

Jinguo Liu (刘金国)

POSTDOC FELLOW IN HARVARD UNIVERSITY

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“朝正确的方向攀爬，而不是去摘下垂的果实。”

Education

Nanjing Institute of Technology

B.S. IN SOFTWARE ENGINEERING

Nanjing

2008–2012

Nanjing University

PH.D. THEORETICAL PHYSICS

Nanjing

2012–2017

Skills

Programming Julia, Python, Fortran

Language Chinese, English

Algorithms Tensor Networks, Differentiable Programming

Experience

Institute of Physics (IOP), Chinese Academy of Sciences

POSTDOCT IN

Beijing

2017–2019

Honors & Awards

2017 **First prize (out of 8000 teams, 100,000 RMB award)**, ZTE Fantastic Algorithm Challenge

Xi An, China

2007 **First prize**, Physics Olympiad

JiangSu Province,
China

2016 **Academic Excellence Scholarship**, Nanjing University

NanJing

Presentation

March Meeting

PRESENTER

Gave a talk "Differential Quantum Circuits and Generative Modeling"

Boston

2019

Juliacon

PRESENTER

Gave a talk "Differential Programming Tensor Networks"

Baltimore

2019

Deep Learning and Quantum Programming: A Spring School

LECTURER

Gave lectures on quantum computing.

Dongguan

2019

Selected Publications

Computing properties of independent sets by generic programming tensor networks

FIRST AUTHOR

Unpublished

2022

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Tropical tensor network for ground states of spin glasses

FIRST AUTHOR

Phys. Rev. Lett. 126, 090506

2021

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Yao.jl: Extensible, Efficient Framework for Quantum Algorithm Design

SECOND AUTHOR

Quantum

2020

- One of the main authors of the most popular quantum circuit simulator in Julia language.