

Adam Charles Oken

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Education

Bachelors of Arts, Whitman College-Walla Walla, WA

Fall 2013 – Spring 2017

Double major in Biochemistry, Biophysics, and Molecular Biology (BBMB) and Mathematics

Work Experience

Structural Biology NSF REU Participant, University of Oklahoma-Norman, OK **Summer, 2016**

- Employed techniques including plasmid cloning by PCR, restriction digests, agarose/SDS-page gel electrophoresis, kinetics via spectroscopy, western blotting, transformations, FPLC, affinity, size-exclusion, and ion exchange chromatography as well as many x-ray crystallography techniques to crystalize proteins
- Attempted to co-crystalize fumarase C from *E. coli* with its substrate and purify mammalian OSBP
- Worked directly with Dr. Paul Sims and collaborated with the Burgett Lab to complete research

Undergraduate Research Assistant, Whitman College-Walla Walla, WA **Fall 2016/Spring 2017**

- Finished the fumarase C protein crystallography study to a reasonable resolution
- Collected datasets with a diffractometer as well as applied techniques to induce better protein crystallization
- Worked directly with Dr. Doug Juers

Genetics Lab Assistant and Writing Fellow, Whitman College-Walla Walla, WA **Spring, 2017**

- Prepared stock solutions and gels for students
- Provided guidance during labs once a week
- Presented feedback and commentary to student written lab reports for genetics lab

Sea Kayak Guide/Naturalist for Sea Quest Kayaking-Friday Harbor, WA **Summer, 2015/16/17**

- Responsible for the safety and well-being for up to 10 guests on 1, 2, 3, 4, and 5-day expeditions
- Cooked breakfasts and dinners for guests on expeditions
- Providing natural history of the San Juan islands and all wildlife (notably, the Southern Resident Killer Whales)

Undergraduate Theses

BBMB thesis: A Structural Study of Fumarase C from *E. coli*

Spring 2017

Math thesis: An Introduction To and Applications of Neural Networks

Spring 2017

Relevant Course Work

Molecular Biology and Lab

Fall 2016

Biochemistry and Lab

Fall 2015

Organic chemistry of drug design

Spring 2016

Bio-inorganic chemistry

Spring 2017

Genetics

Fall 2015

Biophysics

Spring 2016

Extracurricular Activities

President/Budget Manager of Whitman College Whitewater Club

Fall 2015 – Spring 2017

Participated and was president of a group of experienced leaders who paddle the rivers of Washington and Oregon on the weekends, including leading beginning whitewater kayaking trips for other students.

Relevant Programing Experience

Matlab, R, Python, Lindo, Maple, Latex, COOT, QtMG, DS Visualizer, Microsoft programs

Other interests: All forms of water sports in small boats, tennis, crabbing, cooking, fishing, card games, riddles, trumpet, and having fun on the water.