**UW SISCER 2023**

**Module 8: Modern Statistical Learning for Observational Data**

**July 18–21, 2023**

**Overview and Schedule**

\* All times are Pacific Daylight Time (PDT)

**Tuesday, July 19**

8:30 – 8:45 Introduction to the course Chapter0.pdf

8:45 – 10:00 Introduction to causal inference Chapter1.pdf

10:00 – 10:15 Break

10:15 – 11:00 Basic identification and estimation of Chapter2.pdf

average treatment effects

11:00 – 11:15 Break

11:15 – 12:00 Basic identification and estimation of Chapter2.pdf

average treatment effects (cont.)

**Wednesday, July 20**

8:30 – 9:30 Basic identification and estimation of Chapter2.pdf

average treatment effects (cont.)

9:30 – 10:00 Super learning Chapter3.pdf

10:00 – 10:15 Break

10:15 – 11:00 Super learning Chapter3.pdf

11:00 – 11:15 Break

11:15 – 12:00 Super learning Chapter3.pdf

**Thursday, July 21**

8:30 – 10:00 Efficient, doubly robust estimation of Chapter4.pdf

an average treatment effect

10:00 – 10:15 Break

10:15 – 11:00 Efficient, doubly robust estimation of Chapter4.pdf

an average treatment effect

11:00 – 11:15 Break

11:15 – 12:00 Identification and inference on the average Chapter5.pdf

treatment effect of a time-varying

**Friday, July 22**

8:30 – 10:00 Identification and inference on the average Chapter5.pdf

treatment effect of a time-varying

intervention

10:00 – 10:15 Break

10:15 – 11:00 Super learner lab Lab1.pdf

11:00 – 11:15 Break

11:15 – 12:00 drtmle lab Lab2.pdf