

# Fan Wang

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CONTACT	Department of Computer Science	mobile: (631) 559-0857
INFORMATION	Stony Brook University, Stony Brook, NY, 11794	E-mail: fan.gordon.wang@gmail.com
EDUCATION	<b>Stony Brook University</b> , Stony Brook, NY <i>Ph.D. Candidate, Computer Science</i> <ul style="list-style-type: none"><li>• GPA: 3.86 / 4.0</li><li>• Advisor: Prof. Chao Chen</li></ul> <b>National University of Singapore</b> , Singapore <i>M.S. Electrical Engineering</i> <ul style="list-style-type: none"><li>• CAP: 4.3 / 5.0 (GPA: 3.52 / 4.0)</li><li>• Advisor: Prof. Ying Sun      Examiner: Prof. Shih-Cheng Yen</li><li>• Master Thesis: Resource-Efficient Adaptation Techniques for Brain-Computer Interfaces</li></ul> <b>Lanzhou University</b> , Lanzhou, Gansu, China <i>B.S. Computer Science</i> <ul style="list-style-type: none"><li>• GPA: 3.89 / 4.0 (Rank: 2 / 77)</li><li>• Advisor: Prof. Wei Su</li><li>• Undergraduate Thesis: Information Accessibility Oriented Mathematical Formulas Conversion</li></ul>	<b>Sep. 2016 – Present</b>     <b>Sep. 2012 – Jul. 2013</b>     <b>Sep. 2008 – Jun. 2012</b>
WORK	<b>VI DIMENSIONS PTE LTD</b> , Singapore	<b>Jan. 2016 – Aug. 2016</b>
EXPERIENCE	<b>CUDA-ACCELERATION OF VIDEO SURVEILLANCE SYSTEM</b> Design and implement a CUDA accelerated GMM background subtraction system for video surveillance. <b>Singapore University of Technology and Design</b> , Singapore <b>NEIGHBOR-PROXIMITY CONCERNED DISAMBIGUATION FRAMEWORK</b> Propose a neighborhood proximity concerned minimum spanning tree method for repetitive structures disambiguation in structure from motion. <b>ADSC Illinois at Singapore Pte. Ltd</b> , Singapore <b>WIDE-BASELINE FEATURE MATCHING SYSTEM</b> Develop a feature matching system which reliably generates large numbers of good quality correspondences over wide baselines where previous techniques provide few or no matches. <b>CUDA AFFINE SIFT</b> Build an affine-SIFT module from Changchang Wu's SiftGPU with affine simulations performed inside device memory. CUDA affine-SIFT achieves up to 30 times speedup. <b>MAGIC TOUCH</b> Develop software to animate still images with fun and eye-catching visual effects. The project was covered by <i>the Strait Times</i> (Singapore based newspaper) in April 2014.	     <b>Oct. 2015 – Jan. 2016</b>     <b>Sep. 2013 – Sep. 2015</b>
HONOURS AND	National Scholarship of China, Dec 2009	
AWARDS	First Class Scholarship of Lanzhou University, Dec 2010 First Class Scholarship of Lanzhou University, Dec 2011	

- PUBLICATIONS
1. **Fan Wang**, Huidong Liu, Dimitris Samaras, Chao Chen, "TopoGAN: A Topology-Aware Generative Adversarial Network." European Conference on Computer Vision (**ECCV**), 2020, (Oral, acceptance rate 2.1%).
  2. **Fan Wang**, Aditi Nayak, Yogesh Agrawal, Roy Shilkrot, "Hierarchical Image Link Selection Scheme for Duplicate Structure Disambiguation." *British Machine Vision Conference (BMVC)*, 2018.
  3. Wen-Yan Lin, **Fan Wang**, Min-Ming Cheng, Sai-Kit Yeung, Philip H.S. Torr, Minh N. Do, Jiangbo Lu, "CODE: Coherence Based Decision Boundaries for Feature Correspondence." *Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2017.
- SKILLS
- C, C++, Java, CUDA C, Matlab, QML, OpenCV, Eigen, Python.