

# Michael J. Sieler Jr.

962 NW Cypress Ave,  
Corvallis, OR 97330  
(208) 867-7109  
sielerjm@oregonstate.edu  
linkedin.com/in/mjsielerjr/

## 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)
- Writing Research Papers

## 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

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

- Assisted PhD students investigating novel antibiotics in streptomyces
- 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