Michael Sieler

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WORK EXPERIENCE

Oregon State University   **Sept. 2020 – Present**
Graduate Research Assistant   *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