Sai Bravo Melgarejo | PhD Student

Université de Pau et Pays de l'Adour, E2S UPPA, TREE ⊠ s.bravo-melgarejo@univ-pau.fr

Research Fields

Industrial Organization, Environmental and Energy Economics.

Education

2021 (expected)	Ph.D in Economics , <i>Université de Pau et Pays de l'Adour, E2S UPPA, TREE</i> , Pau, France Advisor: Carole Haritchabalet
2018	Master in Economics, <i>Toulouse School of Economics</i> , Toulouse, France Specialization in Markets and Organizations, Magna Cum Laude
2016	Bachelor in Economics, <i>Toulouse School of Economics</i> , Toulouse, France Magna Cum Laude

Teaching Experience

Spring 2021	Applied Microeconomics, <i>Université de Pau et Pays de l'Adour</i> , Undergraduate (L3)
Spring 2020	Industrial Organization, <i>Université de Pau et Pays de l'Adour</i> , Undergraduate (L3)
Fall 2019, Fall 2020	Microeconomics, <i>Université de Pau et Pays de l'Adour</i> , Undergraduate (L2)
Fall 2017	Macroeconomics, Toulouse School of Economics, Undergraduate (L2)
Research	

Working Paper

Certification of low-carbon hydrogen in the transport market with C. Harichabalet

This paper develops a theoretical framework to study the deployment of free-of-emissions green hydrogen in the transport sector. We consider a vertically related market with hydrogen producers upstream and fuel stations downstream. Production technologies differ in cost efficiency and carbon emissions. We show that when consumers have limited information about the hydrogen origin, no new green producers are able to enter the market. Producers can use vertical restraints to increase consumer's information but a social desirable outcome is never achieved without government intervention. A label for green hydrogen allows multiple production technologies to co-exist but it needs to be high enough to compensate producers and stations margins.

Work in Progress

Prosumers or Grid Storage? with C. Harichabalet

Private-Public management of hydrogen refueling stations

Professional Experience

2018 – Now	Associated PhD Student at <i>Mines ParisTech</i> – Paris, France Chair "The Economics of Natural Gas" – Research on Hydrogen Economics.
Apr 2018 – Oct 2018	Telecom Market Business Analyst Intern at Thales – Toulouse, France Techno-economic analysis of Telecom LEO projects supervised by Jean-Benoît Laithier.
Nov 2017 – Mar 2018	Research Assistant at <i>Inrae</i> – Toulouse, France Research Project «OBEDIS» supervised by Catarina Goulao (INRA & TSE).
Apr 2017 – Sep 2017	Research Assistant at <i>LEREPS</i> – Toulouse, France Research project «MONOIL» (ANR) supervised by Denis Requier-Desjardins (UT1).

Non-Academic Publications

BSI Economics	Prosumers: a consequence of smart-grids deployment in electricity markets (in frenc		
	Technology challenges of the transport sector decarbonisation (in french)		
	Environmental and health stakes of meat consumption (in french)		
The TSEconomist	Is your internet service provider throttling you?		

Conferences and Seminars

2021	ADRES 2021 (Online)
2020	FAEE Student Workshop (Online)
	CATT Seminar, University of Pau and Pays de l'Adour, E2S UPPA

Research grants and awards

2020	Best student Research Paper in Energy Economics French Association for Energy Economics

2018 Three-year Ph.D. Scholarship. Fondation Mines ParisTech – Chair «Economics of Natural Gas»

Skills

- IT Advanced: R, Stata, Wolfram Mathematica, LaTeX, Office Intermediate: Python (xml, pandas)
- Languages Spanish (native), French (bilingual), English (CAE C1), Portuguese (A1)

Affiliations

BSI Economics, FAEE, EAERE, EARIE

References

Anna Creti	Carole Haritchabalet	Estelle Malavolti	Olivier Massol
Professor of Economics	Professor of Economics	Associate Professor	Associate Professor
Paris-Dauphine University	UPPA & TSE	ENAC & TSE	IFP School
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