

Andrew Hayden Morris

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

EDUCATION

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

RELEVANT EXPERIENCE

Researcher in Big Data and Precision Medicine	Mar 2024 - Present
Postdoctoral Scholar, Centre for Precision Psychiatry, University of Oslo	Oslo, Norway

- Built data pipelines for processing genetic and clinical data from Norwegian health registries across thousands of subjects for integration into precision medicine platforms
- Developed software package for individualized risk prediction to automate testing and validation workflows
- Led collaborative data infrastructure projects integrating multiple patient registries, managing data contracts and quality standards
- Organized the 2024 Oslo Bioinformatics Workshop Week, coordinated technical workflows for over 100 participants

Researcher in Animal Microbiomes and Aquaculture Systems	Mar 2022 - Dec 2023
Postdoctoral scholar, Institute of Ecology and Evolution, University of Oregon	Eugene, OR, USA
Visiting scholar, Department of Biotechnology and Food Science, NTNU	Trondheim, Norway

- Built data pipelines to analyze the impact of environmental factors (antibiotic treatment, stocking density) on aquaculture facilities
- Conducted comparative analysis of recirculating aquaculture systems between Oregon and Norwegian facilities, established data collection protocols for water quality and fish health monitoring
- Managed and processed datasets from dozens of published reports on animal microbiomes, developed and conducted analyses, and presented findings in *Nature Microbiology*

PhD Research Fellow	Aug 2017 - Mar 2022
Institute of Ecology and Evolution, University of Oregon	Eugene, OR, USA

- Integrated datasets from dozens of sites across Brazil and Gabon on soil characteristics, biological data, and methane production with laboratory measurements for environmental monitoring
- Developed automated data processing workflows that transformed raw soil and gas measurements into actionable insights for climate research
- Created insights from data pipelines that contributed to securing \$3 million USD in funding from the U.S. National Science Foundation

MS Research Fellow	Aug 2015 - Jul 2017
Department of Ecosystem Science and Management, Penn State University	State College, PA, USA

- Collaborated with agricultural industry partners to design and implement data collection systems at research stations and commercial farms
- Built R-based analytics pipelines that processed farm data to optimize nutrient management strategies
- Delivered data-driven recommendations for farmers and agricultural stakeholders balancing profitability with environmental sustainability

LANGUAGES

English: Native speaker with excellent written and verbal communication

Norwegian: Completed formal A1 and A2 courses with structured textbook study through B1/B2. Daily practice in reading, writing, listening, and speaking.

TECHNICAL SKILLS

Data Engineering & Analytics

- **R** - Expert in data processing, statistical modeling, plotting and package development
- **Python** - Proficient in data processing, pipeline automation and package development
- **Git/Github** - Experienced with version control and collaborative development

Infrastructure & Tools

- **Cloud Computing** - Experienced with cloud platforms and distributed computing systems (Slurm, Tjenester for Sensitive Data)
- **Workflow management** - Intermediate proficiency in GNU Make and automated pipeline orchestration
- **Docker & Containerization** - Experience with containerized development environments
- **Unix/Bash** - Proficient in command-line tools and shell scripting for automation

Leadership & Communication

- Proven ability to translate complex technical concepts for both technical and non-technical stakeholders
- Experience leading cross-functional project teams and managing international collaborations
- Skilled in workshop organization and technical presentation to diverse audiences
- Supervised multiple trainees and taught courses at university level