

1 Katalog over vejledere til bachelorprojekt

Listen nedenfor med foreslag til vejledere til bachelorprojekt er organiseret efter det institut vejlederen er tilknyttet. Ved hver vejleder er der nogle få nøgleord, der beskriver personens interesseområder, samt en emailadresse. Man henvender sig selv til en person for at høre om mulighederne for at lave et bachelorprojekt. Man kan henvende sig til en person, enten fordi man generelt er interesseret i emnet, eller hvis man selv har en ide til et projekt.

I vil i første halvdel af oktober blive indbudt til en samtale med den uddannelsesansvarlige (Jens Ledet Jensen).

Jeg anbefaler, at man har fundet en vejleder inden udgangen af november (bemærk fristen 1. december ved vejleder fra økonomisk institut). I skal alle udfylde en bachelorprojektkontrakt via <https://kontrakt.nattech.au.dk/login>. For bachelorprojektkontrakten er det nok, at I udfylder titel og vejleder (projektbekræftelse er ikke krævet).

1.1 From Department of Mathematics

1. Lars Nørvang Andersen (larsa@math.au.dk)
Bioinformatics; Regression analysis; Statistical Learning; BYO data
2. Andreas Basse-O'Connor (basse@math.au.dk)
Bayesian Networks and Graphical Models; Random Constraint Satisfaction Problems
3. Ute Hahn (ute@math.au.dk)
MCMC (markov chain monte carlo)
4. Christian Pascal Hirsch (hirsch@math.au.dk)
Topological data analysis; random networks
5. Asger Hobolth (asger@math.au.dk)
Bioinformatics; Statistical Learning; BYO data
6. Jens Ledet Jensen (jlj@math.au.dk)
Statistical inference for high dimensional data; saddlepoint approximations
7. Markus Kiderlen (kiderlen@math.au.dk)
Survey sampling
8. Claudia Strauch (strauch@math.au.dk)
Statistical Learning

1.2 From Department of Computer Science

1. Gerth Stølting Brodal (gerth@cs.au.dk)
Algorithms, Data Structures and Foundations of Machine Learning
2. Kristoffer Arnsfelt Hansen (arnsfelt@cs.au.dk)
Computational Complexity and Game Theory

3. Kasper Green Larsen (larsen@cs.au.dk)
Theory of machine learning; Data structures; Algorithms; Lower bounds; Cryptography
4. Chris Schwiegelshohn (schwiegelshohn@cs.au.dk)
Algorithm design; Online, streaming, approximation and learning algorithms
5. Ira Assent (ira@cs.au.dk)
Data Analytics; Data management; Data mining; Data-Intensive Systems; Machine learning; Parallel algorithms; Query processing; Search; Text mining
6. Davide Mottin (davide@cs.au.dk)
Graph exploration, which lays on the broad areas of database, data mining, and machine learning.
7. Marianne Graves Petersen (mgraves@cs.au.dk)
interaktionsdesign; Human computer interaction; Augmented reality (AR); Shape-changing interfaces
8. Hans-Jörg Schulz (hjschulz@cs.au.dk)
Visual analysis of structured data, in particular hierarchically and network-structured data

1.3 From Bioinformatics Research Centre

1. Thomas Bataillon (tbata@birc.au.dk) Biodiversitet; Bioinformatik; Evolution; Genetik og molekylær evolution; Monte Carlo-simulering
2. Christian Storm Pedersen (cstorm@birc.au.dk)
Algoritmik; Bioinformatik Design og analyse af algoritmer og datastrukturer; Effektiv algoritmeimplementering; Evolutionære træer; Genomanalyse; Genstruktur identifikation; Sekvensanalyse; Strukturel analyse; Strukturforudsigelse; Tekstalgoritmer og datastrukturer

1.4 From Department of Economics and Business Economics

If you arrange for a supervisor from Department of Economics and Business Economics you must register this finding the appropriate link on the page <https://studerende.au.dk/studier/fagportaler/businessadm/bachelorprojekt-og-speciale/kandidatafhandlingca>. You must make this registration before December 1 (or June 1 for a bachelor thesis project in the autumn). Independent of the above registration you must fill in a contract for the bachelor thesis at <https://kontrakt.nattech.au.dk/login>.

1. Simon Bodilsen (sibo@econ.au.dk)
Volatility modelling and forecasting; Applied machine learning in economics and finance; Time series econometrics; Causal inference; Applied microeconomics
2. Sune Lauth Gadegaard (sgadegaard@econ.au.dk)
Optimization; Scheduling and workforce planning; Vehicle routing; Facility location; Production planning

3. Jens Lysgaard (lys@econ.au.dk)
Routing; Distribution planning; Heuristics; Optimization methods
4. Lars Relund Nielsen (larsrn@econ.au.dk)
Optimization; Simulation; Production planning and control; Scheduling, routing, distribution and transportation; Multi criteria optimization
5. Per Baltzer Overgaard (povergaard@econ.au.dk)
Microeconomic theory (information, contracts, mechanism design, auctions, game theory)
6. Mikkel Sølvsten (miso@econ.au.dk)
Econometric methods and applications; Big data and big models; Statistical and machine Learning; Robustness; Econometrics for panel data
7. Luke Nicholas Taylor (lntaylor@econ.au.dk)
Nonparametric analysis in cross sectional data; Discrimination in crime and justice
8. Allan Würtz (awurtz@econ.au.dk)
Econometric methods; Machine Learning methods; Prediction
9. Bezirgen Veliyev (bveliyev@econ.au.dk)
Financial econometrics; Machine learning and statistics; Microeconometrics.
10. Jesper Wulff (jwulff@econ.au.dk)
Machine learning; AI; Bayesian methods; Business intelligence
11. Benjamin Dybro Liengaard (benlien@econ.au.dk)
Customer analytics; business intelligence; PLS and SEM
12. Leopoldo Catania (leopoldo.catania@econ.au.dk)
Financial econometrics; Time series econometrics; Risk management; Volatility

1.5 From Department of Department of Electrical and Computer Engineering

If you have an interest beyond those listed below you can try to contact Christian Fischer Pedersen (cfp@ece.au.dk) who is representing the department in the education committee.

1. Mads Dyrmann (madsdyrmann@ece.au.dk)
Deep learning; Computer vision
2. Alexandros Iosifidis (ai@ece.au.dk)
Machine learning; Computational intelligence
3. Kaare Mikkelsen (mikkelsen.kaare@ece.au.dk)
Deep learning
4. Naveed Ur Rehman (naveed.rehman@ece.au.dk)
Machine learning; Statistical signal processing