

# Andrew Morris, PhD

andrewmorris@mailbox.org · [Personal Website](#) · [Github](#) · [LinkedIn](#)

## EDUCATION

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<b>PhD Biology</b> , (2022) <i>University of Oregon</i>	Eugene, OR
<b>MS Soil Science</b> , (2017) <i>The Pennsylvania State University</i>	State College, PA
<b>BS Plant Sciences</b> , (2014) <i>Cornell University</i>	Ithaca, NY

## RELEVANT EXPERIENCE

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<b>Researcher in Big Data and Precision Medicine</b> Postdoctoral Scholar, Centre for Precision Psychiatry, University of Oslo	Mar 2024 - Present Oslo, Norway
<ul style="list-style-type: none"><li>Tested models predicting age of diagnosis for cancer, dementia, and cardiovascular disease using genetic and clinical data from Norwegian public health registries and biobanks</li><li>Developed software packages to standardize risk prediction for multiple diseases across programming languages (R, Python, Matlab)</li><li>Implemented models using containerized software (Docker, Singularity) in a high-performance cloud computing environment</li><li>Organized the 2024 Bioinformatics Workshop Week in Oslo, Norway with 11 workshops, and over 100 participants</li></ul>	
<b>Researcher in Quantitative Genetics</b> Postdoctoral scholar, Institute of Ecology and Evolution, University of Oregon	Mar 2022 - Dec 2023 Eugene, OR, USA
<ul style="list-style-type: none"><li>Analyzed the heritability of microbiomes across humans and other hosts, published in <i>Nature Microbiology</i></li><li>Organized Symbiosis Theory Workshop with international collaborators in Eugene, OR, USA</li></ul>	
<b>Visiting Scholar</b> Department of Biotechnology and Food Science, NTNU	Sep 2022 Trondheim, Norway
<ul style="list-style-type: none"><li>Conducted sampling of water and zebrafish from aquaculture facilities for DNA extraction and sequencing of environmental and host-associated microbiome DNA</li></ul>	
<b>PhD Research Fellow</b> Institute of Ecology and Evolution, University of Oregon	Aug 2017 - Mar 2022 Eugene, OR, USA
<ul style="list-style-type: none"><li>Received multiple grants and awards including a \$3 million (USD) grant and a 5-year research fellowship from the U.S. National Science Foundation</li><li>Developed bioinformatic pipelines for the analysis of microbiome data in a cloud computing environment using bash, Python, R, and slurm.</li><li>Supervised prospective PhD students in lab work, data analysis, and communication</li><li>Instructor for courses in introductory biology, genetics, and scientific computing</li></ul>	
<b>MS Research Fellow</b> Department of Ecosystem Science and Management, Penn State University	Aug 2015 - Jul 2017 State College, PA, USA
<ul style="list-style-type: none"><li>Conducted field trials with industry partners at research stations and on farms to test strategies to reduce nutrient losses</li><li>Delivered data analysis results using linear mixed models and machine learning (random forests) in R that guided on-farm practices to balance profitability with environmental impacts</li><li>Presented results to diverse stakeholders including industry partners, farmers, and scientists</li></ul>	

## LANGUAGES

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**English:** Excellent skills, both written and spoken (mother tongue)

**Norwegian:** Basic understanding both written and oral. Have taken 3 months of classes at Alfaskolen at the A0-A2 level. Highly motivated to continue classes (starting B1 in the winter) and self-study.

## SKILLS & TOOLS

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### Languages and Tools

- Expert in data processing, modeling, and plotting using R
- Experienced with version control using git, Github.
- Bash, Unix, cloud computing systems (slurm)
- Basic proficiency in Python
- GNU make for workflow management

### Management & Communication

- Skilled in communicating both verbal and written to diverse stakeholders
- Comfortable leading project teams and organizing workshops
- Supervised multiple trainees and taught courses

### Selected Coursework

- Genome-Wide Association Studies
- Machine Learning for Image Analysis
- Strategies and Techniques for Analyzing Microbial Community Population Structures
- Advanced Biological Statistics I & II

## REFERENCES

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- Oleksandr Frei, University of Oslo
- Prof. Brendan Bohannon, University of Oregon, bohannon@uoregon.edu +1
- Prof. Jason Kaye, Penn State University, jpk12@psu.edu +1