

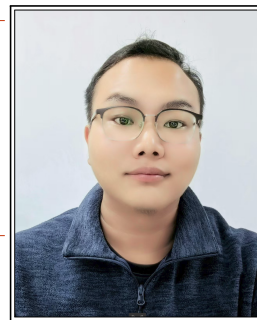
## 个人信息

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## 教育背景及工作经历

东方理工高等研究院, 宁波东方理工大学, 博士后 2023.09–2025.08

· 物理学院, 凝聚态理论, 合作导师: 周通副教授

兰州大学, 博士 2016.09–2023.06

· 物理学院, 理论物理, 导师: 黄亮教授

斯特拉斯堡大学, 联合培养博士 2020.12–2022.11

· IPCMS, 凝聚态理论, 导师: Rodolfo A. Jalabert教授

兰州大学, 本科 2012.09–2016.06

· 物理学院, 理论物理

## 奖项荣誉

- 入选欧洲博士学院 (Collège doctoral Européen) 的国际博士生项目 (PDI), 2021年
- 中国留学基金委奖学金 (CSC), 2020年
- 第五届全国统计物理大会优秀海报奖, 2019年
- 硕士生国家奖学金, 2016年

## 文章发表

- Richang Huang, Yongliang Hu, **X.-Z. Chen**, Peng Yu, Igor Zutic, Tong Zhou, “Towards Scalable Braiding: Topological Superconductivity Unlocked under Nearly Arbitrary Magnetic Field Directions in Planar Josephson Junctions”, arXiv.
- Sihui Wu, Jiahui Qian, Xunkai Duan, **X.-Z. Chen**, Zhou Cui, Jiayong Zhang, Chunlan Ma, and Tong Zhou, “Electrically switchable quantum anomalous and spin Hall states in two-dimensional honeycomb lattices with non-Dirac bands”, Phys. Rev. B 111, 235414 (2025).
- **X.-Z. Chen**, Guillaume Weick, Dietmar Weinmann, Rodolfo A. Jalabert, “Scanning gate microscopy in graphene nanostructures”, Phys. Rev. B 107, 085420 (2023).
- **X.-Z. Chen**, Zhen-Qi Chen, Liang Huang, and Ying-Cheng Lai, “Many-body spectral statistics of relativistic quantum billiard systems”, Phys. Rev. Research 5, 013050 (2023).
- Xiao-Liang Li, **X.-Z. Chen**, Chen-Rong Liu, and Liang Huang, “Quantization condition of scarring states in complex soft-wall quantum billiards”, Acta Phys. Sin., 69, 080506 (2020)
- Guan-Qun Zhang, **X.-Z. Chen**, Li Lin, Hai-Lin Peng, Zhong-Fan Liu, Liang Huang, Ning Kang, and Hong-Qi Xu, “Transport signatures of relativistic quantum scars in a graphene cavity”, Phys. Rev. B 101, 085404 (2020).
- Chen-Rong Liu, Pei Yu, **X.-Z. Chen**, Hong-Ya Xu, Liang Huang and Ying-Cheng Lai, “Enhancing von Neumann entropy by chaos in spin-orbit entanglement”, Chin. Phys. B 28, 10 (2019).
- Chen-Rong Liu, **X.-Z. Chen**, Hong-Ya Xu, Liang Huang, and Ying-Cheng Lai, “Effect of chaos on two-dimensional spin transport”, Phys. Rev. B 98, 115305 (2018).

## 会议展示

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### 报告

- Many-body spectral statistics of relativistic quantum billiards systems  
DPG Meeting 2022, Regensburg, Germany, 09/2022.

### 海报

- Transport signatures of scars in graphene dots at low magnetic field  
GDR 2426, Aussois, France, 12/2021.
- Many-body spectral statistics of relativistic quantum billiard systems  
The 5th National Statistical Physics Conference (SPCSC), Hefei, China, 07/2019.
- Transport signatures of relativistic quantum scars in a graphene cavity  
International Workshop on Experimental and Theoretical Developments on Complex Quantum Systems, Lanzhou, China, 07/2018.

## 项目

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- Spectral statistics of a class of pseudo-integrable quantum billiards, CNY 630,000, No. 12175090, NSFC, 2021. 参与
- Study of spin anomalous effects in Dirac billiards, CNY 580,000, No. 11775101, NSFC, 2017. 参与