Jiming Zheng

Place of birth: Xiangyang, Hubei, China ⋄ *Date of birth:* 09-11-2001 ⋄ *Gender:* Male

E-mail: jiming@unc.edu ⋄ *Website:* https://jiming.site

Higher Education

Graduate student in Physical Chemistry   *August 2023 - Current*
University of North Carolina at Chapel Hill
Supervisor: Zhiyue Lu

Visiting student in Physics (CTBP)   *August 2022 - December 2022*
Rice University
Supervisor: Evelyn Tang

B.S. in Chemical Physics   *August 2019 - July 2023*
University of Science and Technology of China
Supervisor: Zhonghuai Hou

Preprints

* denotes co-first author

1. "Stochastic Distinguishability of Markovian Trajectories"
   Asawari Pagare*, Zhongmin Zhang*, **Jiming Zheng***, Zhiyue Lu
   arXiv: 2401.16544 (2024)

Refereed Papers

* denotes co-first author

3. "Designing autonomous Maxwell's demon via stochastic resetting"
   Ruicheng Bao*, Zhiyu Cao*, **Jiming Zheng***, Zhonghuai Hou
   Phys. Rev. Research **5**, 043066 (2023)

2. "Combining Infrared Spectroscopy Experiment with Quantum Chemical Calculations to Study Hydrogen Bond in Several Aliphatic Alcohol and CCl_4 Solutions"
   Yu Liu, **Jiming Zheng**, Nayan Zongchen, Hong Wu, Wanqun Hu
   University Chemistry **38**(8): 216-224 (2023)

1. "Fast Functionalization with High Performance in the Autonomous Information Engine"
   Zhiyu Cao*, Ruicheng Bao*, **Jiming Zheng**, Zhonghuai Hou
   J. Phys. Chem. Lett. **14**, 66 (2022)

Presentations

1. Contributed talk, "Cabirate time with arbitrary Markov process"
   125th Statistical Mechanics Conference
   Rutgers University, New Brunswick, USA, December 17 - 19, 2023

Honors and Awards

5. Level-A USTC Fellowship for Undergraduate Students
   USTC, Hefei, China, May, 2023

4. Weirui Cup Chemistry Innovation Competition - First Prize
   Wuhan, China, July, 2022

3. Lu Jiaxi Talent Program Scholarship
   USTC, Hefei, China, November, 2020-2021

2. Outstanding student scholarships
   USTC, Hefei, China, October, 2020-2022

1. Outstanding Freshman Scholarship - Gold Award
   USTC, Hefei, China, October, 2019

Technical Skills

Programming Language	Python, Mathematica
Tool/Software	LaTeX, Adobe Illustrator, Affinity Designer 2, Inkscape, Blender, Gaussian, Amber

Language Proficiencies

Chinese	Native speaker
English	Fluent