



## Hai Jiang

Sichuan University  
School of Aeronautics and Astronautics

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🔗 Google Scholar

🔗 GitHub Profile

### EDUCATION

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- **Ph.D. - Sichuan University** 2023-present  
*Aeronautical and Astronautical Science and Technology* Supervisor: Prof. Songchen Han
- **Master - Sichuan University** 2020-2023  
*Aeronautical and Astronautical Science and Technology* Supervisor: Prof. Songchen Han
- **Bachelor - Sichuan University** 2016-2020  
*Aircraft Control and Information Engineering* Supervisor: Prof. Songchen Han

### PROFESSIONAL EXPERIENCES

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- **Megvii Technology** Jan. 2022-present  
*Research Inter, Megvii Research Chengdu* Supervisor: Prof. Shuaicheng Liu  
– Research area: Homograph Estimation and Low-light Image Enhancement

### SELECTED PUBLICATIONS

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- **Low-Light Image Enhancement with Wavelet-based Diffusion Models.**  
**Hai Jiang**, Ao Luo, Songchen Han, Haoqiang Fan, Shuaicheng Liu.  
ACM Transactions on Graphics (**ToG, Proceedings of SIGGRAPH Asia**), 2023. [\[PDF\]](#) [\[GitHub\]](#)
- **Supervised Homography Learning with Realistic Dataset Generation**  
**Hai Jiang**, Haipeng Li, Songchen Han, Haoqiang Fan, Bing Zeng, Shuaicheng Liu.  
International Conference on Computer Vision (**ICCV**), 2023. [\[PDF\]](#) [\[GitHub\]](#)
- **Semi-supervised Deep Large-Baseline Homography Estimation with Progressive Equivalence Constraint**  
**Hai Jiang**, Haipeng Li, Yuhang Lu, Songchen Han, Shuaicheng Liu.  
Thirty-Seventh AAAI Conference on Artificial Intelligence (**AAAI**), 2023. [\[PDF\]](#) [\[GitHub\]](#)
- **Unsupervised Global and Local Homography Estimation with Motion Basis Learning**  
Shuaicheng Liu, Yuhang Lu, **Hai Jiang**, Nianjin Ye, Chuang Wang, Bing Zeng.  
IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2023. [\[PDF\]](#) [\[GitHub\]](#)
- **R2RNet: Low-Light Image Enhancement via Real-low to Real-normal Network**  
**Hai Jiang**, Xuan Zhu, Yang Ren, Yutong Hao, Fengzhu Zou, Lin Fang, Songchen Han.  
Journal of Visual Communication and Image Representation (**JVCIR**), 2023. [\[PDF\]](#) [\[GitHub\]](#)
- **Advanced RetinexNet: A Fully Convolutional Network for Low-Light Image Enhancement**  
**Hai Jiang**, Yutong Hao, Fengzhu Zou, Fang Lin, Songchen Han.  
Signal Processing: Image Communication (**SPIC**), 2023. [\[PDF\]](#) [\[GitHub\]](#)

### ACADEMIC SERVICES

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- **Journal Reivewer:**  
International Journal of Computer Vision (IJCV)  
IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)  
Computer Vision and Image Understanding (CVIU)

### TECHNICAL SKILLS

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**Languages:** CET-4/6, GEE-81  
**Skills:** Office, Python, Matlab

### ACHIEVEMENTS

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