

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>I develop and simulate a dynamic dispatch model of battery utilization, calibrated to ERCOT real-time market data, to study how ownership structure shapes operational incentives. I show that transmission congestion creates market conditions in which co-owned batteries are used strategically: operators charge more during low-price periods, pushing prices upward and thereby increasing the value of contemporaneous renewable output. The strength of this effect depends on supply elasticity and the timing of renewable production. This strategic use has two contrasting effects: it reduces consumer surplus gains relative to standalone operation, but it almost doubles project profitability. As both ownership types require subsidies to be viable, the higher profitability under co-ownership outweighs the smaller consumer gains, making it the more subsidy-efficient option.</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