

## Fuwen TAN

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Charlottesville, VA 22904 <http://www.cs.virginia.edu/~ft3ex/>
- SUMMARY** I am a Ph.D. student in the Computer Science Department of University of Virginia (U.Va.), working with Dr. Vicente Ordóñez Román. My areas of specialization are computer vision, graphics, and NLP. I am especially interested in learning compositional representations of image and language, and their applications to visual recognition, retrieval, and synthesis. Before joining U.Va., I was a Research Associate at the BeingThere center of Nanyang Technological University, working on Computer Graphics and 3D Telepresence.
- EDUCATION**
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| <b>University of Virginia</b><br>Ph.D. Program in Computer Science<br>Advisor: Vicente Ordóñez Román | Charlottesville, United States<br>Aug.2015 - Present |
| <b>Zhejiang University</b><br>M.S.in Mathematics<br>Advisor: Ligang Liu                              | Hangzhou, China<br>Sep.2010 - Jun.2012               |
| <b>Sun Yat-sen University</b><br>B.S. in Mathematics   | Guangzhou, China<br>Sep.2006 - Jun.2010              |
- RESEARCH**
- Text2Scene: Generating Compositional Scenes from Textual Descriptions  
**Fuwen Tan**, Song Feng, Vicente Ordonez  
arXiv preprint, 2018.
- Where and Who? Automatic Semantic-Aware Person Composition  
**Fuwen Tan**, Crispin Bernier, Benjamin Cohen, Vicente Ordonez, Connelly Barnes  
IEEE 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  
IEEE International Conference 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**
- |   |                     |
|---|---------------------|
| <b>Amazon A9, Palo Alto, United States</b><br><i>Applied scientist intern in Visual Search &amp; AR team</i><br>Design and implement a working solution for an improved image segmentation approach for creation of AR models.<br>Manager: Sundar Vedular; Mentor: Tony Hwang | May.2018 - Aug.2018 |
|---|---------------------|

**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

AWARDS

Honor Graduate of Sun Yat-sen University, 2010  
Freshman Scholarship of Sun Yat-sen University, 2006

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