

Qiuyu (Louis) Lu

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Education

University of Wollongong, School of Physics Master of Science in Medical Radiation Physics, WAM: 92.25	Wollongong, Australia Jul 2024 – Present
Ludwig Maximilian University of Munich, Faculty of Physics Master's Program in Physics (withdrew)	Munich, Germany Oct 2020 – Mar 2021
Huazhong University of Science and Technology, School of Physics Bachelor of Science in Physics, GPA: 3.50/4.00 Bachelor Thesis: <i>Review on Relativistic Quantum Information</i>	Wuhan, China Sep 2016 – Jun 2020 Supervisor: Prof. Jianming Cai
Huazhong University of Science and Technology, School of Optoelectronic Information Major in Optoelectronic Information Engineering (transferred to Physics), GPA: 3.86/4.00	Wuhan, China Sep 2015 – Sep 2016

Experience

Image X Institute, University of Sydney Research project on deep-learning based lung tumour markerless tracking Supervisors: Prof. Paul Keall, Prof. Anatoly Rozenfeld, Dr. Chandrima Sengupta	Sydney, Australia Mar 2025 – Present
Jinshazhou Hospital of Guangzhou University of Chinese Medicine Radiotherapy shadowing	Guangzhou, China Jun 2024
Educational Institution Math and Physics Tutor <ul style="list-style-type: none">A-Level Math, Further Math, Physics; AP Precalculus, Calculus, PhysicsSTEP, MAT, PAT exam prepChinese Physics Olympiad coaching	Shenzhen, China Jan 2022 – Jan 2024
International Joint Laboratory on Quantum Sensing and Quantum Metrology Research Assistant <ul style="list-style-type: none">Quantum sensing and quantum metrology technologyQuantum dynamics in biophotonicsQuantum geometry measurement	Wuhan, China Undergraduate Oct 2018 – Jun 2020

Publications

- Min Yu, Pengcheng Yang, Musang Gong, Qingyun Cao, Qiuyu Lu, Haibin Liu, Shaoliang Zhang, Martin B. Plenio, Fedor Jelezko, Tomoki Ozawa, Nathan Goldman, Jianming Cai, *Experimental measurement of the quantum geometric tensor using coupled qubits in diamond*, National Science Review, Vol. 7, No. 2, 2020, pp. 254–260

Conferences

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| • MMND-ITRO 2025, Sydney | Feb 2025 |
| • American Physical Society March Meeting, Boston | Mar 2019 |
| • Many Body Entanglement & Topological Matter Winter School, SUSTech | Jan 2019 |
| • Chinese Physical Society Annual Meeting, Wuhan University | Dec 2017 |
| • National Symposium of Quantum Simulation, Shanxi University | Oct 2017 |

Awards & Honours

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| • Online–Germany Physics Tournament, Best Reviewer | Dec 2020 |
| • Paris-Sud Honors Lecture on Scientific Big Data | Mar 2018 |
| • MCM/ICM Honorable Mention | Feb 2018 |
| • ITPO Undergraduate Innovation Project, Tied 1st Place | Jan 2018 |
| • University Physics Competition, Silver Medal | Nov 2017 |
| • Outstanding Undergraduate Academic Performance | Oct 2017 |
| • National Scholarship | Oct 2017 |

Skills & Interests

- **Programming:** C/C++, Python, Fortran, R
- **Languages:** Mandarin (native), English (TOEFL iBT: 102), Japanese (conversational)
- **Software:** MATLAB, Mathematica, COMSOL, L^AT_EX, Blender
- **Interests:** Photography, classical music, coffee craft, Chinese calligraphy

