

Andrew Hayden Morris

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EDUCATION

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| 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

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

- Modeled age-of-onset for cancer using genetic and clinical data from Norwegian health registries across thousands of subjects, to be integrated into precision medicine platforms in the Norwegian health system.
- Developed a software package for individualized risk prediction across platforms (R, Python, Matlab).
- Supported collaborative data infrastructure projects integrating multiple patient registries.
- Organized the 2024 Oslo Bioinformatics Workshop Week, fostering collaboration among over 100 participants.

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| Visiting Scholar | Sep 2022 |
| Department of Biotechnology and Food Science, NTNU | Trondheim, Norway |

- Compared recirculating aquaculture systems in Oregon and Trondheim; collected DNA from water and zebrafish for microbiome research.

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| Researcher in Quantitative Genetics | Mar 2022 - Dec 2023 |
| Postdoctoral scholar, Institute of Ecology and Evolution, University of Oregon | Eugene, OR, USA |

- Investigated the impact of antibiotic treatment and stocking density on zebrafish fry; managed data processing, conducted analyses, and presented insights to collaborators.
- Established data collection protocols, managed and cleaned datasets from dozens of published reports on microbiome heritability in animals, developed and conducted analyses, and presented findings in *Nature Microbiology*.

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

- Integrated datasets from collaborators across dozens of field sites in Brazil and Gabon on soil characteristics and methane production.
- Designed and conducted laboratory experiments investigating methane production in soil, integrating results with field data for publications in scientific journals and presentations at international meetings.
- Insights from laboratory experiments contributed to the award of a \$3 million (USD) grant from the U.S. National Science Foundation.
- Supervised students and taught courses in biology and scientific computing.

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

- Worked with industry partners to design field trials at research stations and on farms to test strategies for enhancing nutrient management, using R to deliver insights that balanced profitability and environmental impact.
- Presented recommendations to industry partners, farmers, and scientists to facilitate informed decision-making.

LANGUAGES

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

Norwegian: Basic understanding both written and oral. Completed courses to A2 level and currently working on B1. Continuing to study every day.

SKILLS & TOOLS

Languages and Tools

- **R** - Expert in data processing, modeling, plotting and package development
- **Python** - Basic proficiency in data processing, scripting and package development.
- **Collaboration** - Experienced with version control using git, Github.
- **Computing** - Proficiency in Bash, Unix, cloud computing systems (Slurm)
- **Workflow management** - Intermediate proficiency in GNU Make

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 at multiple levels