# Tianbo Tse

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#### **Education**

**University of Kentucky** 

Exchange Student/Graduate Student

2018-2020/2022-2024

**Beijing University of Technology** 

Banchelor of Engineering in Environmental Engineering

2021

### Research Experience

University of Kentucky

Advisor: Dr. Rachel Schendel

Recycling of Bourbon Spent Grains

**Department of Animal & Food Sciences** 

Aug. 2022–Now

Peking University

Advisor: Dr. Zhi-Xiang Yu

College of Chemistry and Molecular Engineering

Mechanistic Research on Specific Reactions

Oct. 2021-Mar. 2022

- O Mechanism of an ODI [5+2] reaction and a specific Lu [3+2] reaction
- O Participated in two graduate-level courses: Theoretical Organic Chemistry & Quantum Chemistry

Chinese Academy of Agricultural Sciences

Advisor: Dr. Yuquan Xu

**Biotechnology Research Institute** 

Combinatorial Biosynthesis of Indolediterpene

Apr. 2021-Oct. 2021

- Construction of plasmids for microbial engineering
- Natural product separation and identification

Beijing University of Technology.

Advisor: Dr. Zhirong Sun

Faculty of Environment and Life

Dec. 2020-Jun. 2021

- Diuron Catalytic Degradation
- Predicted degradation pathways and major intermediate products with GC-MS and kinetics
- O Estimated the practical potential of the catalyst on diuron removal from wastewater

## **Graduate-Level Coursework Highlight**

- O Chemistry: Synthetic Organic/Reaction Mechanism/Crystallography/Inorganic/Biochem
- ${\tt O\ Physics:} Stat\ Mech/GR/QM/E\&M/Mechanics/Math\ Methods/Comp\ Phys/Astrophys$

#### Qualifications

- Distilling, Wine and Brewing Program Certificate (University of Kentucky, 2020)
- O Clair L. Hicks Food Science Scholarship (Community Foundation of Louisville, 2023)

### Meetings

- The 10th Beijing Kein Molecular Dynamics and GROMACS Workshop, Beijing Kein Research Center for Natural Sciences, Beijing, China, December 11th-14th, 2021
- The 16th Beijing Kein Quantum Chemistry Workshop, Beijing Kein Research Center for Natural Sciences, Beijing, China, October 3rd-7th, 2021
- The 4th Annual James B. Beam Institute Industry Conference, University of Kentucky, Lexington, KY, USA, March 13th-15th, 2023
- USDA Project Director Meeting for Novel Foods and Innovative Manufacturing Technologies, UC Davis, Davis, CA, USA, June 5th-7th, 2023

### Wet & Dry Lab Skills