

Fuwen TAN

CONTACT	fuwen.tan@gmail.com	https://fwtan.github.io/
SUMMARY	I am a Research Scientist in the Samsung AI Center, Cambridge (SAIC-Cambridge), working on Vision and Language.	
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
PREPRINT	Effective Self-supervised Pre-training on Low-compute networks without Distillation Fuwen Tan , Fatemeh Saleh, Brais Martinez Preprint, 2022	
	iBoot: Image-bootstrapped Self-Supervised Video Representation Learning Fatemeh Saleh, Fuwen Tan , Adrian Bulat, Georgios Tzimiropoulos, Brais Martinez Preprint, 2022	
PUBLICATION	EdgeViTs: Competing Light-weight CNNs on Mobile Devices with Vision Transformers Junting Pan, Adrian Bulat, Fuwen Tan , Xiatian Zhu, Lukasz Dudziak, Hongsheng Li, Georgios Tzimiropoulos, Brais Martinez European Conference on Computer Vision (ECCV), 2022	
	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 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.

SERVICE

Reviewer / Program Committee

AAAI, ICLR

2023

ICLR, CVPR, ICML ([Outstanding Reviewer](#)), ECCV, NeurIPS

2022

AAAI, ICLR, CVPR ([Outstanding Reviewer](#)), IJCAI, ICML, ICCV, NeurIPS

2021

AAAI, CVPR, ECCV ([Outstanding Reviewer](#)), NeurIPS

2020

ICCV

2019