

Mohamed Bahlali

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27 yo – French, Algerian – [Personal website](#)

Education

- 2020 – 2023 **Paris Dauphine University**, *Ph.D. Economics*, Paris.
Modeling the low-carbon transition : a theoretical approach.
Supervisors : René Aïd, Anna Creti.
- 2019 – 2020 **Sorbonne University**, *M.Sc. Applied mathematics*, Paris.
Stochastic calculus, partial differential equations, optimization and control, numerical analysis.
- 2015 – 2019 **Ecole des Mines de Paris**, *M.Sc. Energy engineering*, Paris.
Generalist education (applied mathematics, physics, economics, and law).

Experience

- 2024 – **Postdoctoral researcher**, *Aix-Marseille School of Economics*, Marseille.
- 2020 – 2023 **Ph.D. student**, *Paris Dauphine University*, Paris.
Modeling the low-carbon transition : a theoretical approach.
- March – Sept 2020 **Research intern**, *Climate Economics Chair*, Paris.
Optimal control of decarbonation policies.
- March – Aug. 2019 **R&D intern**, *ARIA Technologies*, Paris.
Numerical methods for modeling atmospheric dispersion of urban pollution.
- Jan. – June 2018 **Analyst intern**, *International Institute for Strategic Studies*, London.
Prospective analysis of energy policies in Southeast Asia.
- June – Déc. 2017 **Analyst intern**, *ArcelorMittal*, Luxembourg.
Models and analyses on European energy markets.

Publications

- 2024 Mohamed Bahlali, Quentin Petit, "An equilibrium model of city with atmospheric pollution dispersion", *Journal of Mathematical Economics*.
- 2023 René Aïd, Mohamed Bahlali, Anna Creti, "Green innovation downturn : The role of imperfect competition", *Energy Economics*.
- 2022 Mohamed Bahlali, "Energy storage and the direction of technical change", *Economics Bulletin*.

Working papers

- 2024 Mohamed Bahlali, Anna Creti, Eva Gossiaux, "Going to work ? The effect of the Low Emission Zones".
- 2024 Mohamed Bahlali, Quentin Petit, "Optimal management of an hydroelectric power plant under environmental constraints".

Other contributions

Contributor to the MedECC Special Report on Climate, Water-Energy-Food-Ecosystems (WEFE) nexus, section 5.3.1, "Technological and social innovations".

Referee : *Revue Economique, Energy Economics, Journal of Mathematical Economics*.

Conferences

- 2023 UEA 2023 (Milan), AFES 2023 (Nairobi), LAGV 2023 (Marseille), GCET 24 (Paris), International Conference on Mobility Challenges (Paris).
- 2022 FiME seminar (Paris), PET 2022 (Marseille), EAERE 2022 (Rimini).
- 2021 Climate Economics Chair seminar (Paris), International Conference on Mobility Challenges (Paris).

Teaching

- 2022-2023 **PSL University**, *Microeconomics*, Lecturer.
- 2021 **Paris Dauphine University**, *Industrial organization*, Tutorials.
- 2020 **Nanterre University**, *Microeconomics*, Tutorials.

Skills

- Languages** French (mother tongue), English (C1), Spanish (B2), Arabic (B1).
- Code** Python, R, Fortran, LaTeX.

Awards

- 2019 **Winner of the Trophées Performance 2019**, *Veolia*.
Prize, awarded by Veolia, for the best Master's thesis in environmental studies.