

## Fuwen TAN

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SUMMARY	I am a Research Scientist in the Samsung AI Center, Cambridge (SAIC-Cambridge), working on Vision and Language.	
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
PREPRINT	iBoot: Image-bootstrapped Self-Supervised Video Representation Learning Fatemeh Saleh, <b>Fuwen Tan</b> , Adrian Bulat, Georgios Tzimiropoulos, Brais Martinez 2022	
PUBLICATION	Effective Self-supervised Pre-training on Low-compute Networks without Distillation <b>Fuwen Tan</b> , Fatemeh Saleh, Brais Martinez International Conference on Learning Representations ( <b>ICLR</b> ), 2023	
	EdgeViTs: Competing Light-weight CNNs on Mobile Devices with Vision Transformers Junting Pan, Adrian Bulat, <b>Fuwen Tan</b> , Xiatian Zhu, Lukasz Dudziak, Hongsheng Li, Georgios Tzimiropoulos, Brais Martinez European Conference on Computer Vision ( <b>ECCV</b> ), 2022	
	Instance-level Image Retrieval using Reranking Transformers <b>Fuwen Tan</b> , Jiangbo Yuan, Vicente Ordonez International Conference on Computer Vision ( <b>ICCV</b> ), 2021	
	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	
	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	
	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, Best Paper Finalist</b>	
	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	
	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