

# DISCRETE CHOICE ANALYSIS: Predicting Individual Behavior and Market Demand

JUNE 7–11, 2021 | Instructors: Moshe Ben-Akiva and Carmine Gioia | [professional.mit.edu/dca](http://professional.mit.edu/dca)

*Note: All times are US Eastern Daylight Time*

	MONDAY, JUNE 7	TUESDAY, JUNE 8	WEDNESDAY, JUNE 9	THURSDAY, JUNE 10	FRIDAY, JUNE 11
<b>LECTURE 1</b> 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
<b>LECTURE 2</b> 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
<b>LECTURE 3</b> 1:45–3:15 pm	Specification Testing	Stated Preferences Methods	Combining Stated and Revealed Preferences	Bayesian Estimation	Applications Questions & Answers Ben-Akiva & Gioia
<b>LAB</b> 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
	<b>VIRTUAL RECEPTION</b> 5:00–6:00 pm				