

EDUCATION	King Abdullah University of Science and Technology (KAUST)	Saudi Arabia
	<i>Ph.D. in Electrical and Computer Engineering</i>	2022 - 2027 (<i>expected</i>)
	<ul style="list-style-type: none"> • Advisor: Prof. Wolfgang Heidrich • Research area: Computational microscopy 	
	Harbin Institute of Technology (HIT)	China
	<i>M.Eng. in Instrument Science and Technology</i>	2020 - 2022
	<ul style="list-style-type: none"> • Rank: 1/133. • Advisor: Prof. Zhen-gang Lu • Research area: Defect detection 	
	Harbin Institute of Technology (HIT)	China
	<i>B.Eng. in Opto-Electronics Information Science and Engineering</i>	2016 - 2020
	<ul style="list-style-type: none"> • 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	<ol style="list-style-type: none"> 1. M. Sun, K. Wang, Y. N. Mishra, S. Qiu, W. Heidrich. Space-time Fourier Ptychography for in vivo Quantitative Phase Imaging. <i>Optica</i>, 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. <i>IEEE Trans. Instrum. Meas.</i>, 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. <i>Opt. Lett.</i>, 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. <i>Opt. Express</i>, 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. <i>Opt. Quantum Electron.</i>, 2021. [Link] 	
CONFERENCE PUBLICATIONS	<ol style="list-style-type: none"> 1. M. Sun, K. Wang, Y. N. Mishra, S. Qiu, W. Heidrich. Space-time Fourier Ptychography for in vivo Quantitative Phase Imaging. <i>Computational Optical Sensing and Imaging (COSI)</i>, 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: <i>Optics Express</i> ...