

Changyuan Lyu

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🌐 <http://changyuan.me/>

EDUCATION

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

RESEARCH INTERESTS

Quantum Information, Quantum Optics, Condensed Matter, Computational Physics

PUBLICATION

- **Changyuan Lyu**, Luyan Yu, Shengjun Wu. *Localization in Quantum Walks on a Honeycomb Network*. Phys. Rev. A **95**, 052305 (2015). arXiv: 1509.03919

EXPERIENCES

Undergraduate Research Training Programs

Supervisor: Prof. Shengjun Wu

supported by the National Natural Science Foundation of China under Grants No. 11475084

- Project: Properties of Quantum Walks on Different Lattices Sept. 2014 - Oct. 2015
 - Characteristics of quantum walks were investigated and strong localization on hexagonal lattices was analytically discussed.
 - Improved 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 Sept. 2015 - present
 - 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

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

AWARDS & HONORS

Meritorious Winner in Mathematical Contest in Modeling
Outstanding Student

COMAP, Apr. 2014
Nanjing University, 2015

Zheng Gang Scholarship
the CMB Scholarship
People's Scholarship
the Scholarship for Outstanding Students

Nanjing University, 2015
China Merchants Bank, 2014
Nanjing University, 2013
Kuang Yaming Honors School, 2013,14,15

TECHNICAL STRENGTHS

Programming Languages	C++, Mathematica, Objective-C, HTML, CSS
Tools	L ^A T _E X, Git, OS X & Linux Shell

EXCURRICULAR ACTIVITIES

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|---|-----------------------|
| • Technical Leader of School Youth League | July 2013 - June 2014 |
| – offered supports for several school activities | |
| – gave instructions to junior team members | |
| • Social Practice: Investigation on Bottled Water | July 2013 |
| • Tutor of a high school student | Feb.-June 2014 |

STANDARDIZED TESTS

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|-----------------------------------|---------------|
| • GRE | |
| – Physics: 990 (94%) | Oct. 24, 2015 |
| – General: V149+Q170+AW3.5 | Oct. 17, 2015 |
| • TOEFL(iBT): 95, R27+L26+S20+W22 | Mar. 14, 2015 |