

## Fuwen TAN

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CONTACT	fuwen.tan@gmail.com	<a href="https://fwtan.github.io/">https://fwtan.github.io/</a>
SUMMARY	I'm a researcher in Efficient Machine Learning, working on making LLM and Video Diffusion Models faster.	
PUBLICATION	<p>Progressive Mixed-Precision Decoding for Efficient LLM Inference Hao Mark Chen, <b>Fuwen Tan</b>, Alexandros Kouris, Royson Lee, Hongxiang Fan, Stylianos I. Venieris International Conference on Learning Representations (<b>ICLR</b>), 2025</p> <p>MobileQuant: Mobile-friendly Quantization for On-device Language Models <b>Fuwen Tan</b>, Royson Lee, Lukasz Dudziak, Shell Xu Hu, Sourav Bhattacharya, Timothy Hospedales, Georgios Tzimiropoulos, Brais Martinez Conf. on Empirical Methods in Natural Language Processing, <b>EMNLP Findings</b>, 2024</p> <p>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</p> <p>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</p> <p>Instance-level Image Retrieval using Reranking Transformers <b>Fuwen Tan</b>, Jiangbo Yuan, Vicente Ordonez International Conference on Computer Vision (<b>ICCV</b>), 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 presentation</b> <a href="#">Best Paper Finalist</a></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>	

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

EDUCATION	<b>University of Virginia</b> Ph.D. in Computer Science	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
EXPERIENCE	<b>Bytedance, United States</b> <i>R&amp;D in Efficient Machine Learning</i>	Jan., 2025 - Present
	<b>Samsung AI Center, Cambridge, United Kingdom</b> <i>R&amp;D in Efficient Machine Learning</i>	Jun., 2021 - Jan., 2025
	<b>Nanyang Technological University, Singapore</b> <i>R&amp;D in 3D Telepresence</i>	Aug.2012 - Jul.2015
TALKS	<b>Toward Efficient On-device AI: the Model, the Training, and the Deployment</b> <i>University of Surrey, November 2024</i>	
SERVICE	<b>Program Committee</b> Siggraph Asia 2024 ( <a href="#">Technical Communications &amp; Posters</a> )	
	<b>Reviewer</b> Computer Vision: CVPR ( <a href="#">Outstanding Reviewer</a> ), ECCV( <a href="#">Outstanding Reviewer</a> ), ICCV, PAMI Machine Learning: ICML( <a href="#">Outstanding Reviewer</a> ), NeurIPS, ICLR, AAAI, IJCAI Natural Language Processing: EMNLP	
AWARDS	Computer Vision and Pattern Recognition ( <b>CVPR</b> ) <b>Best Paper Finalist</b>	2019
	European Conference on Computer Vision ( <b>ECCV</b> ) <a href="#">Outstanding Reviewer</a>	2020
	Computer Vision and Pattern Recognition ( <b>CVPR</b> ) <a href="#">Outstanding Reviewer</a>	2021
	International Conference on Machine Learning ( <b>ICML</b> ) <a href="#">Outstanding Reviewer</a>	2022