

黄敬桓  

JINGHUAN HUANG (ICONS CLICKABLE)

 2002-11  Male  South China Normal University

 13662280283  @ j.h.huang@m.scnu.edu.cn



## EDUCATION

**OPTOELECTRONIC INFORMATION SCIENCE AND ENGINEERING** **BACHELOR** **2021.09 - 2025.07**

• **Certification:** CET-4, CET-6

## PAPERS

### • THE FIRST AUTHOR, JCR Q1

➤ Jinghuan Huang, Yanghong Li, Yejin Liu,..., and Dongmei Deng, "Partially coherent Pearcey–Gauss source with hyperbolic sine correlation of the spatial spectrum," **Opt. Lett.** 49, 2857-2860 (2024)

### • THE SECOND AUTHOR, JCR Q1

➤ Yanghong Li, Jinghuan Huang,..., and Dongmei Deng, "Coherence shaping for optical vortices: a coherence shift keying scheme enabled by deep learning for optical communication," **Opt. Lett.** 50, 2390-2393 (2025)

### • THE THIRD AUTHOR, JCR Q3

➤ Zehong Liang, Hechong Chen, Jinghuan Huang,..., and Dongmei Deng, "Virtual sources for structured partially coherent light fields," **J. Opt. Soc. Am. A** 40, 1392-1396 (2023)

### • THE FIFTH AUTHOR, JCR Q1

➤ Yingjun Luo, ZeHong Liang, ZhenWu Mo, Jingyi Shi, JingHuan Huang,..., and DongMei Deng, "(3+1)-dimensional Pearcey–Gaussian wave packet with arbitrary velocity driven by flying focus," **Opt. Lett.** 49, 290-293 (2024)

### • THE SIXTH AUTHOR, JCR Q1

➤ Yongzheng Yang, You Wu, Xinqing Zheng, Jingyi Shi, Yingjun Luo, Jinghuan Huang, and Dongmei Deng, "Particle manipulation with twisted circle Pearcey vortex beams," **Opt. Lett.** 48, 3535-3538 (2023)

## PROJECT EXPERIENCE AND COMPETITION AWARDS

• **NATIONAL FIRST PRIZE, IN THE PHYSICAL FINAL OF THE "HAMAMATSU CUP" OF THE 11TH NATIONAL UNIVERSITY STUDENTS' OPT-SCI-TECH COMPETITION** **2023.05-2023.08**

- Responsible for the optical theory of the project, focusing on theoretical derivation and proof of feasibility, and proficiency in data modeling with parameter fitting using MATLAB.
- Conducted preliminary optical system simulations and evaluations using ZEMAX in a simple way, and created basic system component models through SolidWorks.
- Responsible for related artwork and clerical work, using Photoshop, Adobe Illustrator, LATEX, etc. to create and layout project posters and project brochures, as well as writing and reviewing related documents.

• **NATIONAL PROJECTS, IN THE "PROGRAM OF INNOVATION AND ENTREPRENEURSHIP FOR UNDER-GRADUATES"** **2022.12-2024.05**

- Responsible for the theory and experiments of the project, and was able to use Mathematica for theoretical derivation, optical simulation using MATLAB, mastering the basic laboratory skills of building optical paths, and experimental verification of simulation results.
- Responsible for the production of PPTs, the writing of the declaration and presentation for the project, and the overall review of the documents.
- Authored a first-author publication in "Opt. Lett." (accepted for the final audit). Concluded with an "Excellent" rating and selected for the 17th National College Student Innovation Conference.

• **GUANGDONG PROVINCIAL FIRST PRIZE, OF THE 17TH "CHALLENGE CUP" NATIONAL UNDER-GRADUATE CURRICULAR ACADEMIC SCIENCE AND TECHNOLOGY WORKS** **2022.11-2023.06**

- Participate in the theoretical and experimental work of the project, using MATLAB to simulate the relevant optical theory and help set up the relevant experimental system.
- Responsible for the relevant artwork and clerical work.
- Co-authored a third-author publication in "J. Opt. Soc. Am. A".

• **HEAD OF THE UNDERGRADUATE GROUP IN THE DIRECTION OF "STRUCTURED COHERENCE AND PHOTOREFRACTIVE CRYSTALS"** **2023.05-2024.05**

- Responsible for conducting research and practical activities related to optics and physics, convening and chairing group meetings as the primary organizer.
- Introductory and specialized training for new members: paper searching, paper reproduction guidance, paper writing, fundamentals of optics, propagator solution of various linear transport equations with corresponding algorithmic construction, and the skills of building experimental optical paths, etc.
- Assisting the supervisor in following up on the academic progress of the members and guiding active communication with the supervisor, participating in and following up on scientific research during the period, and subsequently co-authoring a second-author publication in "Opt. Lett." (State: Accepted and Posted).

• **OTHER HONERS AND AWARDS** **2021.09-PRESENT**

- Grand Prize, University Innovation Award (University, 2025)
- First Prize, University Innovation Award (University, 2024)
- Second Class Comprehensive Scholarship (University, 2024)
- Academic Excellence Scholarship (University, 2023)
- "Liu Songhao" Academician Award for Scientific Innovation (School, 2024)
- First Prize, Guangdong Provincial "Alliance Cup" English Writing Competition - Preliminary Round (University, 2023)