# Jianbo **Jiao**

Ph.D. Candidate · Computer Science

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## Education

### City University of Hong Kong (CityU)
*Sep. 2015 - Present*

Ph.D. in Computer Science
*GPA: 4.0/4.2*

- Research interests include computer vision, computer graphics, and deep learning.

### Peking University (PKU)
*Sep. 2012 - Jul. 2015*

M.S. in Computer Applied Technology
*GPA: 3.76/4.0*

- Be recommended for admission eligibility.

### Southwest Jiaotong University (SWJTU)
*Sep. 2008 - Jul. 2012*

B.Eng. in Computer Science and Technology
*GPA: 3.71/4.0*

- Mao Yi-sheng Honors Class.

## Publications

**Delving into Salient Object Subitizing and Detection**
Shengfeng He, **Jianbo Jiao**, Xiaodan Zhang, Guoqiang Han, Rynson W.H. Lau
*International Conference on Computer Vision (**ICCV**)*, 2017

**Joint Image Denoising and Disparity Estimation via Stereo Structure PCA and Noise-Tolerant Cost**
**Jianbo Jiao**, Qingxiong Yang, Shengfeng He, Shuhang Gu, Lei Zhang, Rynson W. H. Lau
*International Journal of Computer Vision (**IJCV**)*, 2017

**FormResNet: Formatted Residual Learning for Image Restoration**
**Jianbo Jiao**, Wei-chi Tu, Shengfeng He, Rynson W. H. Lau
*IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**) Workshop (NTIRE),Oral*, 2017

**A Hand Pose Tracking Benchmark From Stereo Matching**
Jiawei Zhang, **Jianbo Jiao**, Mingliang Chen, Liangqiong Qu, Xiaobin Xu, Qingxiong Yang
*IEEE International Conference on Image Processing (**ICIP**)*, 2017

**Color Image Guided Boundaryinconsistent Region Refinement for Stereo Matching**
**Jianbo Jiao**, Ronggang Wang, Wenmin Wang, Dagang Li, Wen Gao
*IEEE Transactions on Circuits and Systems for Video Technology (**TCSVT**)*, 2015

**Local Stereo Matching with Improved Matching Cost and Disparity Refinement**
**Jianbo Jiao**, Ronggang Wang, Wenmin Wang, Shengfu Dong, Zhenyu Wang, Wen Gao
*IEEE Multimedia*, 2014

**Cost-Volume Filtering-Based Stereo Matching with Improved Matching Cost and Secondary Refinement**
**Jianbo Jiao**, Ronggang Wang, Wenmin Wang, Shengfu Dong, Zhenyu Wang, Wen Gao
*IEEE International Conference on Multimedia and Expo (**ICME**)*, Oral, **Best Student Paper** candidate, 2014

**Depth Map and Disparity Map Refinement Method and Equipment**
**Jianbo Jiao**, Ronggang Wang, Zhenyu Wang, Wenmin Wang, Wen Gao
*PCT Patent, **PCT/CN2015/078382[P]***, 2015

**RADAR Disparity Refinement, Stereo Matching and Refinement System**
**Jianbo Jiao**, Ronggang Wang, Zhenyu Wang, Wen Gao, Wenmin Wang, Shengfu Dong
*Chinese Patent, **201310698887.1[P]***, 2013

# Honors & Awards

| | | |
|---|---|---|
| 2015 - Present | Hong Kong PhD Fellowship Scheme | *Research Grants Council (RGC) of Hong Kong* |
| 2015 - 2016 | Chow Yei Ching School of Graduate Studies Entrance Scholarships | *CityU* |
| Jul. 2015 | Outstanding Graduate Thesis of Peking University | *PKU* |
| Jul. 2015 | Outstanding Graduate of Beijing | *Beijing Municipal Education Commission* |
| Jun. 2015 | Outstanding Graduate of Peking University | *PKU* |
| Dec. 2014 | National Scholarship (graduate student), **Top 0.4%** | *Ministry of Education of the P.R.C* |
| Oct. 2014 | "Innovation Award" of PKU, **Top 0.8%** | *PKU* |
| 2014 | Research Excellence Award, twice | *Digital Media R&D Center, PKU* |
| Dec. 2013 | "Wu Si" Scholarship | *PKU* |
| Dec. 2013 | Social Work Award | *PKU* |
| 2011 | Mao Yisheng Railway Educational Star of Hope, **Top 0.01%** | *Mao Yi-sheng science and technology education foundation* |
| Nov. 2011 | Medal of "Si Shi Yang Hua", **Highest personal honor of SWJTU** | *SWJTU* |
| Nov. 2010 | National Scholarship (undergraduate student) | *Ministry of Education of the P.R.C* |
| 2008 - 2012 | Undergraduate Scholarship (each semester), Merit student | *SWJTU* |

# Teaching Experience

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|---|---|---|
| 2015 - 2016 | **Certificate of Merit** for good performance in *Teaching Students: First Steps* | *Graduate Studies, CityU* |
| Jan. 2017 – May 2017 | **Teaching Assistant** Computer Graphics (CS4182/CS5182) | *Department of Computer Science, CityU* |
| Aug. 2016 – Jan. 2017 | **Teaching Assistant** Multimedia Technologies and Applications (CS4185) | *Department of Computer Science, CityU* |
| Jan. 2016 – May 2016 | **Teaching Assistant** Computer Vision for Interactivity (CS4187) | *Department of Computer Science, CityU* |
| Sep. 2015 – Jan. 2016 | **Teaching Assistant** Computer Programming (CS2311) | *Department of Computer Science, CityU* |
| Mar. 2013 – Jun. 2013 | **Teaching Assistant** Digital Media Software and System Development (04703920) | *School of Electronic and Computer Engineering, PKU* |
| Sep. 2012 – Jan. 2013 | **Teaching Assistant** Fundamentals of Digital Media Technology (04713901) | *School of Electronic and Computer Engineering, PKU* |

# Professional Activities

**Reviewer**

- Neurocomputing
- IEEE Signal Processing Letters

**Memberships**

- IEEE Membership (Graduate Student Member)
- IEEE Young Professionals
- Pattern Analysis and Machine Intelligence, IEEE Computer Society Technical Committee on
- ACM SIGGRAPH Membership

# Skills

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|---|---|
| Programming | C/C++, Matlab, Python, and LaTeX |
| Tools & Framework | Proficient in OpenCV, MatConvNet, and Torch/PyTorch. Experience with QT, OpenMP, OpenGL, and Git. |