

Andrew Morris, PhD

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EDUCATION

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

RELEVANT EXPERIENCE

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

LANGUAGES

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

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

- Oleksandr Frei, Supervisor, University of Oslo, oleksandr.frei@medisin.uio.no Tel: +47 417 94 331
- Prof. Brendan Bohannon, University of Oregon, bohannon@uoregon.edu Tel: +1 541 346 4883
- Prof. Jason Kaye, Penn State University, jpk12@psu.edu Tel: +1 814 863 1614