

# Yuan Wang

ORCID: 0000-0002-0688-3276

## Contact

---

- **Website:** ywang.org
- **GitHub:** github.com/ywang-phy
- **LinkedIn:** linkedin.com/in/ywang-phy
- **Email:** yuan.wang@soton.ac.uk, yuan.wang.phy@gmail.com

## Interests

---

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

## Education

---

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

## Internship

---

- Feb 2018 - July 2018: Quantum Theory and Technology, University of Southampton, United Kingdom
- Apr 2017 - July 2017: Quantum Optics, Sorbonne University - Pierre and Marie Curie Campus, France

## Languages

---

- Chinese (Native)
- English (Fluent)

## Skills

---

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

## Publications

---

- [6] Surya T. Sathujoda, Yuan Wang, Kanishk Gandhi, *Exciton-Polariton Condensates: A Fourier Neural Operator Approach*, arXiv:2309.15593 (2023)
- [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)