

# Sai BRAVO-MELGAREJO

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## Professional Experience

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**Postdoctoral Fellow at ENAC** 2021 –

- Analysis of regulatory, strategic, and public policy questions related to the deployment of green technologies.
- Data collection and statistical analysis using R and Stata.
- Preparation of technical reports and research articles.
- Part of the organization committee of the ITEA Conference and the SOAR Symposium.

**Research Fellow at the Economic of Gas Chair Mines ParisTech** 2018 – 2021

- Analysis of regulatory, strategic, and public policy questions related to the deployment of green technologies.
- Data collection and statistical analysis using R and Stata.
- Preparation of technical reports and research articles.
- Part of the scientific committee of the IAEE Paris International Conference.

**Business Analyst at Thales** 2018

- Techno-economic analysis of satellite constellations.

## Education

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**Ph.D in Economics** 2018 – 2021

*TREE, UMR CNRS 6031, E2S Université de Pau et Pays de l'Adour (UPPA).*

Dissertation: "The role of hydrogen in the energy transition"

Committee: F. Candau (UPPA), A. Creti (Université Paris Dauphine), C. Haritchabalet (UPPA and TSE), A. Pommeret (Université de Savoie Mont Blanc), and T. Vergé (ENSAE Paris CREST).

**Master in Economics of Markets and Organizations (with Honors)** 2016 – 2018

*Toulouse School of Economics (TSE)*

**Bachelor in Economics (with Honors)** 2013 – 2016

*Toulouse School of Economics (TSE)*

## Grants and Awards

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**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)

## Articles

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### Publication

*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

*Prosumers: Grid Storage vs Decentralized Storage* with C. Haritchabalet. **R&R Energy Economics**.

*A model of vertical restraints and labeling: the case of green hydrogen.* with C. Haritchabalet.

*Do airlines adopt sustainable aviation fuels under modal competition?* with E. Malavolti. *Submitted*.

## Work in Progress

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

*What determinants for multimodality? Investigating preferences for multimodality in Toulouse.* with I. Hoummirat and I. Laplace.

*Coopetition: What is the optimal air-rail transportation mix?* with S. Chen 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.

*Hydrogène « vert » : fantasmes et réalités.* 2022. BSI Economics.

*Les projets européens d'interconnexions électriques.* 2021. BSI Economics.

*Prosommateurs : une conséquence directe du déploiement des réseaux intelligents dans le marché de l'électricité.* 2020. BSI Economics.

*Défis des nouvelles technologies dans la décarbonisation du secteur des transports.* 2020. BSI Economics.

*Vers une alimentation "désin-carnée" : Enjeux environnementaux et de santé publique.* 2019. avec M. Coinon. BSI Economics.

## Conferences and Seminars

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- SOAR Symposium (Luxembourg) 2024
- 10th FAERE Conference (Montpellier), 50th EARIE Conference (Rome), M2S (Toulouse), 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

## Skills

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**IT**     Advanced: R, Stata, Wolfram Mathematica, L<sup>A</sup>T<sub>E</sub>X, Office  
          Intermediate: Python, Matlab

**Languages**     Fluent in English, French and Spanish.

## Teaching Experience

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**Teacher at TSE** 2024 –

- Graduate course: Air Transportation Economics (Decarbonization).

**Teacher at ENAC** 2021 –

- Graduate courses: Industrial Organization, Market Game, and Fundamental Economics.

**Teaching Assistant at UPPA** 2019 –2021

- Undergraduate courses: Applied Microeconomics, Microeconomics, and Industrial Organization.

**Teaching Assistant at TSE** 2017 – 2018

- Undergraduate course: Macroeconomics.

## Miscellaneous

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Referee for Energy Economics	2024
Referee for Transportation Research Part A: Policy and Practice	2023
Board Member and Writer - TSEconomist	2016 – 2018

## References

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Carole Haritchabalet	Estelle Malavolti	Isabelle Laplace
Professor UPPA and TSE	Professor ENAC and TSE	Co-head of the Prospective Division ENAC
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