

Roger(Xiuzhe) Luo

No.96, Jinzhai Road, Baohe District – Hefei, Anhui Province – P.R. China
☎ +86-18119600100 • ✉ rogerluo@mail.ustc.edu.cn • 🌐 rogerluo.cc
Github:@Roger-luo

Education

University of Science and Technology of China

Bachelor

Bachelor in Physics/Computer Science (double degree)

Hefei

2013–2017

Publications

Yongjian Han Chuanfeng Li Guangcan Guo Xiuzhe Luo, Zhiyuan Wei. Observing nonclassical paths by measuring bohmian velocities in multi-slit interferometer with electron. *arXiv preprint quant-ph/1610.00102*, 2016.

Experience

Research.....

Research Assistant

Plasma Physics

Simulations and Experimental design.

Projects:

- Run-away electrons simulation in Tokmak;
- Plasma torch driven by micro-wave

Prof. Hong Qin

2014–2015

Research Assistant

Quantum Physics

Simulations and Experimental design.

Projects:

- Observing Nonclassical Paths by Measuring Bohmian Velocities in Multi-Slit Interferometer with Electron;
- Cooling-assist adiabatic quantum computation

Prof. Chuanfeng Li and Yongjian Han

2015–2017

Course Projects.....

Electricity and Magnetism

Simulation for Lightning by Monte Carlo method

Prof. Bangjiao Ye

2014

Equations of Mathematical Physics

Discussion on the relation between SDE and PDE

Prof. Benjin Xuan

2015

Experiment of College Physics

Optical true random number generator

Unsupervised

2015

Open-Source Activities.....

Volunteer

Active member

Chinese Julia Language Community

2015–present

Volunteer
Main developer of QuCmp.jl

JuliaQuantum
2015–present

Club Activities.....

President
Initiator and First President

USTC UAV club
2015–2016

Member

USTC Linux User Group
2014–2016

Computer skills

Know well: C/C++, Julia, Python

Can use: CUDA C/C++, Mathematica, MATLAB, LaTeX, html/CSS, javascript, Java

Development Env: Linux

Research Interests

- Quantum Computing/Quantum Information Theory
- Tensor Network
- Boltzmann Machine and Ising Model

Awards

- Honorable Prize in COMAP's Mathematical Contest in Modeling (MCM) 2016
- CUPT(China Undergraduate Physics Tournament), 1st prize in USTC, 2015
gave up quota of nationwide finals due to schedule, my work participated the final tournament and won the grand prize, top 5 in China
- CUPT(China Undergraduate Physics Tournament), 3rd prize in USTC, 2014
- 3rd prize of freshman scholarship in USTC, 2013
- First Prize in Chinese Mathematical Olympiad (in province), 2012