

PERSONAL INFORMATION

Email : <xiaoyu.sun@lis-lab.fr>

Office : TPR2 05.22, 163 Av. de Luminy, 13009 Marseille

Nationality: Chinese

EDUCATION

- 12/2022 - **Doctorale** (UMR7020LIS Laboratoire d'Informatique et Systèmes, CANA).
Department of Mathématiques et Informatique de Marseille,
Aix-Marseille Université, FR.
- 10/2020 -10/2021 **Master of Science** (Quantum Fields and Fundamental Forces -Merit).
Department of Physics, Imperial College London, UK.
MSc dissertation title “*Topological Magnetic Monopoles and Electroweak Sphalerons*”. Dissertation supervisor: Prof. Arttu Rajantie.
- 09/2016 -06/2020 **Bachelor of Science** (Materials Physics -Class One Honours). Department of Physics
and Astronomy, the University of Sheffield, UK. Personal tutor: Prof. Thompson Lee.
- Bachelor of Engineering** (Materials Science and Engineering –Average Mark:
92.27/100). Department of Oversea Education, Nanjing Tech University, China.

TITLE OF THESIS

Near-Term Noisy Quantum Computing

THESIS SUPERVISORS

Giuseppe DI MOLFETTA <giuseppe.dimolfetta@lis-lab.fr>

Hachem KADRI <hachem.kadri@lis-lab.fr>

PUBLICATIONS

1. Sun, X., Roget, M., Di Molfetta, G., & Kadri, H. (2025). On Quantum Perceptron Learning via Quantum Search. [*arXiv preprint arXiv:2503.17308*](#).
2. Tian, J., Sun, X., Du, Y., Zhao, S., Liu, Q., Zhang, K., ... & Tao, D. (2023). Recent advances for quantum neural networks in generative learning. [*IEEE Transactions on Pattern Analysis and Machine Intelligence*, 45\(10\), 12321-12340](#).

INTERNSHIP & RESEARCH EXPERIENCE

10/2022- 06/2022	Interned at Yanqi Lake Beijing Institute of Mathematical Sciences and Applications (BIMSA) with Prof. Zhengwei Liu in quantum information.
06/2022- 12/2021	Interned at the quantum machine learning group at JD explore Academy , Beijing, China.

LANGUAGES

Chinese	Native language
English	IELTS test (year 2020): Listening: 7.0 Reading: 8.5 Writing: 6.0 Speaking: 6.0 Overall: 7.0
French	A2

PROGRAMMING SKILLS

Certificates	Jiangsu Computer Rank Exam Certificate (Jiangsu Province, China)- Grade I. National Computer Rank Exam Certificate (China)- Grade II.
Coding	C, python.