

Yawei Li

Curriculum Vitae

Computer Vision Lab
ETH Zürich
☎ (+41) 779174917
✉ yawei.li@vision.ee.ethz.ch
🌐 My Webpage
🐙 Github in LinkedIn



Education

2017–present	ETH Zürich Ph.D in Computer Science Supervisor: Luc Van Gool	Zürich, Switzerland.
2014–2017	University of Electronic Science and Technology of China Master of Science, Communication and Information System Supervisor: Xiaofeng Li	Chengdu, China.
2010–2014	University of Electronic Science and Technology of China Bachelor of Engineering, Communication Engineering	Chengdu, China.
2010–2014	University of Electronic Science and Technology of China Bachelor of Economics, Finance (Dual degree)	Chengdu, China.

Publications

Preprints

- 2020 Yunxuan Wei, Shuhang Gu, **Yawei Li**, and Longcun Jin. Unsupervised real-world image super resolution via domain-distance aware training. *arXiv preprint arXiv:2004.01178*, 2020.
- 2020 **Yawei Li**, Wen Li, Martin Danelljan, Zhang Kai, Shuhang Gu, Luc Van Gool, and Radu Timofte. The heterogeneity hypothesis: Finding layer-wise dissimilated network architecture. 2020.
- 2020 **Yawei Li**, Shuhang Gu, Kai Zhang, Luc Van Gool, and Radu Timofte. DHP: Differentiable meta pruning via hypernetworks. *arXiv preprint arXiv:2003.13683*, 2020.

Peer-Reviewed Conference Publications

- 2020 **Yawei Li**, Shuhang Gu, Christoph Mayer, Luc Van Gool, and Radu Timofte. Group sparsity: The hinge between filter pruning and decomposition for network compression. In *Proceedings of the IEEE International Conference on Computer Vision*, 2020.
- 2019 **Yawei Li**, Vagia Tsiminaki, Radu Timofte, Marc Pollefeys, and Luc Van Gool. 3D appearance super-resolution with deep learning. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*, pages 9671–9680, 2019.
- 2019 **Yawei Li**, Shuhang Gu, Luc Van Gool, and Radu Timofte. Learning filter basis for convolutional neural network compression. In *Proceedings of the IEEE International Conference on Computer Vision*, 2019.
- 2019 Shuhang Gu, **Yawei Li**, Luc Van Gool, and Radu Timofte. Self-guided network for fast image denoising. In *Proceedings of the IEEE International Conference on Computer Vision*, 2019.
- 2018 **Yawei Li**, Eirikur Agustsson, Shuhang Gu, Radu Timofte, and Luc Van Gool. CARN: convolutional anchored regression network for fast and accurate single image super-resolution. In *Proceedings of the European Conference on Computer Vision Workshops*, pages 166–181. Springer, 2018.
- 2016 **Yawei Li**, Xiaofeng Li, Zhizhong Fu, and Wenli Zhong. Multiview video super-resolution via information extraction and merging. In *Proceedings of the ACM International Conference on Multimedia*, pages 446–450. ACM, 2016.

- 2016 **Yawei Li**, Xiaofeng Li, Zhizhong Fu, Xiuxia Yin, and Yufei Zhao. Bilateral video super-resolution using non-local means with adaptive parameters. In *Proceedings of the IEEE International Conference on Image Processing*, pages 1155–1159. IEEE, 2016.
- 2016 **Yawei Li**, Xiaofeng Li, Zhizhong Fu, Tingting Niu, and Keyu Long. Spatiotemporal super-resolution for multiview video in transform domain. In *Proceedings of Visual Communications and Image Processing*, pages 1–4. IEEE, 2016.
- 2016 Gang Chen, **Yawei Li**, and Sargur N Srihari. Joint visual denoising and classification using deep learning. In *Proceedings of the IEEE International Conference on Image Processing*, pages 3673–3677. IEEE, 2016.

Peer-Reviewed Journal Publications

- 2018 **Yawei Li**, Xiaofeng Li, and Zhizhong Fu. Modified non-local means for super-resolution of hybrid videos. *Computer Vision and Image Understanding*, volume 168, pages 64–78. Elsevier, 2018.
- 2016 **Yawei Li**, Xiaofeng Li, Norman C Beaulieu, and Zhizhong Fu. Envelope and phase statistics of cauchy quadratures. *Electronics Letters*, volume 52, pages 1132–1134. IET, 2016.
- 2016 Zhizhong Fu, **Yawei Li**, Yuan Li, Lan Ding, and Keyu Long. Frequency domain based super-resolution method for mixed-resolution multi-view images. *Journal of Systems Engineering and Electronics*, volume 27, pages 1303–1314. BIAI, 2016.

Selected Awards

- 07/2019 **Best Poster Presentation Award**, International Computer Vision Summer School, Sicily, Italy.
- 09/2018 **Runner-up in PIRM 2018 Challenge**, Workshop and Challenge on Perceptual Image Restoration and Manipulation, European Conference on Computer Vision, Munich, Germany.
- 12/2016 **National Scholarship**, Ministry of Education of China.
- 11/2016 **Tang Lixin Scholarship**, University of Electronic Science and Technology of China.
- 12/2015 **National Scholarship**, Ministry of Education of China.
- 12/2013 **National Scholarship**, Ministry of Education of China.
- 12/2012 **CASC First-Class Scholarship**, China Aerospace Science and Technology Corporation.

Academic Services

Teaching Assistantship

- Fall, 2019 **263-5902-00L: Computer Vision**, Lecturers: Marc Pollefeys, Vittorio Ferrari Luc Van Gool.
- Fall, 2018 **263-5902-00L: Computer Vision**, Lecturers: Marc Pollefeys, Vittorio Ferrari Luc Van Gool.
- Fall, 2017 **263-5902-00L: Computer Vision**, Lecturers: Luc Van Gool, Vittorio Ferrari, Andreas Geiger.

Conference Reviewer

- Computer Vision and Pattern Recognition (CVPR)
- Neural Information Processing Systems (NeurIPS)
- Asian Conference on Computer Vision (ACCV)
- Winter Conference on Applications of Computer Vision (WACV)

Languages

- Chinese: Native; English: Fluent

Computer Skills

- Programming: Python, PyTorch, Tensorflow, C++, Matlab
- Typesetting: L^AT_EX