

# 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

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Aug. 2017	Outstanding Academic Performance Award	CityU
2017 - 2018	Research Tuition Scholarship	CityU
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), <b>Top 0.4%</b>	Ministry of Education of the P.R.C
Oct. 2014	"Innovation Award" of PKU, <b>Top 0.8%</b>	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, <b>Top 0.01%</b>	Mao Yi-sheng science and technology education foundation
Nov. 2011	Medal of "Si Shi Yang Hua", <b>Highest personal honor of SWJTU</b>	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	<b>Certificate of Merit</b> for good performance in <i>Teaching Students: First Steps</i>	Graduate Studies, CityU
Jan. 2017 - May 2017	<b>Teaching Assistant</b> Computer Graphics (CS4182/CS5182)	Department of Computer Science, CityU
Aug. 2016 - Jan. 2017	<b>Teaching Assistant</b> Multimedia Technologies and Applications (CS4185)	Department of Computer Science, CityU
Jan. 2016 - May 2016	<b>Teaching Assistant</b> Computer Vision for Interactivity (CS4187)	Department of Computer Science, CityU
Sep. 2015 - Jan. 2016	<b>Teaching Assistant</b> Computer Programming (CS2311)	Department of Computer Science, CityU
Mar. 2013 - Jun. 2013	<b>Teaching Assistant</b> Digital Media Software and System Development (04703920)	School of Electronic and Computer Engineering, PKU
Sep. 2012 - Jan. 2013	<b>Teaching Assistant</b> Fundamentals of Digital Media Technology (04713901)	School of Electronic and Computer Engineering, PKU

## Professional Activities

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### 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.