

Kecai Xuan

Curriculum Vitae



Maryland
xuankecai@gmail.com
<https://github.com/Bessgendre>
<https://bessgendre.github.io>

EDUCATION

- SEP.2023 – PRESENT **Graduate Student in Chemistry**
Department of Chemistry and Biochemistry
University of Maryland - College Park
- JUL.2023 – DEC.2023 **Visiting Scholar**
Department of Chemistry
University of Wisconsin - Madison
- SEP.2020 – JUL.2024 **B.S. in Chemical Physics**
Department of Chemical Physics
University of Science and Technology of China

RESEARCH

Optimization of Protein Molecular Force Field Parameters Based on NMR Spectroscopy Data and Deep Learning Tools

Time: Dec. 2023 - May. 2024

Supervisor: Prof. Zhonghuai Hou, SCMS, USTC.

Undergraduate Thesis

Ab Initio Raman Spectra Calculation

Time: Jul. 2023 - Dec. 2023

Supervisor: Prof. Yang Yang, TCI, UW-Madison

Mid Report: Basic Theory of Raman Spectroscopy

Final Report: Codes for Static Raman Calculation

Physicochemical Properties of Bio-Phase Transitions

Time: Nov. 2023 - Apr. 2023

Supervisor: Prof. Zhonghuai Hou, SCMS, USTC.

Final Report: Liquid-Liquid Phase Separation

LITERATURE

Book: Manual of Chem-Flyers 2024

A guidebook jointly compiled by students of USTC going abroad, focusing on the reasons and experiences of oversea studies. Printed Version at **library of USTC**, Digital Version at **ustcflyer.com**.

Article: The Analysis of Univ of Sci & Tech of China

Critical thoughts towards the rat race at our school, giving faith to Truth and Liberty. Available at **USTC Forum**.

Article: The Faults of Zhiyong

Reported the Org.Chem lecturer's misconducts to the Forum of Students and Teachers in classical Chinese. Available at **icourse.club**.

SELECTED AWARDS

- 2024 **USTC Fellowship, A-Level**
University of Science and Technology of China
- 2023 **Chen Linyi Scholarship**
Mr. Chen Linyi
- 2022 **Outstanding student scholarship**
University of Science and Technology of China
- 2022 **Excellent Student Scholarship of GIES**
Guangzhou Institute of Energy Conversion, CAS
- 2021 **Huang Minglong Scholarship of SIOC**
Shanghai Institute of Organic Chemistry, CAS
- 2021 **Scholarship of Lu Jiaxi Talent Program**
University of Science and Technology of China
- 2021 **2nd Prize, Chinese Mathematics Competition**
Chinese Mathematical Society

SKILLS

LANGUAGE	English, Chinese
PROGRAMMING	Python, Mathematica
SOFTWARE	L ^A T _E X, LAMMPS, Adobe Photoshop
INSTRUMENT	Chinese Flute, Piano