for Rich Visual Prediction
Bytedance AI Lab, January 2021
Samsung AI Center, Cambridge, March 2021

SERVICE

Reviewer / Program Committee

ICLR, CVPR	2022
AAAI, ICLR, CVPR (Outstanding Reviewer), IJCAI, ICML, ICCV, NeurIPS	2021
AAAI, CVPR, ECCV (Outstanding Reviewer), NeurIPS	2020
ICCV	2019