MING SUN

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https://mingsun-kaust.github.io

EDUCATION

King Abdullah University of Science and Technology (KAUST) — Saudi Arabia
Ph.D. in Electrical and Computer Engineering — 2022 - 2027 *(expected)*
- Advisor: Prof. Wolfgang Heidrich
- Research area: Computational microscopy

Harbin Institute of Technology (HIT) — China
M.Eng. in Instrument Science and Technology — 2020 - 2022
- Rank: 1/133.
- Advisor: Prof. Zhen-gang Lu
- Research area: Defect detection

Harbin Institute of Technology (HIT) — China
B.Eng. in Opto-Electronics Information Science and Engineering — 2016 - 2020
- Rank: 1/45.
- Advisor: Prof. Zhengjun Liu
- Research area: Fourier ptychography

RESEARCH INTERESTS

Computational imaging; Microscopy system; End-to-End learning; Phase retrieval

JOURNAL PUBLICATIONS

1. **M. Sun**, K. Wang, Y. N. Mishra, S. Qiu, W. Heidrich. Space-time Fourier ptychography for in vivo quantitative phase imaging. *Optica*, 2024. [Link]

2. H. Qin, **M. Sun**, Z. Lu, J. Tan. Metallic mesh defect detection based on low-rank decomposition via Schatten capped p norm. *IEEE Trans. Instrum. Meas.*, 2024. [Link]

3. Y. Li, X. Wen, **M. Sun**, X. Zhou, Y. Ji, G. Huang, K. Zhou, S. Liu, Z. Liu. Spectrum sampling optimization for quantitative phase imaging based on Kramers-Kronig relations. *Opt. Lett.*, 2022. [Link]

4. Y. Li, C. Shen, J. Tan, X. Wen, **M. Sun**, G. Huang, S. Liu, Z. Liu. Fast quantitative phase imaging based on Kramers-Kronig relations in space domain. *Opt. Express*, 2021. [Link]

5. **M. Sun**, Y. Li, G. Huang, J. Wang, J. Tan, S. Liu, B. Gao, Z. Liu. Self-adapting search algorithm for Fourier ptychographic microscopy. *Opt. Quantum Electron.*, 2021. [Link]

CONFERENCE PUBLICATIONS

1. **M. Sun**, K. Wang, Y. N. Mishra, S. Qiu, W. Heidrich. Dynamic Fourier ptychography via space-time optimization . *Computational Optical Sensing and Imaging (COSI)* , 2024. [Link]

AWARDS AND HONORS

- **Best poster shortlist & Spotlight poster (ICCP 2024)** — 2024.07
- **KAUST PhD Program Fellowship** — 2022.08
- **Kwang-Hua Scholarship** — 2021.11
- **First-class Academic Scholarship** — 2020.09, 2021.09
- **Excellent Graduate of Harbin Institute of Technology** — 2020.06
- **National Scholarship** — 2018.11
- **First-class People's Scholarship** — 2018.05, 2018.11, 2020.06

SKILLS

Programming: Matlab, Python, Pytorch, C.
Computer design software: Adobe Illustrator, Blender, 3ds Max, Solidworks.

ACADEMIC
SERVICES

Reviewers for: *Optics Express*
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