

# Qiuyu (Louis) Lu

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• Koolongbong Village, Wollongong, NSW 2500, Australia • ql946@uowmail.edu.au • (+61)0411810798 • Website

## Education

University of Wollongong, School of Physics Master of Science in medical radiation physics, WAM: 92.25	Wollongong, Australia 2024.7 – Present
Ludwig-Maximilian-Universität München, Fakultät für Physik Master program of physics(drop out)	Munich, Germany 2020.10 – 2021.3
Huazhong University of Science and Technology, School of Physics Bachelor of Science, major in physics, GPA: 3.50/4 Bachelor thesis: <i>Review on relativistic quantum information</i> Supervisor: Prof. Jianming Cai.	Wuhan, China 2016.9 – 2020.6
Huazhong University of Science and Technology, School of Optoelectronic Information Major in optoelectronic information(later transferred to physics), GPA: 3.86/4	Wuhan, China 2015.9 – 2016.9

## Experience

Image X Institute, University of Sydney Research project of deep-learning based lung tumour markerless tracking Supervisor: Prof. Paul Keall, Prof. Anatoly Rozenfeld, Dr. Chandrima Sengupta	Sydney, Australia 2025.3 - Present
Jinshazhou Hospital of Guangzhou University of Chinese Medicine Radiotherapy shadowing	Guangzhou, China 2024.6
Educational institution Math and physics tutor <ul style="list-style-type: none"><li>• Alevel Math, Alevel Physics; AP Precalculus, AP Calculus, AP Physics</li><li>• STEP, MAT, PAT</li><li>• Chinese Physics Olympiad</li></ul>	Shenzhen, China 2022.1 – 2024.1
International Joint Laboratory on Quantum Sensing and Quantum Metrology Undergraduate research assistant <ul style="list-style-type: none"><li>• Quantum sensing and quantum metrology technology</li><li>• Quantum dynamics in biophotonics</li><li>• Quantum geometry measurement</li></ul>	Wuhan, China 2018.10 - 2020.06

## Publications

- Min Yu, Pengcheng Yang, Musang Gong, Qingyun Cao, Qiuyu Lu, Haibin Liu, Shaoliang Zhang, Martin B Plenio, Fedor Jelezko, Tomoki Ozawa, Nathan GoldAman, Jianming Cai, *Experimental measurement of the quantum geometric tensor using coupled qubits in diamond*, National Science Review, vol 7, issue 2, 2020, pp. 254–260

## Meetings

- MMND-ITRO 2025, Sydney 2025.2
- American Physical Society March Meeting, Boston 2019.3
- Many body entanglement & topological matter school, SUSTech 2019.1
- Chinese Physical Society Annual Meeting, Wuhan University 2017.12
- National symposium of quantum simulation, Shanxi University 2017.10

## Awards & Honours

- Online-Germany Physics Tournament 2020, By20, Best Reviewer 2020.12
- Lecture on scientific big data, PARIS-SUD HONORS 2018.3
- MCM/ICM, Honorable Mention 2018.2
- ITPO for undergraduate Students, Tied 1st place 2018.1
- University Physics Competition, Silver medal 2017.11
- Outstanding undergraduates in terms of academic performance 2017.10
- National Scholarship 2017.10

## Skills & Interests

- **Programming:** C/C++, Python, Fortran, R
- **Language:** Mandarin(native speaker), English(TOEFL iBT: 102), Japanese(conversational)
- **Application:** MATLAB, Mathematica, COMSOL, L<sup>A</sup>T<sub>E</sub>X, Blender
- **Interests:** Photograph, Classical music, coffee craft, Chinese calligraphy

