

BRAVO MELGAREJO Sai

Research Institute for Energy Economics (CEA I-Tésé)
CEA Paris Saclay
CEA de Saclay – Bât 524 – 91191 Gif-sur-Yvette Cedex
sai.bravomelgarejo@cea.fr

Born 06/04/1995
Citizenship: Ecuadorian, French
+33 (0) 1 69 08 52 68
<https://sjbravom.github.io/>

Current and Past Positions

Economist at CEA I-Tésé, Université Paris Saclay	2024 –
Associated Researcher at the Travel Chair	2024 –
Post-Doctoral Researcher at ENAC	2021 – 2024
Doctoral Fellow at UMR TREE CNRS 6031, Université de Pau et Pays de l'Adour (UPPA)	2018 – 2022
Doctoral Fellow at Mines ParisTech	2018 – 2021
Business Analyst at Thales	2018 (6 months)
Research Assistant at INRAE – Toulouse School of Economics (TSE)	2017 – 2018 (5 months)
Research Assistant at Lereps – IEP Toulouse	2017 (5 months)

Education

Ph.D in Economics – UMR TREE CNRS 6031, UPPA	2018 – 2021
The role of hydrogen in the energy transition Committee: F. Candau (UPPA), A. Creti (Université Paris Dauphine), C. Haritchabalet (Advisor - UPPA and TSE), A. Pommeret (Université de Savoie Mont Blanc), and T. Vergé (ENSAE Paris CREST). Funded by the Chair “The Economics of Gas” - Mines ParisTech.	
Master in Economics of Markets and Organizations – TSE (with Honors)	2016 – 2018
Bachelor in Economics – TSE (with Honors)	2013 – 2016

Research Fields

Industrial Organization, Applied Microeconomics, Energy and Environmental Economics.

Grants and Awards

Best Student Paper in Energy Economics, French Association for Energy Economics	2020
Ph.D. Scholarship, Mines ParisTech – Chair The Economics of Gas	2018 (3 years)

Additional Training

Summer School in Experimental Economics– Paris School of Economics	2025
Summer School in Transport Economics – ITEA (with Honors)	2022

Teaching Experience

CentraleSupélec

Perspectives of Modern Geopolitics, TA (12h), Undergraduate (Bsc. Global Engineering)	Spring 2025
---	-------------

TSE

Air Transport Economics, Teacher (2h), Graduate (M2 EMO) Spring 2024, Spring 2025
Macroeconomics, TA (30h), Undergraduate (L2) Fall 2017

ENAC

Industrial Organization, Teacher (13h), Graduate (M1) Fall 2022, Fall 2023, Fall 2024
Market Game, Teacher (3h), Graduate (M1) Fall 2022, Fall 2023
Fundamental Economics, Teacher (18h), Graduate (MSc. IATOM) Fall 2021

UPPA

Applied Microeconomics, TA (30h), Undergraduate (L3) Spring 2021
Industrial Organization, TA (30h), Undergraduate (L3) Spring 2020
Microeconomics, TA (48h), Undergraduate (L2) Fall 2019, Fall 2020

Articles

Publications

[Prosumers: Grid vs. individual storage](#) with C. Haritchabalet. **Energy Economics**, vol. 141, n. 108095, January 2025, 10.1016/j.eneco.2024.108095.

[Adopting and diffusing hydrogen technology in air transport: An evolutionary game theory approach.](#) with S. Chen, E. Malavolti, and R. Mongeau. **Energy Economics**, vol. 125, n. 106864, September 2023, 10.1016/j.eneco.2023.106864.

Working Papers

[Do airlines adopt sustainable aviation fuels under modal competition?](#) with E. Malavolti. (R&R at RIO)

What is the role of psychological factors in urban modal choice? Evidence from Toulouse Metropolis. with I. Hoummirat and I. Laplace. (Draft available upon request)

[A model of vertical restraints and labeling: the case of green hydrogen.](#) with C. Haritchabalet. (Under Review)

Work in Progress

Greening the Public Fleet: Evidence from California's Clean Vehicle Rebate Program.

Balancing Air & Rail: Optimal Transportation Mix & the Role of Coopetition in Successive Markets. with S. Chen and E. Malavolti.

The Economics of Renewables Expansion: Price and Profit Impacts in France.

Understanding Traveler Behavior with Discrete Choice Experiments. with I. Hoummirat and E. Malavolti.

Policy Work

[Cahier d'acteurs n°36 UMR TREE. \(2022\). Stratégie française sur l'énergie et le climat.](#) with X. Arnauld-de-Sartre, P. Lacassy, F. Lachet-Touya, J. Le-Cacheux and J. Pélé.

Conferences and Seminars

46th IAEE International Conference (Paris), TREE Seminar (Pau), SOAR Symposium (Bari). 2025

1st Travel Chair Workshop (Toulouse), 27th ATRS World Conference (Lisbon), 2024

ITEA School and Conference (Leeds), SOAR Symposium (Luxembourg).	
10th FAERE Conference (Montpellier), 50th EARIE Conference (Rome), M2S (Toulouse), International Conference on Mobility Challenges (Paris), SOAR Symposium (Toulouse), PPH2 Seminar (Montpellier), ADRES Conference (Paris).	2023
49th EARIE Conference (Vienna), 25th ATRS World Conference (Antwerp), 27th EAERE Conference (Rimini), ITEA School and Conference (Toulouse), 13th Toulouse Conference on The Economics of Energy and Climate (Toulouse), 38èmes JMA (Rennes).	2022
48th EARIE Conference (Bergen), International Conference on Mobility Challenges (Paris), 37èmes JMA (Annecy), ADRES Conference (Strasbourg), TREE Seminar (Pau).	2021
FAEE Workshop (Paris), CATT Seminar (Pau).	2020

Other research activities

Member of the Local Organizing Committee of the SOAR Symposium	2023
Member of the Local Organizing Committee of the ITEA International Conference	2022
Member of the Scientific Committee of the IAEE Paris International Conference	2021, 2020

Skills

IT	Advanced: R, Stata, Wolfram Mathematica, L ^A T _E X, Office Intermediate: Python (xml, pandas), Matlab, Ngene.
Languages	Fluent in English, French and Spanish. Basic Italian and Portuguese

Voluntary Work

Referee for Journal Air Transportation Management	2025
Referee for Energy Economics	2024
Referee for Transportation Research Part A: Policy and Practice	2023
Voluntary Economist - BSI Economics	2019 – 2022
Board Member and Writer at the TSEconomist	2016 – 2018

References

Bertrand Charmaison	Carole Haritchabalet	Estelle Malavolti
Director CEA I-Tésé	Professor UPPA and TSE	Professor ENAC and TSE
bertrand.charmaison@cea.fr	carole.haritchabalet@tse-fr.eu	estelle.malavolti@tse-fr.eu