

Roger(Xiuzhe) Luo

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Education

University of Science and Technology of China

Bachelor

Bachelor in Physics/Computer Science (double degree)

Hefei

2013–2017

Experience

Research.....

Research Assistant

Plasma Physics

Simulations and Experimental design.

Projects:

- Simulated run-away electrons in Tokmak;
- Designed a plasma torch with cooperator

Prof. Hong Qin

2014–2015

Research Assistant

Quantum Physics

Simulations and Experimental design.

Projects:

- Found observable quantity for non-classical path;
- Simulated cooling-assist adiabatic quantum computation, part of Code became the simulator AdiaRoll.jl

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

Contributions:

- Organizer in preparation and establishment;
- Host for the first meet-up in east-campus, USTC
- Host for JuliaQuantum member's talk in USTC
- Wrote website and translated documents for Chinese Julia Community
- Preparation for 2016 user meet-up in Shenzhen sponsored by Haplox

Chinese Julia Language Community

2015–present

Volunteer

Main developer of QuCmp.jl

JuliaQuantum

2015–present

Contributions:

- Basic quantum circuit simulations
- Adiabatic Quantum Computing Simulations
- re-implementation for CHP.c in Julia

Club Activities.....

President

Initiator and First President

USTC UAV club

2015–2017

Member

USTC Linux User Group

2014–2017

Computer skills

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

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

Development Env: Linux

Research Interests

- Quantum or Quantum-inspired Machine Learning
- Quantum Information Theory
- Simulation in Quantum Computation Implementation

Awards

- 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

Miscellaneous

Sketch: 3 years trained in indoor still life

Accordian: certificate in 4th level as amateur in 2010

Chinese Kung-fu: 4 years trained in Bagua Zhang