

刘鑫

✉ liuxin2018@zju.edu.cn

🎓 Google Scholar

🌐 github.com/LiuX2018

🌐 liux2018.github.io



研究兴趣

计算光学; 点扩散函数工程; 计算成像; 自适应光学; 超分辨显微成像; 光束整形。

教育经历

- 2018/09 – 2023/12 📌 浙江大学，杭州
Ph.D. 光学工程
导师：郝翔研究员 & 刘旭教授
- 2022/12 – 2023/04 📌 香港大学，香港特别行政区
访问研究生电子和电气工程系
Advisor: Prof. E.Y. Peng & Prof. E.Y. Lam
- 2014/09 – 2018/06 📌 华南理工大学，广州
B.E. 光电信息科学与工程

Present Academic Position

- 2018/09 – Present 📌 **State Key Laboratory of Extreme Photonics and Instrumentation**
Hangzhou, China
Research Assistant

Representative Publications

Awards

- 2022 📌 **Individual scholarship for innovation and entrepreneurship**, Zhejiang University.
📌 **Junshi Chen scholarship**, Zhejiang University.
📌 **Outstanding graduate student**, Zhejiang University.
📌 **Merit graduate student**, Zhejiang University.
- 2021 📌 **Junshi Chen scholarship**, Zhejiang University.
📌 **Outstanding graduate student**, Zhejiang University.
📌 **Merit graduate student**, Zhejiang University.
📌 **Outstanding graduate student cadres**, Zhejiang University.
- 2020 📌 **Junshi Chen scholarship**, Zhejiang University.

Awards (continued)

- Outstanding graduate student cadres, Zhejiang University.
- 2019 ■ Outstanding graduate student, Zhejiang University.
- 2015 ■ Third-class award on 3rd Physics Tournament of SCUT, South China University of Technology.

Reviewer Service

- Optics Express, Journal of Microscopy, and Optics Communications

Mentorship

- 2023 ■ “Deep Stereo Optics Imaging for High Fidelity Depth Estimation”, HKU MSc Yuhui Liu, HKU EEE MSc Thesis Dissertation Project
- 2022 ■ “Full Vectorial Manipulation of Tightly Focused Optical Field”, Haiwei Wang, Zhejiang University, Undergraduate Thesis
- “Numerical Simulation of Vectorial Field Based on Vectorial Diffraction Theory”, Yunpeng Wang, Changchun University of Science and Technology, Undergraduate Thesis


发明专利

- 郝翔, 刘鑫, 李林沛, 彭伟帆, 光学成像系统设计与图像信息重建联合优化方法及应用, 公开(公告)号: CN114494476A。
- 郝翔, 刘鑫, 匡翠方, 刘旭, 一种点扩散函数重建方法, 公开(公告)号: CN110133849B。
- 郝翔, 刘鑫, 涂世杰, 刘旭, 一种用于共聚焦荧光显微镜的二维快速光束扫描模块, 公开(公告)号: CN109491065A。
- 刘旭, 刘鑫, 郝翔, 匡翠方, 李海峰, 一种用于成像和光刻系统的共路光束调制装置, 公开(公告)号: CN110568650B。
- 郝翔, 刘鑫, 韩于冰, 匡翠方, 刘旭, 一种相位型空间光调制器的标定方法及装置, 公开(公告)号: CN112697401A。
- 郝翔, 刘鑫, 匡翠方, 刘旭, 李海峰, 一种超衍射极限焦斑阵列生成装置, 公开(公告)号: CN110568731B。
- 郝翔, 涂世杰, 刘鑫, 刘旭, 一种具有自动对准功能的多色超分辨显微镜系统, 公开(公告)号: CN109358030B。

Skills

- Languages ■ Good reading, writing and speaking competencies in English and Mandarin Chinese.

Skills (continued)

Coding  MATLAB, Python, LabVIEW, and \LaTeX .