

Tianshun Zhang

Curriculum Vitae

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Education

- **Soochow University** Sept.2019-Jun.2022
- Degree: Master of Engineering
 - Major: Optical Engineering
 - Grade Point Average: 3.7/4.0 Average Mark: 88/100
 - Core courses: Information Optics and Holographic Technology, Advanced Optics, Engineering Mathematics and Numerical Calculation, Optical Frontier, Photoelectric Sensor Detection Technology.
 - Supervisor: Jianhong Wu, Professor, jhwu@suda.edu.cn
 - Dissertation: Research on amount of 3D information in CGH and its evaluation method (in Chinese)
 - Area of expertise: Computer-generated hologram (CGH), 3D display, Assessment of 3D image quality, Amount of 3D information
 - Current scientific interests: CGH, 3D display, Computational imaging, Image processing
- **Soochow University** Sept.2015-Jun.2019
- Degree: Bachelor of Science
 - Major: Optoelectronics Information Science and Engineering
 - Grade Point Average: 3.7/4.0 Average Mark: 90/100
 - Core courses: Optics, Digital Image Processing, Engineering Optics, Holographic Technique, Principles of Laser, Technology of Optoelectronics, Optical Information Process, Mathematical Physics Methods, Electromagnetic Field Theory, etc.

Publications

1. **Tianshun Zhang**, Yun Chen, Minjie Hua, Mingxin Zhou, Wenlong Zou and Jianhong Wu, "Assessment of 3D reconstructed image quality for computer-generated holographic 3D display", Proc. SPIE 12169, Eighth Symposium on Novel Photoelectronic Detection Technology and Applications, 12169B5 (27 March 2022). DOI: [10.1117/12.2626597](https://doi.org/10.1117/12.2626597)
2. Ke Li[#], **Tianshun Zhang**[#] and Yaohui Zhan, et al., "Enhancement of radiative cooling effect by bioinspired hollow-core triangular structures", JPCS, (Nov. 4, 2021). DOI: [10.1088/1742-6596/2185/1/012007](https://doi.org/10.1088/1742-6596/2185/1/012007)
3. Yun Chen, **Tianshun Zhang**, Minjie Hua, Mingxin Zhou and Jianhong Wu,

"Convolutional Neural Network for Phase-Only Hologram Optimization Based on the Point Source Method With the Holographic Viewing-Window", in IEEE Photonics Journal, vol. 14, no. 4, pp. 1-7, (Aug. 2022), Art no. 5243307, DOI: [10.1109/JPHOT.2022.3194966](https://doi.org/10.1109/JPHOT.2022.3194966)

4. Yun Chen, Minjie Hua, **Tianshun Zhang** and Jianhong Wu, et al., "Holographic near-eye display based on complex amplitude modulation with band-limited zone plates", Opt. Express 29, 22749-22760 (2021). DOI: [10.1364/oe.431032](https://doi.org/10.1364/oe.431032)

5. Minjie Hua, Yun Chen, **Tianshun Zhang** and Jianhong Wu, et al., "A speckle noise suppression method in phase-only holographic display based on an improved Gerchberg–Saxton algorithm", Optik, (Nov.27,2021). DOI: [10.1016/j.ijleo.2021.168407](https://doi.org/10.1016/j.ijleo.2021.168407)

Teaching experience

- **TA**, Soochow University
Undergraduate courses
General Physics Experiment (Sept.2019-May.2022)
 - The experiment of measuring the average wavelength of sodium light by Michelson interferometer
 - The experiment of measuring the radius of curvature of plano-convex lens with Newton's rings.

Research experience

- 2019.9-2022.6 - Research Assistant. Professor Jianhong Wu, Soochow University
Research on amount of 3D information in CGH and its evaluation method
- 2016.9-2019.6 - Participate in the tutorial system. Associate Professor Yaohui Zhan, Soochow University
Research direction: Design and simulation of passive cooling film

Standard Test

- IELTS: 6.5
Listening: 6 / Reading: 7.5 / Writing: 6 / Speaking: 6

Skills

- MATLAB, Mathematica, C language, MAYA, COMSOL, AutoCAD, Adobe...
- Hobbies: Swimming, Playing badminton, Reading, Cycling...

Self-assessment

Team player, friendly, positive and self-driven.