

Ole Sahlholdt Hansen

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Bioinformatician with interest in and experience with statistical genetics. With a interdisciplinary background that encompass programming, population genetics and machine learning I seek to further the field of complex genetic traits.

Education

M.Sc. in Bioinformatics

June 2022 | Aarhus University

Thesis: Understanding the genetic and causal relationship between common health outcomes and mortality

B.Sc. in Biology

June 2020 | Aarhus University

Skills & Proficiencies

- Coding in R and Python
- Various population genetics methodology
- Working in Linux HPC environments
- Version control - Git
- Workflow construction using GWF workflow
- Self-motivated
- Enjoys working in collaboration with researchers also across scientific fields e.g. grant applications

Work Experience

Research Assistant

National Center for Register-Based Research, Aarhus University
September 2022 - Present

• Projects

- Analyses of genetic data and register data from the iPSYCH cohort and UK Biobank;
 - Genome-wide association analysis (GWAS)
 - Polygenic risk scores (PRS) and heritability analysis
 - Principal component analysis (PCA)
- Pipeline construction in across R and Python using GWF workflow, MungeSumstats, LDpred2.
- Data curation of thousands of summary statistics and Danish registers as well as iPSYCH and UK Biobank data.

• PhD-courses & Conferences

- Advanced R - Fall 2022
- Introduction to Machine Learning for Health Research - Spring 2023
- Bayesian Statistics, Simulation and Software – With a View to Application Examples - Winter 2023
- iPSYCH conference October 2022
- 1st Danish International Conference on Personalised Medicine
- ESHG 2024, submitted abstract for talk/poster

• Other activities

- **Statistical Genetics Journal Club**
 - Journal club at Aarhus University - methods and new findings in the field of genetics
- **Junior seminars** on research topics at NCRR
 - A mixture of teaching- and discussion-based seminars on topics relevant to NCRR, where juniors present and discuss the topics in relation to their own projects