

MICROBIOLOGY PHD STUDENT

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Education ____

University of Wisconsin-Madison

Madison, WI

PhD student in the Microbiology Doctoral Training Program

Aug. 2016-present

• Laboratory of Dr. Katherine McMahon, Department of Bacteriology

Fayetteville, AR

University of Arkansas

Aug. 2012-May 2016

 ${\tt Bachelor\ of\ Science\ in\ Biology\ with\ Statistics\ Minor,\ Cum\ Laude\ Honors}$

• GPA: 3.71/4.0

Research Experience _____

McMahon Lab, University of Wisconsin-Madison

Madison, WI

GRADUATE RESEARCH ASSISTANT

Jan. 2017 - present

• Graduate research assistant in the laboratory of Dr. Katherine McMahon investigating bacterial communities in freshwater ecosystems and engineered wastewater systems.

Lewis Lab, University of Arkansas

Fayetteville, AR

Undergraduate Research Assistnat

Aug.2013-Aug.2016

• Undergraduate research assistant in the laboratory of Dr. Jeffrey Lewis studying the natural variation of stress defense mechanisms in the budding yeast Saccharomyces cerevisiae.

Broach Lab, Penn State Hershey College of Medicine

Hershey, PA

Undergraduate Research Intern

May-Aug. 2014

• Intern in the Summer Undergraduate Research Internship Program in the laboratory of Dr. James Broach studying the interactions and movements of chromosomes during quiescence in the budding yeast Saccharomyces cerevisiae.

Presentations

- 6. McDaniel, E.A., Stuecker, T.N., Elkon, I.M., Gasch, A.P., Lewis, J.A. Natural Variation in Yeast Uncovers Novel Regulation of the Ena1p Sodium Pump. Southeastern Regional Yeast Meeting. Tuscaloosa, AL. Mar. 2016. Platform Talk.
- McDaniel, E.A., Stuecker, T.N., Elkon, I.M., Gasch, A.P., Lewis, J.A. Natural Variation in Yeast Uncovers Novel Regulation of the Ena1p
 Sodium Pump. Arkansas IDeA Network of Biomedical Research Excellence Meeting. Fayetteville, AR. Nov. 2015. Poster Presentation.
 McDaniel, E.A., Stuecker, T.N., Elkon, I.M., Gasch, A.P., Lewis, J.A. Natural Variation in Yeast Uncovers Novel Regulation of the Ena1p
- 4. Sodium Pump. 27th International Conference on Yeast Genetics and Molecular Biology. Levico Terme, Trentinto, Italy. Sept. 2015. **Poster Presentation.**
- McDaniel, E.A., Stuecker, T.N., Elkon, I.M., Gasch, A.P., Lewis, J.A. Natural Variation in Yeast Uncovers Novel Regulation of the Ena1p Sodium Pump. Southeastern Regional Yeast Meeting. Little Rock, AR. Mar. 2015. Platform Talk.
 - McDaniel, E.A., Stuecker, T.N., Elkon, I.M., Gasch, A.P., Lewis, J.A. Natural Variation in Yeast Uncovers Novel Regulation of the Ena1p
- 2. Sodium Pump. South Central Branch of the American Society for Microbiology Joint Meeting. Fayetteville, AR. Sept. 2014. **Poster Presentation.**
- McDaniel, E.A., Rutledge, M.T., Broach, J.R. Chromosome Interactions in Quiescent Yeast. Penn State Hershey Summer Undergraduate

 1. Research Internship Programs Symposium. Hershey, PA. Aug. 2014. Poster Presentation.

Honors & Awards

2016	Travel Award , Southeastern Regional Yeast Meeting, \$250	Tuscaloosa, AL
2016	Honors College Research Grant, University of Arkansas Honors College, \$1200	Fayetteville, AR
2015	Honors College Travel Grant, University of Arkansas Honors College, \$1200	Fayetteville, AR
2015	Travel Awaard, Southeastern Regional Yeast Meeting, \$250	Little Rock, AR
2015	Honors College Research Grant, University of Arkansas Honors College, \$2500	Fayetteville, AR
2014-201	5 University of Arkansas Academic Scholarship , University of Arkansas, \$2000	Fayetteville, AR
2014	2nd Place Poster Award, ASM South Central Branch Meeting	Fayetteville, AR
2013-201	4 University of Arkansas Academic Scholarship , University of Arkansas, \$1000	Fayetteville, AR
2012-201	6 University of Arkansas Symphony Orchestra Scholarship, University of Arkansas, \$1000 per year	Fayetteville, AR
2012-201	6 University of Arkansas New Arkansan Non-Resident Tuition Award, University of Arkansas, \$39,040	Fayetteville, AR

Teaching, Mentoring, & Service.

McMahon Lab Mentoring Madison, WI

GRADUATE STUDENT MENTOR FOR REUS AND UNDERGRADUATE INTERNS

2017-present

- Graduate Student mentor for summer REU and Undergraudate Interns performing routine fieldwork and independent research projects in the McMahon lab.
- Kaela Amundson: Characterization and Enrichment of External Electron Transfer Capable Microorganisms. Fall 2017-Spring 2018. Mentored Kaela through laboratory protocols, bioinformatic pipelines, graduate school applications, and a National Science Foundation Graduate Research Fellowship application.

Computational Biology, Ecology, & Evolution (ComBEE) Study Group

Madison, WI

CO-CHAIR

Jan. 2017-present

- Organize peer-led discussions on the R and Python languages.
- Facilitate monthly meetings in which a postdoc/faculty member gives a talk on their research.
- Lead ComBEE hosted workshops on computational tools (Git/Anvi'o)

ComBEE Git/Github Pages Workshop

Madison, WI

WORKSHOP LEADER

Sept. 2017

- · Prepared novel materials and taught version control with Git and making a personal website using Github Pages/Jekyll.
- · Led a walkthrough tutorial to a group of 10 scientists on making a personal website with Github Pages.

ComBEE Anvi'o Workshop Madison, WI

WORKSHOP ASSISTANT May 2017

- Assisted during a ComBEE hosted workshop on the Anvi'o software.
- · Guided participants through the interactive interface and metagenomic binning tutorials.
- Led an informal presentation and discussion on the theory of metagenomic binning.

BIOL 2323: General Genetics Fayetteville, AR

DRILL INSTRUCTOR

Sp. 2015

- Instructor and leader of biweekly review sessions for an undergraduate General Genetics course.
- Prepared biweekly overviews of lecture materials and exam study guides.

University of Arkansas Office of Admissions

Fayetteville, AR

STUDENT AMBASSADOR

Fa. 2013-2015

- · Volunteered 2 hours a week guiding tours of the University of Arkansas campus and housing options to prospective students.
- Wrote thank-you notest to the students and families that visited campus.

Professional Development

June 2017 Microbial Genomics and Metagenomics Workshop, FISABIO

Valencia, Spain

April 2017 Anvi'o Workshop, University of Chicago, Meren Lab

Chicago, IL

Jan. 2017 **Data Carpentry Workshop**, University Wisconsin-Madison

Madison, WI