

Changyuan Lyu | Curriculum Vitae

Education

B.S candidate, **Physics** Sept. 2012 - July 2016 (Expecting)
Kuang Yaming Honors School, Nanjing University, China

- GPA: 4.541/5.0
- Ranking: 9/81

Publication

Changyuan Lyu, Luyan Yu, Shengjun Wu. *Localization in Quantum Walks on a Honeycomb Network*. arXiv: [1509.03919](#)
Accepted by **Physical Review A**

Academic Experiences

Undergraduate Research Training Programs

Supervisor: Prof. Shengjun Wu current, from Aug. 2014

- Project: **Characteristics of Quantum Walks on Different Lattices**
 - Properties of quantum walks were investigated and strong localization in Grover walks on hexagonal lattices were rigorously discussed. Numerical simulations supported analytical calculations.
 - Innovative research methods were further applied to more models and helped find a mistake in previous literature, which was confirmed by authors via private communication.
 - The corresponding paper has been accepted by PRA. »
- Project: **Multi-walker Quantum Walks with Weak Measurements**
 - We try studying wave functions for quantum walks with multiple particles and irregular position spaces.
 - Weak measurements may be utilized to extract information without largely impacting wave functions.

Academic Involvements

Supervisor: Prof. Guojun Jin current, from Jan. 2014
Theme: **Condensed Matter Theories**

- I take part in weekly group meetings and participate in discussions actively, learning research frontiers, as well as the newest concepts and breakthroughs in condensed matter.

Short-term Exchanges and Visitings

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

 May 30, 1994
 22 Hankou Rd., Nanjing, China
 +86 15850570751
 changyuan.lv@gmail.com
 live:changyuan.lv
 http://changyuan.me

Awards

Meritorious Winner Apr. 2014
Mathematical Contest in Modeling, *COMAP*

Selected Honors

People's Scholarship
Nanjing University, 2013
the CMB Scholarship
China Merchants Bank, 2014
the Scholarship for Outstanding Students
Kuang Yaming Honors School, 2013&14

Computer Skills

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

Standardized Tests

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

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