

Chenghao Zhang

General Information

Name: Chenghao Zhang

Gender: Male

Birthplace: Wenzhou, Zhejiang Province, China

Date of Birth: 06/26/1997

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EDUCATION

Peking University	Beijing, China
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BS in Dept. of Physics, School of Physics	Sep.2015- Jul.2019
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- GPA 3.68/4 (rank top 25% in the department)

University of Illinois at Urbana Champaign	Urbana, IL, USA
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Ph.D. in Dept. of Physics, College of Engineering	Aug. 2019 –
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Advisor: Prof. Martin Gruebele

- GPA 3.92/4.00

RESEARCH EXPERIENCE

Peking University (Department of Physics) Beijing, China
IBM Thomas J. Watson Research Center Yorktown Heights, NY USA
Advisor: Prof. Yuhai Tu & Prof. Qi Ouyang Aug. 2018 – Jul. 2019
Project: Investigating energy constraint of accurate spatial orientation in biosystem

University of Illinois at Urbana Champaign (Dept. of Physics) Urbana, IL, USA
• Advisor: Prof. Martin Gruebele and Prof. Edwin Sibert Jul. 2020 - Jan. 2021
Project: Large scale simulation of Quantum energy flow in molecules (intramolecular vibrational energy redistribution)

• Advisor: Prof. Martin Gruebele and Prof. Peter Wolynes Sept. 2020 -
Project: Quantum scrambling and out of time ordered correlation function (OTOC) in molecules.

SELECTED AWARDS AND HONORS

- Cyrus Tang Scholarship Peking University 2015-2017
- Award for Academic Excellent Peking University 2016-2017
- Excellent Graduate Peking University 2019
- University Fellowship University of Illinois at Urbana Champaign 2021
- IBM-Zerner Graduate Student Award 61st Sanibel Symposium 2022
- Grad Travel Award University of Illinois at Urbana Champaign 2022

PUBLICATION

- 1 Chenghao Zhang, Edwin L. Sibert III, *and* Martin Gruebele, "A phase diagram for energy flow-limited reactivity", J. Chem. Phys. 154, 104301 (2021)
2. C. Zhang, P. G. Wolynes, and M. Gruebele, *Quantum Information Scrambling in Molecules*,

Phys. Rev. A **105**, 033322 (2022).

TALK

- 61st Sanibel Symposium poster presentation
- APS March Meeting 2022 Oral presentation

Link : <https://meetings.aps.org/Meeting/MAR22/Session/Y01.1>