Summer School by the Sea 2026

Causal Machine Learning & Stochastic Nonparametric Envelopment of Data

June 22 – June 26

At Blekinge Institute of Technology, Karlskrona, Sweden

Introduction

As last year we will have two intensive sessions taught by world leading scholars in their respective fields. We are very happy to have Professor Michael Lechner, University of St. Gallen (https://www.michael-lechner.eu/) and Professor Timo Kuosmanen University of Turku (https://www.utu.fi/en/people/timo-kuosmanen) visiting our summer school. The courses are presented below:

Course 1: Causal Machine Learning, 3.5 credits by Prof. Michael Lechner, *Monday June 22, 12:30 – Wednesday, June 24, 12:00.*

The goal of this workshop is to familiarize students and researchers with causal machine learning methods. The workshop will focus on basic ideas and applications, and to a lesser extent on the underlying statistical theory. The methodological part consists of two introductory lectures on Machine Learning and Causal Machine Learning. This is followed by a hands-on-session in which the Modified Causal Forest (using the Python *mcf* package) is applied to a practical problem.

Course 2: Stochastic Nonparametric Envelopment of Data 20 Years On, 3.5 credits by Prof. Timo Kuosmanen, Wednesday, June 24, 13:00 – Friday, June 25, 11:30.

Stochastic Nonparametric Envelopment of Data (StoNED) was introduced in 2006 to provide a more systematic and rigorous framework for frontier estimation and productive efficiency analysis. In the first day of this course, Prof. Timo Kuosmanen introduces the basics of the StoNED method and surveys the methodological advances over the past two decades. The second day is focused on the empirical application using the Python package pystoned and real-world data of Finnish electricity distribution firms. In the third day, Prof. Kuosmanen discusses some interesting avenues of future research, including causal inferences and machine learning.

Practicalities

Who is it for: PhD students in Industrial Economics, Economics and Statistics, but others are also welcome.

Last day to sign up: June 1. (Notification of acceptance will be asp)

Venue: Blekinge Institute of Technology, Campus Gräsvik, Karlskrona, Sweden
Course fee: There is no course fee, but travel and accommodation need to be covered by participants.
Maximum number: 20 participants on a "first come first served" basis. Priority will be given to PhD students but no one is excluded.
Sign up: email jpm@bth.se indicating what course/s you will attend.
To get to Karlskrona:

Fly:	TBA
Train:	From Copenhagen there is a direct train (around 2,5 hours). You can buy ticket online (sj.se) or in machines at Kastrup airport. Be sure to have a ticket before you get on the train. Also, bring passport since you most likely need to show some type of ID when entering Sweden. From Stockholm there is no direct train. Normally you need to change in Alvesta and Emmaboda
Car	If you bring your car you need to get a parking permit from the reception at BTH. Just introduce yourself as summer school participants for Jonas summer school.

To get to BTH (address: Valhallavägen 1) from the city centre:

Bus 1 will take you from the central station to BTH (stop no 5)

A warm (hopefully in all aspects) welcome to Karlskrona and Blekinge Institute of Technology.

Jonas Månsson (BTH) & Kristofer Månsson (LNU)