

Ian Campbell

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(479) 715-9467

Madison, WI

EXPERIENCE

Research Assistant - University of Kansas

May 2022 – August 2022

Lawrence, KS

Used LAMMPS software to perform molecular dynamics simulations of urea and TMAO in water writing Python scripts to analyze and interpret structural, thermodynamic, and dynamical data. Accrued supporting data and presented at ACS National Conference 2023.

Research Assistant – Hendrix College

May 2021 – August 2021

Conway, AR

Cut and set samples of locomotor muscle of spinner dolphins ranging in maturity for long term storage. Used cryostat to cut 12nm slices and transfer to slides. Determined fiber-type profile using myosin ATPase and antibody staining.

Microbiology Lab - Hendrix College

August 2022 – December 2022

Conway, AR

Gathered environmental bacteria, isolated colonies, and performed maintenance while performing identification tests to discover species using microscopy, staining, and other identification methods.

EDUCATION

Hendrix College - B.A., Biochemistry and Computer Science

2019 – 2023 GPA:3.87

Conway, AR

Relevant Courses

- Microbiology (w/Lab)
- Advanced Biochemistry (w/Lab)
- Thermodynamics (w/Lab)
- Eukaryotic Cell Biology
- Artificial Intelligence
- Algorithms
- Organic Chemistry (w/Lab)

Awards

- Distinction in Biochemistry
- Robert C. Eslinger Computer Science Award
- Magna Cum Laude
- Dean's List (4.0 GPA), three semesters

Publication

- Borkowski AK et al. Direct calculation of temperature-dependent 2D-IR spectra: Urea in water. J Chem Phys. 2023;158(6):064507. doi: 10.1063/5.0135627. PMID: 36792517.

SKILLS

Lab Techniques

- Cell Culturing
- UV-Vis Spectroscopy
- GC-MS
- FT-IR
- Frozen Section Histology

General

- Lab Safety, Maintenance, and Cleaning
- Microsoft Office
- Strong Analytical Skills
- Quality Control
- Research and Problem Solving
- Programming (Python, SQL, Java...)
- Hazardous Materials Handling