Xiaoyu SUN

PERSONAL INFORMATION



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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

Quotité de temps : 50

HDR

Grade: MCF

Hachem KADRI

hachem.kadri@lis-lab.fr Quotité de temps : 50

HDR

Grade: MCF

COMMITTEE MEMBERS OF THESIS

Benjamin AUDOUX

benjamin.audoux@univ-amu.fr Laboratoire: UMR 7373 - I2M

Alessia MILANI - référent - HDR - PR

alessia.milani@univ-amu.fr Laboratoire: UMR 7020 - LIS

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.

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 title "Research on High

Performance LED Based on Multi - Quantum Well Perovskite".

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

AWARDS & HONOURS

SCHOLARSHIPS

10/2019	The First-class Scholarship, Nanjing Tech University.
05/2019	The First-class Scholarship, Nanjing Tech University.
04/2019	Nian Xi Scholarship, Nanjing Tech University.
11/2018	The First-class Scholarship, Nanjing Tech University.
05/2018	Special Scholarship, Nanjing Tech University.
11/2017	Special Scholarship, Nanjing Tech University.
06/2017	Special Scholarship, Nanjing Tech University.

OTHER

<u>OTHERS</u>	
07/2020	Class One Honours, the University of Sheffield.
06/2020	Outstanding graduates, Nanjing Tech University.
12/2018	Merit Student, Nanjing Tech University.
12/2018	Outstanding Student Cadre, Nanjing Tech University.
05/ 2018	Second Prize for Band C in 2018 National English Competition for College Students.
12/2017	Merit Student, Nanjing Tech University.

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 level courses attended

PROGRAMMING SKILLS

Certificates Jiangsu Computer Rank Exam Certificate (Jiangsu Province, China)- Grade I.

National Computer Rank Exam Certificate (China)- Grade II.

Coding C, python.