

Michael Sieler

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WORK EXPERIENCE

Oregon State University

Sept. 2020 – Present

Graduate Student Researcher

Corvallis, OR

- Contribute to 8+ quantitative research projects by statistically analyzing 1000's of microbiome samples
 - [Communicate](#) research findings in 3 peer-reviewed papers, 4 talks & posters at international conferences
- Gain insights and advance research goals using statistical and computational pipelines using R and Python
- Demonstrate leadership by coordinating cross-laboratory scientific experiments with 10+ researchers

MJSieler Consulting

May 2022 – Present

Owner

Corvallis, OR

- Fulfill USDA grant deliverables to communicate scientific research by developing an [educational video game](#)

Oregon State University

Sept. 2020 – Present

Undergraduate Student Researcher

Corvallis, OR

- Develop novel methods to process 1000's of zebrafish embryos for gut microbiome experiments
- Assist Ph.D. students and post docs research projects by identifying 10+ putative antibiotic compounds

EDUCATION

Oregon State University

Expected June, 2025

Ph.D. Microbiology, minor Biological Data Sciences

Corvallis, OR

Oregon State University

June, 2020

B.Sc. Bioresource Research, options bioinformatics and genomics

Corvallis, OR

PROJECTS

[Virtual Fish](#) – Browser based educational video game communicate scientific research to students using C# (Unity)

[Spotify Genre Visualization](#) – Interactive R Shiny app to explore 10,000+ song features across 12+ genres

[Microbial Bioinformatics Hub](#) – Open-source site to share bioinformatic research knowledge, methods & tools

SKILLS

Programming: R, Python (OOP, Numpy, TensorFlow), C# (Unity), SQL, Git, Unix/Linux, command line tools, HTML, CSS, C++, LaTeX, Markdown

Analysis: hypothesis testing, multivariate linear regression, machine learning, model building and testing, big data query

Bioinformatics/Lab: 16S sequencing, metagenomics, zebrafish husbandry, PCR

Other: Microsoft Office Suite, Adobe Photoshop and Illustrator

Languages: German (C1), Spanish