

Thomas ‘Orlando’ Da Costa

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French | 23 years old

[Personal Academic Website](#)

[Github page](#)

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Research Interests

Dynamic Macroeconomics - Biodiversity, Natural Resources and Growth - Inequalities - Uncertainty and Non-Linearities in modeling - Behavioral Economics - Public policies.

Education

- 2020 – 2025 **École Normale Supérieure de la rue d’Ulm**
École Normale Supérieure (ENS-PSL)
French highest "Grande École". Minor in Environmental Sciences, public policy-oriented cursus (economics, political sciences, sociology). Dual degree with AgroParisTech.
- 2024 – 2025 **External Auditor in Macroeconomics courses**
Paris School of Economics (PSE) & Sorbonne Paris Nord (Paris XIII)
3 courses from the Analysis and Policy in Economics M2 program (APE - PSE),
2 courses from the EPOG one (Economic Policies for the Global transition - Paris XIII).
- 2023 – 2025 **M.Sc. in Environmental Economics, Spe. Prospective Modeling**
AgroParisTech - Paris-Saclay University (Paris XI)
M1: [Thesis](#) ; [Slides](#).
- 2021 – 2023 **M.Sc. in Cognitive sciences**
Cognitive Sciences department - ENS-PSL
Magna cum laude (15.23/20 | GPA: ~ 3.6).
M2: [Thesis \(in French\)](#).
- 2020 – 2021 **Introductory year**
Physics department - ENS-PSL
- 2017 – 2020 **B.Sc. in Physics**
Sorbonne University (Paris VI)
Summa cum laude (16.31/20 | GPA: ~ 3.8).
- 2017 – 2020 **B.Sc. in Mechanics**
Sorbonne University (Paris VI)
Summa cum laude (16.40/20 | GPA: ~ 3.8).
- 2017 **Baccalauréat - Engineering Sciences, Spe. Physics**
Lycée Martin Luther King
Highest honors (18.63/20 | GPA: ~ 3.9), latin and music options.

A list of all the courses I have taken can be found [here](#).

Research Experience

06/2024 – **Paris School of Economics**
09/2024 *with Marc Fleurbaey, CNRS*

CLIMATE IMPACTS HAVE BEEN UNDERESTIMATED: A NEW CLIMATE DAMAGE FUNCTION FOR AN OPTIMAL CLIMATE POLICY.

Modifying an Integrated Assessment Model (the NICE model, a derivative of Nordhaus' RICE) to incorporate a damage function with a growth effect and assessing its effect on the optimal carbon price trajectory and on inequalities.

Macroeconomics, Environmental Economics, Welfare Economics, Modeling.

04/2023 – **Georgetown Environmental Justice Program & INRAe**
09/2023 *with Pauline Smith & Corinne Robert*

NATURE CONNECTEDNESS, RISK PERCEPTION AND RISK ATTITUDES: THREE BEHAVIORAL FACTORS FOR A BETTER UNDERSTANDING OF PESTICIDE USE.

Behavioral Economics, Environmental Psychology and Data Analysis applied to a national public policy (Plan Écophyto).

09/2021 – **Paris Brain Institute**
05/2022 *with Liane Schmidt*

UNREALISTIC OPTIMISM BIAS IN BELIEF UPDATING: EFFECTS OF CONFINEMENT DURING COVID-19 AND EXPERIMENTAL DESIGN.

Studying the suppression of belief updating bias in a stressful environment.

Experimental Psychology, Data Analysis.

06/2019 – **Plasma Physics Lab (UMR 7648)**
07/2019 *with Matthieu Berthomier, CNRS*

CARACTÉRISATION D'UNE FEUILLE DE GRAPHÈNE POUR LA SPECTROMÉTRIE DE MASSE IONIQUE À CHAMP DE VUE 3D DANS LES PLASMAS SPATIAUX.

Modeling the time-of-flight chamber of a mass spectrometer, simulating the trajectory of particles subjected to an electromagnetic field and building an experimental protocol to transfer a graphene sheet (thickness: 30 μm).

Experimental Physics, Data Analysis and Modeling.

Research Papers

Publications (Work in progress)

2024 **Effects of experiencing the COVID-19 pandemic on optimistically biased belief updating**
with Iraj Khalid, Orphée Morlaàs, Hugo Bottemanne, Lisa Thonon, Philippe Fossati, Liane Schmidt

In revision, preprint [here](#).

2024 **What carbon price for a net-zero transition by 2050? Insights from the NICE model under different policy regimes at national and international levels** (Provisional title)
with Marc Fleurbaey, Fabrice Murtin
In progress.

2024 **Farming practices and behavioral factors: a case study in eastern France** (Provisional title)
with Elliot Meunier, Corinne Robert
In progress.

Reports and Notes

2023 **How to Design an Effective Composting Program at École Normale Supérieure: An Intervention Proposal**
with Tristin Blatt, Sofya Goldina, Lena Pasalskaya
[Report](#).

Unpublished Manuscripts

2022 **MDMA-assisted psychotherapy in the treatment of PTSD: A Systematic Review and Meta-Analysis**
with Jérémie Beucler, Evangelia Petropoulou, Lakshwin Shreesha
[Manuscript](#).

2020 **Elastocaloric effect applied to cooling systems: theoretical and experimental considerations**
with Jessy Flaharty, Nicolas De Pinho Dias, Gaspard Douin, Marin Bacry
[Manuscript](#) (in French).

Other Activities

11/2023 – **Member of the AgroParisTech Board of Directors** **Student Representative**
11/2025 *AgroParisTech*
Commission Permanente and Ethics Unit member, involved in curriculum reform on themes related to ecological transitions.

01/2023 – **Energy Sobriety Project Assistant**
04/2023 *Heritage department - ENS-PSL*
Measurements to optimize heating plant management for future energy audits.

01/2022 – **Presidency and management of marching bands**
12/2022 *Ernestophone / Zizany Brass Band*
Administrative and human management: organisation of two international summer tours, participation in film shoots, festivals and other events, online communication, etc. Turnovers of 20,873.89 (Ernestophone) and 12,000.48 (Zizany Brass Band), for respectively ~100 and 12 members.

Miscellaneous

Languages: French (native), English (C1), Spanish (B1), Portuguese (notions).

Computer Literacy: R, Julia, Python, Fortran, L^AT_EX, QGIS, Adobe Suite (InDesign, Photoshop, Premiere Pro), Microsoft Suite.

Various Interests: Music (Clarinet, Piano, Ukulele, Singing), Sports (Climbing, Hiking, Biking), Hitchhiking.

References available upon request.