

COURSE DETAIL

CAUSALITY

Country

Denmark

Host Institution

University of Copenhagen

Program(s)

University of Copenhagen

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Statistics

UCEAP Course Number

106

UCEAP Course Suffix**UCEAP Official Title**

CAUSALITY

UCEAP Transcript Title

CAUSALITY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces concepts and theories behind causal inference in order to predict and analyze a system's behavior under manipulations. Topics include causal models versus observational models; observational distribution, intervention distribution, and counterfactuals; graphical models and Markov conditions; and identifiability conditions for learning causal relations from observational and/or interventional data. Working with graphs and graphical models, students derive causal effects, predict the result of interventional experiments, perform variable adjustments for computing causal effects, and gain an understanding of and ability to apply different methods for causal structure learning.

Language(s) of Instruction

English

Host Institution Course Number

NMAK17001U

Host Institution Course Title

CAUSALITY

Host Institution Course Details

<https://kurser.ku.dk/course/nmak17001u/2021-2022>

Host Institution Campus

Host Institution Faculty

Faculty of Science

Host Institution Degree

Master

Host Institution Department

Department of Mathematical Sciences

Course Last Reviewed

2021-2022

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