Welcome to the MCnet machine learning school!

...held virtually from Lund, Sweden, June 22-26, 2020 Local organizers: Malin Sjödahl and Stefan Prestel with lots of support from Ann Durie & Mike Seymour



It's a pleasure to host this ML school - great lecturers & a great experience so far!

- · Historical notes Carsten Peterson (Computational Biology, Lund)
- Introduction to machine learning Mattias Ohlsson (Computational Biology, Lund)
- Machine learning in high energy physics Ben Nachman (LBNL, Berkeley)
- Machine learning for image analysis Niclas Danielsson (Axis, Lund)
- How to GAN LHC events Anja Butter (Heidelberg),
- Accelerating HEP theory with ML models Stefano Carrazza (Milan)
- How to implement denoising and variational autoencoders Najmeh Abiri (IT-University Copenhagen Computer Science)
- Bayesian deep probabilistic differentiable programming: A scientific approach to AI Michael Green (Desupervised, Copenhagen)
- Can we "machine-learn" the next standard model? Wolfgang Waltenberger (Vienna)
- Towards the autonomous machine learning fueled supply chain Malte Tichy (Blue Yonder, Hamburg)
- Outlook on ML in HEP Tilman Plehn (Heidelberg)

Let's make this week interactive, educational & fun!



During the week, you'll have

- Introductory, in-depth and specialized lectures and presentations ...with lots of chances for questions & answers! Just ask!
- Hands-on tutorials
 ...in smaller breakout groups.

Goal: We want this to be as interactive as possible!

Important information

In case of emergencies, contact the local organizers: Malin Sjödahl (malin.sjodahl@thep.lu.se) and Stefan Prestel (stefan.prestel@thep.lu.se)

You can find information and the timetable in indico: https://indico.cern.ch/event/910548.

All lectures, talks and tutorials will be held on zoom: https://lu-se.zoom.us/j/61820390860 (meeting password: 0118)

We'll be using zoom breakout rooms for the tutorials. Thus, please use the mail with which you registered in zoom as well...and use your full name as screen name.

There's a long history of machine learning in Lund!

...unfortunately, today's lectures won't be available on VHS :(

...but let's get started anyway!

