



Hai Jiang

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EDUCATION

•Ph.D. - Sichuan University

Aeronautical and Astronautical Science and Technology

2023-present

Supervisor: Prof. Songchen Han

•Master - Sichuan University

Aeronautical and Astronautical Science and Technology

2020-2023

Supervisor: Prof. Songchen Han

•Bachelor - Sichuan University

Aircraft Control and Information Engineering

2016-2020

Supervisor: Prof. Songchen Han

PROFESSIONAL EXPERIENCES

•Research Inter - Megvii Technology

Research area: Homograph Estimation and Low-Light Image Enhancement

Jan. 2022-present

Supervisor: Prof. Shuaicheng Liu

PUBLICATIONS-JOURNAL

•*: Equal contributions, †: Corresponding author

- [1]. **Hai Jiang**, Yang Ren, Songchen Han[†]. “Revisiting Coarse-to-fine Strategy for Low-Light Image Enhancement with Deep Decomposition Guided Training”. *Computer Vision and Image Understanding (CVIU)*, 2024. [\[PDF\]](#) [\[GitHub\]](#)
- [2]. **Hai Jiang**, Ao Luo, Haoqiang Fan, Songchen Han, Shuaicheng Liu[†]. “Low-Light Image Enhancement with Wavelet-based Diffusion Models”. *ACM Transactions on Graphics (ToG, Proceedings of SIGGRAPH Asia)*, 2023. [\[PDF\]](#) [\[GitHub\]](#)
- [3]. **Hai Jiang**, Xuan Zhu, Yang Ren, Yutong Hao, Fengzhu Zou, Lin Fang, Songchen Han[†]. “R2RNet: Low-Light Image Enhancement via Real-low to Real-normal Network”. *Journal of Visual Communication and Image Representation (JVCIR)*, 2023. [\[PDF\]](#) [\[GitHub\]](#) **(Best Paper Runner-Up for 2024)**
- [4]. **Hai Jiang**, Yutong Hao, Fengzhu Zou, Lin Fang, Songchen Han[†]. “Advanced RetinexNet: A Fully Convolutional Network for Low-light Image Enhancement”. *Signal Processing: Image Communication (SPIC)*, 2023. [\[PDF\]](#)
- [5]. **Hai Jiang**, Yang Ren, Yaqi Yu, Songchen Han[†]. “Combining Spatial and Frequency Information for Image Deblurring”. *IEEE Signal Processing Letters (SPL)*, 2022. [\[PDF\]](#)
- [6]. **Hai Jiang**, Yutong Hao, Fengzhu Zou, Lin Fang, Songchen Han[†]. “A Visual Navigation System for UAV Under Diverse Illumination Conditions”. *Applied Artificial Intelligence (UAAI)*, 2021. [\[PDF\]](#)

PUBLICATIONS-CONFERENCE

•*: Equal contributions, †: Corresponding author

- [1]. **Hai Jiang**, Ao Luo, Xiaohong Liu, Songchen Han, Shuaicheng Liu[†]. “LightenDiffusion: Unsupervised Low-Light Image Enhancement with Latent-Retinex Diffusion Models”. *European Conference on Computer Vision (ECCV)*, 2024. [\[PDF\]](#) [\[GitHub\]](#)
- [2]. **Hai Jiang***, Haipeng Li*, Songchen Han[†], Haoqiang Fan, Bing Zeng, Shuaicheng Liu[†]. “Supervised Homography Learning with Realistic Dataset Generation”. *International Conference on Computer Vision (ICCV)*, 2023. [\[PDF\]](#) [\[GitHub\]](#)
- [3]. **Hai Jiang***, Haipeng Li*, Yuhang Lu, Songchen Han[†], Shuaicheng Liu[†]. “Semi-supervised Deep Large-Baseline Homography Estimation with Progressive Equivalence Constraint”. *Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI)*, 2023. [\[PDF\]](#) [\[GitHub\]](#)

ACADEMIC SERVICES

•**Conference Reviewer:** IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), European Conference on Computer Vision (**ECCV**), ACM SIGGRAPH Annual Conference (**SIGGRAPH**), AAAI Conference on Artificial Intelligence (**AAAI**), ACM International Conference on Multimedia (**ACM MM**), IEEE International Conference on Multimedia and Expo (**ICME**), IEEE/RSJ International Conference on Intelligent Robots and Systems (**IROS**).

•**Journal Reviewer:** IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), International Journal of Computer Vision (**IJCV**), IEEE Transactions on Image Processing (**TIP**), IEEE Transactions on Circuits and Systems for Video Technology (**TCSVT**), IEEE Signal Processing Letters (**SPL**), Computer Vision and Image Understanding (**CVIU**), Computers & Graphics (**CG**).

TECHNICAL SKILLS

Languages: CET-4, CET-6

Skills: Office, Python, Matlab

ACHIEVEMENTS

- Distinguished** Master's Thesis of Sichuan University *Jun. 2023*
- Third Prize** Undergraduate Graduation Design (Thesis) of Sichuan University *Jun. 2020*