

Pietro Visaggio

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Ph.D. candidate specializing in Industrial Organization and Energy Economics with expertise in electricity markets, battery storage, and renewable technologies. My research combines theoretical modeling and empirical analysis to investigate how Battery Energy Storage Systems (BESS) are integrated into electricity markets, and how their utilization affects outcome such as market power, consumer surplus, and the integration of renewable resources.

Fields of Interests	Industrial Organization, Energy Economics	
Education	Ph.D. in Economics, Boston College	May 2026 (Expected)
	M.A. in Economics, Boston College	2022
	M.Sc. in Economics and Finance, LUISS & EIEF	2020
	B.A. in Economics and Finance, Università di Tor Vergata	2018
Working Papers	<p>"Pairing Batteries with Renewables: How Ownership Shapes Operational Incentives and Market Outcomes"</p> <p><i>This paper examines how battery storage ownership structure affects wholesale electricity market outcomes by shaping operational incentives. Using a dynamic dispatch model calibrated to ERCOT data, I show how transmission congestion creates conditions in which batteries operated jointly with a renewable plant are used strategically to increase the value of renewable production. The strength of this incentive depends on supply elasticity and the timing of renewable production. Because of this strategic behavior, co-owned batteries earn higher profits, while standalone batteries deliver larger gains in consumer surplus. Market conditions do not generate enough profits for battery investment to be viable, regardless of ownership. Yet if subsidized, co-owned projects would yield the highest net consumer surplus, because the additional revenues they generate reduce the required subsidy sufficiently to outweigh their smaller gross consumer gains.</i></p>	
Work in Progress	"Estimating the Curtailment-Mitigating Role of Battery Energy Storage Systems"	
Conferences and Seminars	ISO-New England Market Design Workshop (September 2025)	
	Berkeley/Sloan Summer School in Environmental and Energy Economics (August 2024)	
Teaching	Teaching Fellow: Machine Learning	Fall 2025
	Teaching Fellow: Environmental Economics	Summer 2025
	Teaching Fellow: Environmental Economics	Summer 2024
	Teaching Assistant Coordinator: Stata Lab	Spring 2024
	Teaching Fellow: Statistics	Summer 2023
Research Experience	Research Assistant: Richard L. Sweeney, Boston College	Summer 2021
	Research Assistant: Luigi Paciello, EIEF	Summer 2019
Programming and Software	Julia, Python, R, Stata, \LaTeX , ArcGIS	

Languages	Italian (native), English (fluent)
Other Interests	Politics, climbing, hiking, skiing, photography, and cooking
References	Richard L. Sweeney, Associate Professor, Boston College, sweeneri@bc.edu Michael D. Grubb, Associate Professor, Boston College, michael.grubb@bc.edu Edson R. Severnini, Associate Professor, Boston College, ersevernini@gmail.com