

# Jérôme HAMBYE-VERBRUGGHEN

*Updated September 9, 2025*

## PERSONAL DETAILS

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**Current address** Bureau d'économie théorique et appliquée (BETA), UMR 7522  
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**BETA** <https://beta-economics.fr/annuaire/509/hambye/>

## CURRENT POSITION

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Ph.D Candidate in Economics for the Bureau of Theoretical and Applied Economics (BETA), University of Strasbourg, France

## RESEARCH INTEREST

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Ecological & Post-growth Economics, Structural Change, Energy & Exergy Analysis, Energy Efficiency, Decomposition analysis

## EDUCATION

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**Ph.D in Economics** *2021 - Ongoing*  
BETA, University of Strasbourg (FR)  
Thesis : “ENERGY, THERMODYNAMICS, AND STRUCTURAL CHANGE IN THE ERA OF CLIMATE CHANGE AND DIGITALISATION”  
(Last title update: May. 2025)  
Supervisors : S. Bianchini (BETA, Unistra), F. Perrin (BETA, Unistra, Lund University), C. Diebolt (BETA, Unistra, CNRS)

**Master's degree in Economic Analysis and Policy**, *with highest honours* *2019 - 2021*  
Faculty of Economics and Administration (FSEG), University of Strasbourg (FR)  
Specialization in Statistics & Econometrics

**Bachelor's degree in International Economics and Management** *with high honours* *2018-2019*  
Faculty of Economics and Entrepreneurship, University of Montevideo (UY)  
Third year of Bachelor's degree, Exchange programme

**Bachelor's degree in International Economics and Management** *with high honours 2016-2018*  
Faculty of Management, Economics, and Sciences, Catholic University of Lille (FR)  
First and Second year of Bachelor's degree, On site

**Economic and Social High School Diploma** *with highest honours* 2016  
International Lycée of Ferney Voltaire (FR)

## PUBLICATION

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Hambye-Verbrugghen J., Bianchini S., et al. (2026). From twin transition to twice the burden? Digitalisation, energy demand, and economic growth. **Ecological Economics**, 239(108747) ([link](#))

## WORK IN PROGRESS

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Energy decomposition analysis and exergy economics: a research synthesis

Energy decomposition analysis and exergy economics: a multi-country multi-model comparison

## COMMUNICATIONS

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**April 2025:** Exergy economics network bi-monthly meeting (*online*)

**September 2024:** EAEPE 2024, Conventional panel presentation – European Association for Evolutionary Political Economy (*Bilbao*)

**June 2024:** 10<sup>th</sup> International Degrowth Conference and 15<sup>th</sup> Conference of the European Society for Ecological Economics, Poster and Conventional panel presentation – ESEE & Degrowth conference (*Pontevedra*)

**May 2024:** BETA internal seminar – Creativity, Science & Innovation research group (*BETA, Strasbourg University*)

**April 2024:** ITI MAKErS young researchers' day – ITI MAKErS (*Strasbourg*)

**November 2023:** BETA internal seminar – Environment, Forest & Energy research group (*Sarrebouurg*)

**July 2023:** Exergy economics annual workshop – Exergy economics network (*Chambéry*)

**October 2022:** BETA internal seminar – Creativity, Science & Innovation research group (*BETA, Strasbourg University*)

**June 2022:** PhD Workshop – Economics of Innovation, AI & Data Science Applications (*Copenhagen Business School*)

## TRAINING

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**Popular science communications** Apr. 28-29, 2025  
Introduction to communication methods for popular science – *Coordinators: Jardin des Sciences (Université de Strasbourg)*

**Data visualisation** Mar. 11, 2025  
Techniques, tools, and concepts to keep in mind for precise, syntactical, and efficient data visualisation – *Coordinators: Denis Parade (UR Strasbourg)*

**10<sup>th</sup> Pre-Conference for Young Scholars: "change in the capitalist order"** *Sept. 3, 2024*  
 Organised by the European Association for Evolutionary Political Economy (EAEPE) and the  
 Institute for New Economic Thinking Young Scholar Initiative (INET YSI) – *Coordinators: Anna*  
*Hornykewycz, Johanna Rath, and Merve Burnazoglu*

**PhD Symposium** *Jun. 17, 2024*  
 International Degrowth Conference & Conference of the European Society for Ecological Eco-  
 nomics – *Coordinators: Alejandro Fortuny, Josephine Becker, Noortje Keurhorst, Víctor Sánchez (Uni-*  
*versity of Vigo)*

**Introduction to Agent-Based Models** *Dec. 12, 2023*  
 Doctoral lesson to introduce to the fundamentals of Agent Based Modelling – *Coordinator: Andrea*  
*Borsato (Université de Strasbourg, Université de Lorraine, BETA, CNRS)*

**Train-the-Trainer Open Science programme** *Jun.-Sept. 2023*  
 Training to become an Open Science trainer in my own doctoral school – *Coordinator: Noël*  
*Thiboud (URFIST Strasbourg)*

**Open Science** *Oct.-Dec. 2022*  
 Introduction to open science, Open Access publications, Open Data – *Coordinator: Noël Thiboud*  
*(URFIST Strasbourg)*

**Ecological Economics for All** *July 2022*  
 Online Summer Crash Course University of Vermont – *Coordinator: Rigo Melgar (University of*  
*Vermont / Gund Institute)*

**Energy, Economic, and Environmental Scenarios** *July 2022*  
 MOOC Técnico Lisboa – *Coordinators: Tânia Sousa, Laura Felício, João Santos, Ricardo da Silva*  
*Vieira, António Alvarenga, Rui Prada, André Silva (Técnico Lisboa)*

**Sustainable transitions in employment, economic welfare and environment** *June 2022*  
 Summer School Università di Pisa – *Coordinators: Dr. Ralph Hall (Virginia Tech), Prof. Nicholas*  
*Ashford (MIT), Dr. Tiziano Distefano (Università di Pisa), Prof. Tommaso Luzzati (Università di*  
*Pisa)*

## GRANTS & AWARDS

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**2021:** Winner of the Interdisciplinary Thematic Institute (ITI) MAKerS' ("Making European Society")  
 call for Ph.D students

## WORK EXPERIENCE

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<b>Teaching assistant</b>	<b>FSEG, University of Strasbourg</b>	
<i>2024-2025</i>	Biophysical Measurements of Environmental Changes (7.5h)	Master ETIK, year 2
<i>2022-2025</i>	Econometrics I (120h)	Undergraduate year 3
<i>2021-2024</i>	Macroeconomics I (60h)	Undergraduate year 1
<i>2021-2022</i>	Microeconomics III (30h)	Undergraduate year 2
<b>Trainer</b>	<b>URFIST Strasbourg, University of Strasbourg</b>	
<i>November 2024</i>	Open Science Training – Open data and open software in the context of research, applied to economics and management sciences. Part of the Open Science accredited training ( <i>Formation labellisée à la science ouverte,</i> <i>FLSO</i> ) conducted by GIS Réseau URFIST.	

<b>Research assistant</b> <i>August 2021</i>	<b>BETA, University of Strasbourg</b> Autonomous research work on the spatial interactions occurring between demographic features and technological change (green and digital innovation) in Europe, under the supervision of S. Bianchini.
<b>Academic mentor</b> <i>2020 - 2021</i>	<b>FSEG, University of Strasbourg</b> Academic mentoring as part of the national plan (REPARE) to prevent school dropout in the COVID context.
<i>2019 - 2020</i>	Tutoring and homework support for First year students.

## REVIEWING ACTIVITIES

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Structural Change and Economic Dynamics

## ADMINISTRATIVE RESPONSIBILITIES

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Member of the Interdisciplinary Thematic Institute (ITI) MAKErS, “Making European Society”

Member of the BETA DDRS (Sustainable Development) Working Group

Elected member of the Faculty Council, University of Strasbourg (2021–2023, 2023–2025)

Secretary of the organising committee of the Augustin Cournot Doctoral Days (ACDD 2023) 20th edition

## NETWORKS

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Post-growth Economics Network (*PEN*) – coordinator (2023–2025) & member

European Society of Environmental and Resource Economists (EAERE) – member (2025)

Exergy Economics research network – member

REpanser l'éco Strasbourg (*Rethinking Economics*) – Co-founder

European Society for Ecological Economics (ESEE) Students – member

## COMPUTER & LANGUAGE SKILLS

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<b>Programming</b>	Advanced : R Novice : Python, SAS Studio Basic knowledge : Stata, EViews, BASH, Git
<b>Operating System</b>	Linux, Microsoft
<b>Typesetting</b>	MS Office 365 & LibreOffice, L <sup>A</sup> T <sub>E</sub> X, Markdown
<b>Languages</b>	French – Native English – Fluent Spanish – Advanced Russian – Elementary