



PhD Course

Supervised and Causal Machine Learning

Block course

Time: 31th May – 4th June, 2021, 09:00 - 12:00

Course instructor: Professor Michael C. Knaus

Michael Knaus is an Assistant Professor of Econometrics at the Swiss Institute for Empirical Economic Research of the University of St. Gallen and part of the Data and Method Consulting that advices students and faculty regarding their empirical work. His research interests are at the intersection of causal inference and machine learning to answer questions in empirical, mostly labor, economics.

Course value: 2 SWS or 5 LP

Course Overview: Participants of this course will learn and apply recent Supervised and

Causal Machine Learning methods to analyse effects of either

experimental or observational interventions.

Topics: This course will focus on tools that are already mature in the sense

that they are easy to implement for practitioners and covers three

major topics:

1. Estimation of heterogeneous effects for experimental data

2. Estimation of average and heterogeneous effects for

observational data

Teaching language: English

Teaching methods: Presentation, using an R notebook

Registration: Register via <u>anmeldung@hche.de</u>