

# Changyuan Lyu | Curriculum Vitae

## 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

- **Changyuan Lyu**, Luyan Yu, Shengjun Wu. *Localization in Quantum Walks on a Honeycomb Network*. Phys. Rev. A **95**, 052305 (2015).  
also on arXiv: [1509.03919](https://arxiv.org/abs/1509.03919)

## Academic Experiences

### Undergraduate Research Training Programs

Supervisor: Prof. Shengjun Wu Aug. 2014 - present

- Project: **Characteristics of Quantum Walks on Different Lattices**
  - Properties 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 with Weak Measurements**
  - 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 early July 2015  
*The Chinese University of Hong Kong*

Visting to Duke University late Aug. 2015  
*Kuang Yaming Honors School*

 May 30, 1994  
 22 Hankou Rd. Nanjing 210093, China  
 +86 15850570751  
 changyuan.lv@gmail.com  
 live:changyuan.lv  
 http://changyuan.me

## 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

## 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:

## 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