Fuwen TAN

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SUMMARY

I am a Ph.D. student in the Computer Science Department of University of Virginia (U.Va.), working with Dr. Vicente Ordóñez Román on Vision and Language. I am interested in learning compositional representations of images and text, and their applications to visual recognition, retrieval, and synthesis.

EDUCATION

University of Virginia — Charlottesville, United States
Ph.D. Program in Computer Science — Aug.2015 - Present
Advisor: Vicente Ordóñez Román

Zhejiang University — Hangzhou, China
M.S.in Mathematics — Sep.2010 - Jun.2012
Advisor: Ligang Liu

Sun Yat-sen University — Guangzhou, China
B.S. in Mathematics — Sep.2006 - Jun.2010

RESEARCH

Curriculum Labeling: Self-paced Pseudo-Labeling for Semi-Supervised Learning
Paola Cascante-Bonilla, **Fuwen Tan**, Yanjun Qi, Vicente Ordonez
arXiv:2001.06001. 2020

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	**Adobe Research, College Park, United States**	June.2019 - Aug.2019

Adobe Research, College Park, United States   June.2019 - Aug.2019
Machine learning intern in Document Intelligence Labs
Research on structured analysis for multimodal documents.
Manager: Tong Sun; Mentor: Vlad Morariu

Amazon A9, Palo Alto, United States   May.2018 - Aug.2018
Applied scientist intern in Visual Search & AR team
Design and implement a working solution for an improved image segmentation approach for creation of AR models.
Manager: Sundar Vedular; Mentor: Tony Hwang

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

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

TEACHING

Teaching Assistant
CS1113 (Programming), CS2150 (Data Structure)   Aug.2015 - Dec.2015
CS4457 (Computer Networks), CS4810 (Computer Graphics)   Jan.2016 - May.2016
CS6501 (Computational Visual Recognition)   Aug.2016 - Dec.2016

SERVICE

Reviewer / Program Committee
AAAI, ICLR, CVPR   2021
AAAI, CVPR, ECCV (top 215 reviewers), NeurIPS   2020
ICCV   2019