Yuan Wang

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Contact

- **Website**: ywang.org
- **GitHub**: github.com/ywang-phy
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Interests

Quantum Theory of Light-Matter Interactions, Parallel Computing, and Machine Learning.

Education

- Sept 2018 - July 2023: PhD in Physics, University of Southampton
- Sept 2017 - July 2018: Master's Degree (M2 Nanoscience), University of Ferrara
- Sept 2016 - July 2017: Master's Degree (M1 General Physics), Paris-Saclay University
- Sept 2012 - July 2016: Bachelor's Degree in Physics, Anhui Normal University

Internship

- Feb 2018 - July 2018: Quantum Theory and Technology, University of Southampton
- Apr 2017 - July 2017: Quantum Optics, Pierre and Marie Curie University

Languages

- Chinese (Native)
- English (Fluent)

Skills

- **Programming**: C++, CUDA, MATLAB, Python
- **Simulation**: COMSOL Multiphysics
- **Editing**: LaTex, Microsoft Office

Publications

[5] K. Sawicki, D. Dovzhenko, Y. Wang, H. Sigurðsson and P. G. Lagoudakis, *Occupancy-driven Zeeman suppression and inversion in trapped polariton condensates*, arXiv:2308.05351 (2023)

[4] Y. Wang, *Tailored reservoir of exciton-polariton condensates*, University of Southampton (2023)

[3] Y. Wang, P. G. Lagoudakis, and H. Sigurdsson, *Enhanced coupling between ballistic exciton-polariton condensates through tailored pumping*, Physical Review B **106**, 245304 (2022)

[2] Y. Wang, H. Sigurdsson, J. D. Töpfer, and P. G. Lagoudakis, *Reservoir optics with exciton-polariton condensates*, Physical Review B **104**, 235306 (2021)

[1] Y. Wang and S. De Liberato, *Theoretical proposals to measure resonator-induced modifications of the electronic ground state in doped quantum wells*, Physical Review A **104**, 023109 (2021)