

Xinzhe Zhang

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EDUCATION

- | | |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------|
| • M.S. Nankai University , Tianjin, China
<i>Optics</i> , GPA:93.46/100, adviser: <i>Jing Chen</i> | Sept. 2023 - Jun. 2025
(expected) |
| • B.S. Nankai University , Tianjin, China
<i>Physics</i> , GPA:3.67/4 | Sept. 2019 - Jun. 2023 |

RESEARCH INTERESTS

- Nanophotonics
- Nonlinear optics
- PT symmetric optics

PUBLICATIONS

- [1] **ZHANG XZ**, LUO RZ, CHEN J. Revisit the Poynting vector in PT-symmetric coupled waveguides [J]. OPTICS EXPRESS, 2022, 30(21): 38753-63.[DOI] [PDF]
- [2] WU LT, **ZHANG XZ**, LUO RZ, et al. Non-Hermitian guided modes and exceptional points using loss-free negative-index materials [J]. OPTICS EXPRESS, 2023, 31(9): 14109-18.[DOI] [PDF]
- [3] **ZHANG XZ**, WU LT, LUO RZ, et al. Higher-order exceptional points using lossfree negative-index materials [J]. PHYSICA SCRIPTA, 2023, 98(9): 095511.[DOI] [PDF]
- [4] WU LT, **ZHANG XZ**, GUO TJ, et al. Superluminality in parity-time symmetric Bragg gratings [J]. PHYSICA SCRIPTA, 2024, 99(8): 085544.[DOI] [PDF]
- [5] WU LT, **ZHANG XZ**, MING KANG, et al. Broken phase of parity-time symmetry enables efficient superluminal pulse transmission [J]. OPTICS EXPRESS (accepted)

SKILLS

- **Programming Languages:** MATLAB, Python(numpy, pandas), \LaTeX , HTML
- **Softwares:** COMSOL, Git

HONORS AND AWARDS

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------|
| • Scholarship of Public Interests and All-Round Capability
<i>Granted by Nankai University</i> | 2024 |
| • National Scholarship
<i>Top 1/130+, the highest scholarship for Chinese graduates granted by the Ministry of Education of China</i> | 2023 |
| • National Encouragement scholarship
<i>Granted by Nankai University</i> | 2022 |
| • National Encouragement scholarship
<i>Granted by Nankai University</i> | 2021 |

LANGUAGES

TOEFL: 95 (R: 26 | L: 23 | S: 23 | W: 23)
GRE: 330 (V: 161 | Q: 169)

REFERENCES

1. **Jing Chen**

Professor, Department of Physics, Nankai University
Email: jchen4@nankai.edu.cn | Phone: +86 13132161393
Relationship: Supervisor

2. **Zhenpeng Hu**

Professor, Department of Physics, Nankai University
Email: zphu@nankai.edu.cn | Phone: +86 15022625376
Relationship: undergraduate mentor, teacher

3. **Ming Kang**

Professor, College of Physics and Materials Science, Tianjin Normal University
Email: mingkang@mail.nankai.edu.cn | Phone: +86 15222899640
Relationship: Collaborator