

## Fuwen TAN

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SUMMARY	<p>I am a Ph.D. student in the Computer Science Department of University of Virginia (U.Va.), working with Dr. Vicente Ordóñez Román. My research interests are in computer vision, natural language processing and graphics. More recently, I am especially interested in learning interpretable representations of human knowledge from visual data and language. I'm also interested in building intelligent systems for visual content retrieval and generation.</p> <p>Before joining the Ph.D. program in U.Va., I was a Research Associate at the BeingThere center of Nanyang Technological University, working on Computer Graphics and 3D Telepresence. I graduated from Sun-Yat sen University with a B.S. degree in Mathematics.</p>	
EDUCATION	<b>University of Virginia</b> Ph.D. Program in Computer Science Advisor: Vicente Ordóñez Román	Charlottesville, United States Aug.2015 - Present
	<b>Zhejiang University</b> M.S.in Mathematics Advisor: Ligang Liu	Hangzhou, China Sep.2010 - Jun.2012
	<b>Sun Yat-sen University</b> B.S. in Mathematics	Guangzhou, China Sep.2006 - Jun.2010
RESEARCH	<p>Text2Scene: Generating Abstract Scenes from Textual Descriptions <b>Fuwen Tan</b>, Song Feng, Vicente Ordonez arXiv preprint, 2018.</p> <p>Where and Who? Automatic Semantic-Aware Person Composition <b>Fuwen Tan</b>, Crispin Bernier, Benjamin Cohen, Vicente Ordonez, Connelly Barnes IEEE Winter Conference on Applications of Computer Vision (WACV), 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 (ACM MM, full paper), 2017</p> <p>High-Quality Kinect Depth Filtering For Real-time 3D Telepresence Mengyao Zhao, <b>Fuwen Tan</b>, Chi-Wing Fu, Chi-Keung Tang, Jianfei Cai, Tat Jen Cham IEEE International Conference on Multimedia and Expo (ICME), 2013</p> <p>Field-Guided Registration for Feature-Conforming Shape Composition Hui Huang, Minglun Gong, Daniel Cohen-Or, Yaobin Ouyang, <b>Fuwen Tan</b>, Hao Zhang SIGGRAPH ASIA, 2012</p>	
EXPERIENCE	<b>Amazon A9, Palo Alto, United States</b> <i>Applied scientist intern in Visual Search &amp; AR team</i> Design and implement a working solution for an improved image segmentation approach for creation	May.2018 - Aug.2018

of AR models.

Manager: Sundar Vedula; Mentor: Tony Hwang

**Honda Research Institute, Mountain View, United States**

May.2016 - Aug.2016

*Research intern in Perception Group*

Research on application 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

**AWARDS**

Merit Poster Award in GPU Technology Workshop South East Asia (GTW-SEA), 2014

Honor Graduate of Sun Yat-sen University, 2010

Freshman Scholarship of Sun Yat-sen University, 2006

Score#1 in Yangjiang, Guangdong, on China's National Higher Education Entrance Examination

**PROFESSIONAL  
SERVICES**

**Teaching Assistants**

*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

**Reviewer**

IEEE Transactions on Image Processing (TIP)

2017