Xiaoyu SUN

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 team).
Department of Mathématiques et Informatique de Marseille, Aix Marseille Université, FR.

10/2020 -10/2021 **Mater 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.   Personal tutor: Prof. Arkady Tseytlin.

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

INTERNSHIP & RESEARCH EXPERIENCE

10/2022- 06/2022 Interned at **Yanqi Lake Beijing Institute of Mathematical Sciences and Applications (BIMSA)** with Prof. Zhengwei Liu, researching in the quantum information area.

06/2022- 12/2021	Interned at the **quantum group at JD explore Academy**, Beijing, China.

Interned at the **quantum group at JD explore Academy**, Beijing, China.
The JD Explore Academy is an institute led by Prof. Dacheng Tao. I worked in the quantum machine learning area, supervised by Yuxuan Du and Xingyao Wu.

- Published a survey with co-authors of "*Recent Advances for Quantum Neural Networks in Generative Learning*" (https://ieeexplore.ieee.org/abstract/document/10113742).
- Researched on adversarial attacks in quantum generative learning models.

10/2017- 11/2018   Participated Undergraduate Training Program for Innovation and Entrepreneurship of Jiangsu Province as the principal investigator, with the project *"Research on High Performance LED Based on Multi - Quantum Well Perovskite".*

09/2017   Studied at Nanomaterials Laboratory of Nanjing Tech University as a member.

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	A1

PROGRAMMING SKILLS

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