

**Promotionskolleg Module 6800: Machine learning in applied economic analysis**  
**August 23-27, 2021 (online via video and zoom meeting rooms)**

For all material, see [github repository](#)

**Monday, August 23**

8:30 – 9:00 [Live zoom session](#) “Welcome and clarification of course organisation”

9:00 – 12:00 Videos / Self Study - Intro, prediction versus estimation, overfitting and regularization

12:00 – 13:30 Lunch Break

13:30 – 14:30 [Live zoom session](#) “Q&A session”

14:30 – 17:00 [Live zoom session](#) “Supported lab session with assignment”

**Tuesday, August 24**

8:30 – 12:00 Videos / Self Study - Trees, forests and ML model interpretation (Part 1)

12:00 – 13:30 Lunch Break

13:30 – 14:30 [Live zoom session](#) “Q&A session”

14:30 – 17:00 [Live zoom session](#) “Supported lab session with assignment”

**Wednesday, August 25**

8:30 – 12:00 Videos / Self Study - ML model interpretation (Part 2) and Intro Neural Networks

12:00 – 13:30 Lunch Break

13:30 – 15:00 [Live zoom session](#) “Q&A session and brief own research presentation”

14:30 – 17:00 [Live zoom session](#) “Supported lab session with assignment”

**Thursday, August 26**

8:30 – 12:00 Videos / Self Study - Neural Networks continued, ML and causal inference (Part 1)

12:00 – 13:30 Lunch Break

13:30 – 15:00 [Live zoom session](#) “Q&A session and brief own research presentation”

14:30 – 17:00 [Live zoom session](#) “Supported lab session with assignment”

**Friday, August 27**

8:30 – 11:00 Videos / Self Study – ML and causal inference (continued)

11:00 – 12:30 [Live zoom session](#) “Q&A session and brief own research presentation”

12:30 – 13:30 Lunch Break

13:30 – 16:00 [Live zoom session](#) “Supported lab session with assignment”