

Qianqian Wang

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Cornell University – Ithaca – NY, 14850

Education

- *PhD Student*, Computer Science, **Cornell University** *Aug. 2018 – Present*
 - Research interests: computer vision, machine learning, optimization
- *B.Eng.*, Information Engineering, **Zhejiang University, China** *Sep. 2014 – Jun. 2018*
 - Minor: Advanced Class of Engineering Education (Honors Program)
 - GPA: 3.94/4 Ranking: 4/162
 - Advisor: Prof. Xiaowei Zhou
- *Research Intern*, **University of Pennsylvania** *Jul. 2017 – Oct. 2017*
 - Advisor: Prof. Kostas Daniilidis

Publications

- **Qianqian Wang**, Xiaowei Zhou, Kostas Daniilidis, *Multi-Image Semantic Matching by Mining Consistent Features*, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018.

Research Experiences

- **Category-Specific Keypoint Detection and Pose Estimation** **Zhejiang University**
Undergraduate Research, Advisor: Prof. Xiaowei Zhou *May. 2018 – Present*
 - learning category-specific keypoint detectors and 3D models from keypoint annotations provided by multi-image matching
 - estimating object shape and viewpoint from single RGB image using the learned category-specific model
- **Self-Supervised Descriptor Learning for Semantic Matching** **Zhejiang University**
Undergraduate Thesis, Advisor: Prof. Xiaowei Zhou *Oct. 2017 – Jun. 2018*
 - trained a Siamese network to learn dense feature descriptors, where the supervision came from cycle consistency and geometric constraints
- **Multi-Image Semantic Matching** **University of Pennsylvania**
GRASP Laboratory Intern, Advisor: Prof. Kostas Daniilidis *Jul. 2017 – Oct. 2017*
 - proposed a novel approach that selected and matched reliable features across multiple images
 - improved matching accuracy by enforcing geometric consistency using a low-rank constraint
 - achieved competitive performance on multi-graph matching and semantic flow benchmarks
 - demonstrated applications to object-class reconstruction and automatic landmark annotation
- **RGB-D Salient Object Detection** **Zhejiang University**
Undergraduate Research, Advisor: Prof. Xiaojin Gong *May. 2016 – May. 2017*

- integrated prior information of color, orientation and depth to obtain the saliency map
- optimized the global saliency map using PageRank and Markov Random Fields

Honors and Awards

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| ○ National Scholarship (top 2%), China | <i>Nov. 2015</i> |
| ○ First-Class Scholarship for Outstanding Students (top 3%), China | <i>Oct. 2017</i> |
| ○ Zhejiang Daily & Alibaba New Media Scholarship (top 3%), China | <i>Oct. 2017</i> |
| ○ The Samsung Scholarship (top 5%) | <i>Nov. 2016</i> |
| ○ Scholarship for Excellence in Research and Innovation, China | <i>Nov. 2016</i> |
| ○ First Prize in Mathematical Contest in Modeling of Zhejiang University, China | <i>Jun. 2016</i> |

Skills

- Python, MATLAB, C/C++, Tensorflow, Caffe