Roger(Xiuzhe) Luo

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Education

University of Science and Technology of China <div align="right">**Hefei**</div>
Bachelor <div align="right">*2013–2017*</div>
Bachelor in Physics/Computer Science (double degree)

Experience

Research

Research Assistant <div align="right">**Prof. Hong Qin**</div>
Plasma Physics <div align="right">*2014–2015*</div>
Simulations and Experimental design.
Projects:
○ Simulated run-away electrons in Tokmak;
○ Plasma torch driven by micro-wave

Research Assistant <div align="right">**Prof. Chuanfeng Li and Yongjian Han**</div>
Quantum Physics <div align="right">*2015–2017*</div>
Simulations and Experimental design.
Projects:
○ Observable quantity for non-classical path (arxiv:1610.00102);
○ Cooling-assist adiabatic quantum computation (poster on QIP2017)

Course Projects

Electricity and Magnetism <div align="right">**Prof. Bangjiao Ye**</div>
Simulation for Lightening by Monte Carlo method <div align="right">*2014*</div>

Equations of Mathematical Physics <div align="right">**Prof. Benjin Xuan**</div>
Discussion on the relation between SDE and PDE <div align="right">*2015*</div>

Experiment of College Physics <div align="right">**Unsupervised**</div>
Optical true random number generator <div align="right">*2015*</div>

Open-Source Activities

Volunteer <div align="right">**Chinese Julia Language Community**</div>
Active member <div align="right">*2015–present*</div>
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

Volunteer <div align="right">**JuliaQuantum**</div>
Main developer of QuCmp.jl <div align="right">*2015–present*</div>

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

Club Activities

President   **USTC UAV club**
Initiator and First President   *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

- 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

Accordion: certificate in 4th level as amateur in 2010

Chinese Kung-fu: 4 years trained in Bagua Zhang