

Overview of AI-related PhD courses in Norway relevant for NORA's research school - NMBU

Course	Department/Institute	Link	Short Description	Last taught
FYS488 Computational Neuroscience	Faculty of Science and Technology	https://www.nmbu.no/course/FYS488	Selected topics related to mathematical modelling of (i) signal processing in nerve cells, (ii) neural coding and decoding, (iii) receptive fields in the visual system, (iv) information transmission in the nervous system, (v) biophysics of nerve cells, (vi) biological neural networks, and (vii) learning and memory.	2020
BIN420 Bioinformatics for functional meta-omics	Faculty of Chemistry, Biotechnology and Food Science	https://www.nmbu.no/course/BIN420	This course will introduce, explore and assess the vast array of sequencing technology and bioinformatic methods that are available to address these core issues. The course will include an array of contrasting tools to decrypt microbial communities, including those that assess community structure (metagenomics, predictive genome-reconstruction) and function (metatranscriptomics, metaproteomics)	*only given in 2019
HFA401 Biometrical Methods in Animal Breeding	Faculty of Biosciences	https://www.nmbu.no/course/HFA401	For topics we will follow the textbook RA Mrode: Linear Models for the Prediction of Animal Breeding Values, CAB Int. Extra emphasis will be on Multitrait Mixed Models, and Random Regression etc. Relations to machine learning will be sketched.	2020
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