

DISCRETE CHOICE ANALYSIS:

Predicting Individual Behavior and Market Demand

June 12-16, 2023 | Instructors: Moshe Ben-Akiva and Carmine Gioia | professional.mit.edu/dca

Note: All times are US Eastern Daylight Time

	MONDAY, JUNE 12	TUESDAY, JUNE 13	WEDNESDAY, JUNE 14	THURSDAY, JUNE 15	FRIDAY, JUNE 16
LECTURE 1 9:30–11:00 am	Introduction, Choice Behavior and Discrete Choice Models	Nested Logit Models	Mixture Models	Sampling and Estimation; Endogeneity	Machine Learning and Discrete Choice Models
LECTURE 2 11:15 am–12:45 pm	Specification and Estimation of Logit Models	Extreme Value Models; Aggregate Forecasting and Microsimulation	Simulation-Based Estimation	Discrete Panel Data	Discrete Choice Models with Latent Variables
LECTURE 3 1:45–3:15 pm	Specification Testing	Stated Preferences Methods	Combining Stated and Revealed Preferences	Bayesian Estimation	Applications Questions & Answers Ben-Akiva & Gioia
LAB 3:30–5:00 pm	Computer Lab I: Introduction; Logit Estimation and Testing	Computer Lab II: Nested Logit; Aggregate Forecasting	Computer Lab III: Logit Mixtures; Combining Data	Computer Lab IV: Hierarchical Bayesian Estimation; Individual Prediction	Computer Lab V: Hybrid Choice Models
	VIRTUAL RECEPTION 5:00–6:00 pm				