



Seminar Series in Statistics and Data Science

13.10.2020, 14:15 @ Erling Sverdrups plass, Niels H. Abels hus, 8th floor
@ Zoom (ID: 647 8001 2363, Passcode: 488122)

Christian Page: A primer for Genetic Epidemiology

Abstract: In high throughput genetic studies, we study a large number of genetic features in each individual. While the statistical modeling of each feature can be simplistic, the large number of them poses challenges when representing and interpreting the results. I will give some examples on this from an ongoing study on epigenetics analysis and in vitro fertilisation (IVF), where we investigated what effect IVF has on the children's epigenome.



Christian Page

Department of Mathematics, University of Oslo

Christian Page is a Post-Doctoral fellow in Statistics and Data Science at the Department of Mathematics of the University of Oslo. He has a bachelor degree in mathematical biology from NTNU (2010) and a master degree in statistics from the same university (2012). He defended his PhD in genetic epidemiology at the medical faculty (UiO) in 2016, and has had different post-doc and research positions in genetic epidemiology and statistical genetics since then.

His research interest is focused around modelling of chronic disease risk and reproductive biology. He is interested in using statistical models to understand the heterogeneity in human disease risk, and how to assessing the contribution from genetics and environment, both separately and in conjunction. This includes using models for family relationships and geographical models to estimate disease risk in different family constellations and different parts of the country.

A large part of his research has also been focused on methodology when studying reproductive biology and pregnancy health, including how to assess safety of medication use during pregnancy. This includes how to draw causal inference in from large population wide registry and genetic studies of pregnant woman and assess later outcomes in the children depending on maternal use of medication etc.

Next seminar

27.10.2020 @ 14:15 **Benjamin Kedem**
University of Maryland (USA)

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