Yinghao Huang

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EDUCATION

Imperial College London Oct 2018 - Jun 2022

Physics with Theoretical Physics Master Lonodn

Guangdong Country Garden School Sep 2016 - Jun 2019

International Baccalaureate Diploma Programme(IBDP) Senior High School Guangzhou

IBDP(40), IGCSE(6A*1B)

PROFESSIONAL EXPERIENCE

Biomap Research Centre Jun 2021 - Sep 2021

Artificial Intelligence Researcher Beijing

- Use Pytorch to construct MSA transformer-liked deep learning network.
- Optimize the transformer to predict the structure of H3-loop of antibodies.

RESEARCH EXPERIENCE

Electron Flux in Geosynchronous Orbit Jun 2017 - Aug 2017

Research Assistant School of Earth and Space Sciences, Peking University Beijing

- Use Python to analysis the data of the electron flux in Geosynchronous orbit.
- Introduced a new weighting parameter improved the accuracy of predicting of electron flux.
- Supervisor: Prof. Qiugang Zong

Physics Random Number Generator May 2019 - Jun 2019

Researcher Imperial College London London

- Using quantum tunnelling as the entropy source to build a physical random number generating circuit.
- The generating efficiency is 160kbit/s.

The Potential of the Computation of Artificial Spin Ice Material Feb 2021 - Apr 2021

Researcher Imperial College London London

- Using Flatspin ASI Simulator to simulate artificial spin ice system.
- Verified the computational potential of the artificial spin ice material.

Elusive Nature of Quantum Hidden non-Markovianity Nov 2021

Researcher Imperial College London London

- Using process tensor formalism to specific the non-Markovianity of the hidden non-Markovian systems.
- Discuss the elusive nature of the hidden non-Markovian systems.

Dynamics of Coupled Laser Oct 2021

Researcher Imperial College London London

- Using Matlab to solve the delay coupled Lang-Kobayashi equation.
- Discuss the chaotic dynamics of the delay coupled systems.

MISCELLANEOUS

- **Skills:** Java, Pytorch, Python, c/c++, Matlab
- **Certifications:** British Physics Olympiad (BPHO): Top Gold (Top 2%)
- **Languages:** English (IELTS 7.5), Chinese(First Language)
- **Interests:** Business, Philosophy, Art and History