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Pietro Visaggio

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Ph.D. candidtate 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

"Pairing Batteries with Renewables: How Ownership Shapes Operational Incentives and Market Outcomes"

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.

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