

Changyuan LYU

Education

B.S candidate, **Physics** Sept. 2012 - July 2016 (Expecting)
Kuang Yaming Honors School, Nanjing University, China
• Major GPA: 92.82/100

Research Interests

Quantum Information, Quantum Optics, Condensed Matter

Publication

- **C. Lyu**, L. Yu, S. Wu. *Localization in Quantum Walks on a Honeycomb Network*. Phys. Rev. A **95**, 052305 (2015).
also on arXiv: 1509.03919

Academic Experiences

Undergraduate Research Training Programs

- Supervisor: Prof. Shengjun Wu Aug. 2014 - present
- Project: Properties of Quantum Walks on Different Lattices
 - Characteristics of quantum walks were investigated and strong localization on hexagonal lattices was rigorously discussed.
 - Innovative research methods were further applied to more models and helped find a mistake in previous literature, which was confirmed by authors after private communications.
 - The corresponding paper was published on PRA.
 - Project: Multi-walker Quantum Walks
 - studying wave functions for quantum walks with multiple particles and irregular position spaces.
 - constructing modified models with Weak Measurements

Academic Involvements

- Supervisor: Prof. Guojun Jin Jan. 2014 - present
Theme: Condensed Matter Theories
- took part in weekly group meetings and participated in discussions
 - learned research frontiers, as well as the newest concepts and breakthroughs on condensed matter.

Short-term Exchanges and Visitings

- Summer Workshop by the Faculty of Engineering July 2015
The Chinese University of Hong Kong
Visting to Duke University Aug. 2015
Kuang Yaming Honors School

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Awards & Honors

- Meritorious Winner Apr. 2014
Mathematical Contest in Modeling, COMAP
Zheng Gang Scholarship
Nanjing University, 2015
People's Scholarship
Nanjing University, 2013
the CMB Scholarship
China Merchants Bank, 2014
the Scholarship for Outstanding Students
Kuang Yaming Honors School, 2013,14,15

Skills

Basic HTML, CSS, Objective-C, Git
Proficient \LaTeX , Mathematica, C++,
OS X & Linux Shell

Standardized Tests

- TOEFL(iBT): 95, R27+L26+S20+W22
- GRE
 - General: V149+Q170+AW3.5
 - Subject-Physics: 990 (94%)

Excurricular Activities

- Technical Leader of Department Youth League
July 2013 - June 2014
Social Practice: Investigation on Bottled Water
July 2013
Tutor of a high school student
Feb.-June 2014