



MACHINE LEARNING FOR HEALTHCARE

JUNE 14–15, 2021 | professional.mit.edu/mlh

All sessions taught by Prof. David Sontag, except where noted

Note: All times are US Eastern Daylight Time. Schedule is subject to change.

MONDAY, JUNE 14

9:00–10:00 AM	Introduction
10:00–10:30 AM	Overview of clinical data and risk stratification
10:30 AM–12:30 PM	Lab 1: Exploring clinical data and machine learning for risk stratification
12:30–1:30 PM	LUNCH BREAK
1:30–2:30 PM	Clinician perspective (part 1) <i>(Dr. Steven Horng, Beth Israel Deaconess Medical Center)</i>
2:30–5:00 PM	Lab 2: Machine learning for workflows and administration (e.g., billing, risk adjustment)
5:00–6:00 PM	Machine learning on physiological time-series and imaging

TUESDAY, JUNE 15

9:00–10:30 AM	Predicting the outcome of interventions: Causal inference from observational data
10:30 AM–12:30 PM	Lab 3: Machine learning for predicting progression and treatment effects
12:30–1:30 PM	LUNCH BREAK
1:30–2:30 PM	Clinician perspective (part 2) <i>(Dr. Steven Horng, Beth Israel Deaconess Medical Center)</i>
2:30–3:30 PM	Lab 3 (continued)
3:30–5:00 PM	Safe, robust, and fair machine learning deployment
5:00–6:00 PM	State-of-the-art: Current research on machine learning for healthcare