Dejia Xu

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Education

2017 – now	**School Of Electronics Engineering and Computer Science**, *Peking University*, Beijing.
2014 – 2017	**Dalian No.24 High School**, Liaoning.

Selected Awards

2016	National Olympiad in Informatics, Bronze medal
2016	National Olympiad in Informatics Winter Camp, Silver medal
2015	National Olympiad in Informatics, Bronze medal

Languages

- Chinese (Native)
- English (Fluent – CET-4: 585, CET-6: 571)

Research Experience

2018.7 - now **Spatial and Temporal Restoration, Understanding and Compression Team**
Wangxuan Institute of Computer Technology, Peking University
Research Intern. Advised by Prof. Jiaying Liu.
Projects:
- Single Image Deraining
- Joint Inpainting and Colorization
- Low Light Enhancement and Face Detection.

Service:
- Co-organize the workshop and challenge: "Bridging the Gap between Computational Photography and Visual Recognition (UG2+)", in conjunction with IEEE CVPR 2019

Current Research Interests

- Deep learning based image processing
- Image enhancement in adverse conditions

Publications

[1] Wenhan Yang, Shiqi Wang, **Dejia Xu**, Xiaodong Wang and Jiaying Liu. "Towards Scale-Free Rain Streak Removal via Self-Supervised Fractal Band Learning," *Proc. AAAI Conf. on Artificial Intelligence*, 2020.

[2] Minhao Fan, **Dejia Xu**, Wenjing Wang, Jiaying Liu. "Semantic Layer-Aware Low-Light Enhancement," *In Submission*, 2020.

[3] **Dejia Xu**, Wenhan Yang, Minhao Fan, Jiaying Liu. "From Signal Restoration to Machine Perception: A Novel Benchmark for Low-Light Enhancement," *In Submission*, 2020.

Selected Projects

1 The OI Wiki project and its ecosystem which aims to share knowledge about competitive programming. Available at github.com/OI-wiki/OI-wiki.

2 Collaborated in the development of pytorch-lightning (a lightweight PyTorch wrapper for ML researchers). Available at github.com/williamFalcon/pytorch-lightning.

3 Website for SAST(Student Association for Science and Technology) in PKU-EECS to manage contestants and volunteers, written in Node.js with Express.js.
Available at github.com/KnowingNothing/web_server_sast.

4 A tool to compile markdown syntax tree (github.com/syntax-tree/mdast) to LaTeX, written in Node.js with remarkjs. Available at github.com/Ir1d/remark-latex.

5 (2016 - 2017.7) Maintained hosts file (for IPv4 Google access in mainland China) for academic use. Available at github.com/GoogleHosts/hosts.