**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](https://michaelsieler.com/en/latest/Publications/publications.html) 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](https://github.com/OSU-Edu-Games/Virtual-Fish)

**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](https://github.com/OSU-Edu-Games/Virtual-Fish) – Browser based educational video game communicate scientific research to students using C# (Unity)

[Spotify Genre Visualization](https://michael-sieler.shinyapps.io/Spotify_heatmap/) – Interactive R Shiny app to explore 10,000+ song features across 12+ genres

[Microbial Bioinformatics Hub](https://microbial-bioinformatics-hub.readthedocs.io/en/latest/index.html) – 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