Tianbo Tse

■ 859-436-4048 • ■ Tianbo.Tse@uky.edu

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)
- Clair L. Hicks Food Science Scholarship (Community Foundation of Louisville, 2023)

Meetings

- o 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

Wet & Dry Lab Skills

 ${\tt O\ HPLC/NMR/PCR/Gaussian/ORCA/xTB/MOPAC/GROMACS/Multiwfn}$