

Dr. Xiaoyong SHEN

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EDUCATION

Ph.D | 2013 - 2016 | The Chinese University of Hong Kong (CUHK), Hong Kong

- Major: Computer Vision and Computer Graphics
- Supervisor: Prof. Jiaya Jia

M.S. | 2010 - 2012 | Zhejiang University (ZJU), Hangzhou, China

- Major: Applied Mathematics and Computer Graphics
- Supervisor: Prof. Ligang Liu

B.S. | 2006 - 2010 | Zhejiang University (ZJU), Hangzhou, China

- Major: Computational Mathematics

INTERESTS

Computer Vision

- Image Processing: Filtering, Denoising, Deblurring, Super-resolution, Matting, etc.
- Image Correspondence Estimation: Stereo Matching, Optical Flow, Natural Image Matching, Depth Refinement, etc.

Computer Graphics

- Digital Geometry Processing, 3D Reconstruction, etc.

Machine Learning

- Deep learning for image classification, segmentation and object detection.

PUBLICATIONS

- **Xiaoyong Shen**, Xin Tao, Chao Zhou, Hongyun Gao, Jiaya Jia. Regional Foremost Matching for Internet Images. *ACM Transactions on Graphics (TOG)*, 2016 (Proc. SIGGRAPH ASIA 2016).
- **Xiaoyong Shen**, Xin Tao, Hongyun Gao, Chao Zhou, Jiaya Jia. Deep Automatic Portrait Matting. **ICCV**, 2016. (Spotlight Presentation)
- **Xiaoyong Shen**, Aaron Hertzmann, Jiaya Jia, Sylvain Paris, Brain Paris, Eli Schechtman, Ian Sachs. Automatic Portrait Segmentation for Image Stylization. **Eurographics** 2016.
- **Xiaoyong Shen**, Chao Zhou, Li Xu, Jiaya Jia. Mutual-Structure for Joint Filtering. **ICCV** 2015 (Oral Presentation).
- Di Lin, **Xiaoyong Shen**, Cewu Lu, Jiaya Jia. Deep LAC: Deep Localization, Alignment and Classification for Fine-grained Recognition. **CVPR** 2015.
- **Xiaoyong Shen**, Qiong Yan, Li Xu, Lizhuang Ma, Jiaya Jia. Multi-spectral Joint Image Restoration via Optimizing a Scale Map. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 37, no. 12, 2015.

- **Xiaoyong Shen**, Li Xu, Qi Zhang, Jiaya Jia. Multi-modal and Multi-spectral Registration for Natural Images. **ECCV 2014**.
- Qi Zhang, **Xiaoyong Shen**, Li Xu, Jiaya Jia. Rolling Guidance Filter. **ECCV 2014** (Oral Presentation).
- Qiong Yan, **Xiaoyong Shen**, Li Xu, Jiaya Jia. Cross-field Joint Image Restoration via Scale Map. **ICCV 2013**.
- Jinliang Wu, **Xiaoyong Shen**, Wei Zhu, Ligang Liu. Mesh Saliency with Global Rarity. *Graphical Models*, 75(5): 255-264, 2013.
- Jinliang Wu, **Xiaoyong Shen**, Ligang Liu. Interactive two scale Color-to-gray. *The Visual Computer*, 28(6-8), 723-731, 2012.

EXPERIENCES

Research Intern | Adobe Systems Inc. | Jun. 2015 – Sep. 2015

- Advisors: Ian Sachs, Sylvain Paris, Aaron Hertzmann, Eli Shechtman and Brian Price.
- Research Projects: Automatic Portrait Segmentation

Research Assistant | CUHK | Aug. 2012 – Jul. 2013

- Advisor: Prof. Jiaya Jia
- Research Topics: Image Restoration, Optical Flow and Stereo Matching.

PROFESSIONAL ACTIVITIES

Journal/ Conference reviews: TPAMI, IJCV, TIP, TCSVT, TVC, TVCG, ICCV, ECCV, Eurographics, etc.

HONORS & AWARDS

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|---|-------------|
| · CUHK Postgraduate Studentship | 2013 - 2016 |
| · Outstanding Graduate Awards of Zhejiang University | 2012 |
| · Excellent Bachelor Thesis in Zhejiang University | 2010 |
| · Outstanding Graduate Awards of Zhejiang University | 2010 |
| · National Scholarship | 2009 |
| · The First Prize of Research and Renovation of ZJU | 2008 |
| · National Scholarship of Encouragement | 2008 |
| · Excellent Student Scholarship in Zhejiang University | 2007 - 2010 |
| · The Title of Excellent All-round Student in Zhejiang University | 2007 - 2010 |
| · Outstanding Student Cadres in Zhejiang University | 2008 |

REFERENCES

Ph.D. Supervisor | Prof. Jiaya Jia

- <http://www.cse.cuhk.edu.hk/~leojia/>

M.S. Supervisor | Prof. Ligang Liu

- <http://staff.ustc.edu.cn/~lgliu/>