

Michael J. Sieler Jr.

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Education:

Oregon State University -- Corvallis, OR

Major: Bioresource Research, option: biotechnology & bioinformatics
Minor: German, Chemistry
GPA: 3.83, Honor Roll: Fall 2017 - Summer 2019

Relevant Coursework:

- General Chemistry
- Organic Chemistry
- Physics
- Biochemistry
- Cell & Molecular Biology
- Genetics
- Microbial Genetics
- Statistics (R)
- Intro to Comp. Science (C++)
- Coding in Life Sciences (Python)
- Applied Bioinformatics (Python)
- Microbiome Bioinformatics (R)

Research Experience:

Dr. Thomas J. Sharpton -- Undergraduate Student Researcher -- Oregon State University, Department of Microbiology 11/2018 - Present

- Investigate zebrafish gut microbiome and its effects on behavior
- Develop methods for gnotobiotic study of zebrafish gut microbiome
- Developed Zebrafish 16S rRNA gut microbiome database

Dr. Taifo Mahmud -- Undergraduate Student Researcher -- Oregon State University, College of Pharmacy 10/2017 - 11/2018

- Assisted PhD students investigating novel antibiotics in streptomycetes
- Plasmid extraction, DNA purification, PCR, Gel Electrophoresis

Scientific Presentations

Defining the Interaction Between Development, Benzo[a]pyrene Exposure, and the Gut Microbiome in Zebrafish. CAS Student Showcase, Oregon State University (Poster) 10/2019

Defining the Interaction Between Development, Benzo[a]pyrene Exposure, and the Gut Microbiome in Zebrafish. Fish Microbiota Conference, University of Oregon (Poster) 09/2019

Publications

Keaton Stagaman, **Michael J. Sieler Jr.**, Lisa Truong, Robert L Tanguay, Thomas J. Sharpton. Investigation of Zebrafish gut microbiome's effect on developmental *In development.*

Volunteer Experience:

OSU SMILE High School Challenge -- Mentor -- Corvallis, Oregon	04/2018
• Supported students by encouraging their critical thinking and teamwork skills	
Friends of Trees -- Crew Leader -- Portland, Oregon	2015 - 2017
• Managed teams to plant trees in local neighborhoods	
Earthly Delights Farm -- Farm Intern -- Boise, Idaho	03 - 10/2013
• Planting, harvesting, delivering crops to CSA members	
Semilla Nueva -- Field Intern -- Quetzaltenango, Guatemala	04 - 08/2012
• Assisted agronomists with data collection in the field	
• Improved protocols for new, incoming interns	

Awards:

Oregon Museum of Science and Industry Science Communication Fellowship	2020
College of Agriculture Science Continuing Researcher Grant Recipient	2019 - 2020
E.R. Jackman Internship Support Scholarship	2018 - 2020
Matava Sustainable Agriculture and Baker Scholarship Recipient	2018 - 2019
DAAD Summer University Scholarship, Freiburg, Germany	09/2016
Goethe Institut, German C1 Language Certificate	06/2011

Languages:

German: Intermediate
Spanish: Beginner