

Chenghao Zhang

General Information

Name: Chenghao Zhang

Gender: Male

Birthplace: Wenzhou, Zhejiang, China

Date of Birth: 06/26/1997

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EDUCATION

Peking University

Beijing, China

BS in Dept. of Physics, School of Physics

Sep.2015- Jul.2019

Advisor: Prof. Yuhai Tu & Prof. Qi Ouyang

- GPA 3.68/4

University of Illinois at Urbana Champaign

Urbana, IL, USA

Ph.D. in Dept. of Physics, College of Engineering

Aug. 2019 –

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 between molecular fragments

- Project: Quantum Information scrambling and out of time ordered correlation functions (OTOCs) in molecular systems.**

- 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, 2022
- IBM-Zerner Graduate Student Award 61st Sanibel Symposium 2022
- Grad Travel Award University of Illinois at Urbana Champaign 2022

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).

- 61st Sanibel Symposium poster presentation
- APS March Meeting 2022 Oral presentation
Link: <https://meetings.aps.org/Meeting/MAR22/Session/Y01.1>
- 76th International Symposium on Molecular Spectroscopy (ISMS)
MH10: A phase diagram for energy flow limited reactivity
TL10: Quantum Information scrambling in Molecules
- Condensed Matter Journal Club, UIUC Physics
(Bounds on chaos from Eigenstate thermalization hypothesis)