

ASSOCIATE PROFESSOR IN ECONOMICS

Université de Versailles-St-Quentin-en-Yvelines – Université Paris-Saclay

Mateo CORDIER

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*Born in Brussels in 1980,
Belgian*

Master's Degree in Bioengineering

(at ULB and Gembloux Agro-Bio Tech, Belgium)

PhD in economics (UVSQ, France) and in biological engineering and agricultural sciences (ULB, Belgium)



EDUCATION

ULB and Gembloux Agro-Bio Tech (Belgium) :

2008–2011: **PhD in economics** at Université de Versailles-Saint-Quentin-en-Yvelines (UVSQ, France) **and in biological engineering and agricultural sciences** at Université Libre de Bruxelles (ULB, Belgium). Title translated from French: “*Estuarine ecosystem and regional economic system: feasibility of integration through Input-Output modeling. Application to the case of fishery habitat in the Seine estuary*”. Presented the 5th of July at UVSQ, Saint-Quentin-En-Yvelines, France, 477 pp.

Available at : <https://archimer.ifremer.fr/doc/00048/15926/>

1999–2004: **Master's Degree in Bioengineering (Belgium) at Université libre de Bruxelles (ULB) and Gembloux Agro-Bio Tech :**

- Completed 2 years of undergraduate studies at ULB (Bachelor's degree)
- Completed 1 year of undergraduate studies (Bachelor's degree) and 2 years of postgraduate studies (Master's program) at Gembloux Agro-Bio Tech.

2002: **University exchange program:** 5 months studying at McGill University (Canada).

PROFESSIONAL EXPERIENCE

Université de Versailles-Saint-Quentin-en-Yvelines (UVSQ, France) :

2017-2020 : **Coordinator of the Work Package-Transverse of the ACE-ICSEN Project** « *Adaptation to Environmental Changes: A Multi-scale and Transdisciplinary Approach – Institute of Socio-Environmental Changes* ». Funding: IDEX Paris Saclay (Strategic Research Initiatives - IRS), budget of €120,000.

2015-2021 : – **Deputy Director of CEARC** (Research Center on Cultures-Environments-Arctic-Representations-Climate, UVSQ).

Since 2015 : – **Coordinator of the Master's Program** « *Transition towards Sustainability* » (UVSQ - Paris-Saclay University). Website : <https://www.universite-paris-saclay.fr/formation/master/etudes-du-developpement-et-de-lenvironnement/m1-transition-vers-la-soutenabilite>

Since March 2013 : **Researcher** at CEARC : <https://www.cearc.fr/>

Since Sept. 2012 : **Associate professor** in economics at UVSQ (150 hours of teaching per year):

- Undergraduate lecture : « *Development, growth and inequalities* » (2021-2024)
- Postgraduate lectures: « *Environmental economics* », « *Ecological economics* » (2013-2024), « *Introduction to industrial ecology* » (2013-2024), « *Impact analysis of climate changes* » (2015-2024).
- Supervision of master's theses (2012-2024).

2011 – 2012 : **Post-doctoral researcher** at UVSQ in the research center *Research in Ecological Economics, Eco-Innovation and tool Development for Sustainability* (REEDS).

Université Libre de Bruxelles (ULB, Belgium) :

2006 – 2007 : Researcher at the Center for Economic and Social Studies of the Environment at Université Libre de Bruxelles (CEESE - ULB, Belgium).

European Volunteering Service funded by the European Commission (Slovakia) :

2005–2006 : **One year volunteer at the Regional Energy Management Agency and at BIOMASA:**

- Seeking funding for BIOMASA, an industry producing renewable wood pellets.
- Organizing information and awareness activities in English on climate change and energy savings.

AWARDS AND PRIZES

- **Winner of the Louis Forest/Aguirre-Basualdo Prize** awarded by the Chancellerie des Universités de Paris, December 6, 2012, at the Sorbonne for the doctoral thesis
- **Nominated for the Doctoral Thesis Award for Future Generations 2012**, nominated by the Foundation for Future Generations, April 30, 2013, in Belgium
- **Winner of the David & Alice Van Buuren Fund Prize** awarded for doctoral research, May 3, 2010.

LANGUAGES

French : Mother tongue.
English : Good knowledge (speaking – reading – writing).
Spanish : Good knowledge (speaking – reading). Intermediate proficiency (writing).

PEER-REVIEWED INTERNATIONAL JOURNALS

- **Cordier M.**, Pérez Agúndez J. A., O'Connor M., Rochette S., Hecq W., **2011**. Quantification of interdependencies between economic systems and ecosystem services: an input-output model applied to the Seine estuary. *Ecological Economics* 70 (9), 1660-1671.
- Audrain J., **Cordier M.**, Faucheux S., **2013**. Ecologie territoriale et indicateurs pour un développement durable de la métropole parisienne. *Revue d'Economie Régionale et Urbaine*, n°3-2013, 525 – 562.
- **Cordier M.**, Pérez Agúndez J. A., Hecq W., and Hamaide B., **2014**. A guiding framework for ecosystem services monetization in ecological-economic modeling. *Ecosystem Services* 8 (2014) 86–96.
- **Cordier M.**, Uehara T., Weih J., Hamaide B., **2017**. An Input-Output Economic Model integrated within a System Dynamics Ecological Model: feedback loop methodology applied to fish nursery restoration. *Ecological Economics* 140, 46–57.
- Baztan J., **Cordier M.**, Huctin J-M., Zhu Z., Vanderlinden J-P., **2017**. Life on thin ice: Insights from Uummannaq, Greenland for connecting climate science with Arctic communities. *Polar Science* 13, 100–108.
- Uehara T., **Cordier M.**, Hamaide B., **2018**. Fully Dynamic Input-Output/System Dynamics Modeling for Ecological-Economic System Analysis. *Sustainability* 10, 1765.
- **Cordier M.**, Poitelon T., Hecq W., **2018**. The shared environmental responsibility principle: new developments applied to the case of marine ecosystems. *Economic Systems Research* 31(2), 228–247.
- **Cordier M.** and Uehara T., **2019**. How much innovation is needed to protect the ocean from plastic contamination? *Science of the total environment* 670 (2019) 789–799.
- Vanderlinden, J. P., Baztan, J., Chouinard, O., **Cordier, M.**, Da Cunha, C., Huctin, J. M., ... & Surette, C., **2020**. Meaning in the face of changing climate risks: connecting agency, sensemaking and narratives of change through transdisciplinary research. *Climate Risk Management* 29 (2020) 100224.
- **Cordier M.**, Uehara, T., Baztan, J., Jorgensen, B., Yan, H., **2021**. Plastic pollution and economic growth: the influence of corruption and lack of education. *Ecological Economics* 182, 106930.
- Uehara, T., Hidaka, T., Tsuge, T., Sakurai, R., and **Cordier, M.**, **2021**. An adaptive social-ecological system management matrix for guiding ecosystem service improvements. *Ecosystem Services*, 50, 101312.
- Sansilvestri, R., **Cordier, M.**, and Lescuyer, T., **2021**. Winners and Losers in Energy Transition: Study Case of Wood Biomass Power-Plants Implementation in France. *Forests*, 12(9), 1139.
- Uehara T., Asari M., Sakurai R., **Cordier M.**, Kalyanasundaram M., **2022**. Behavioral barrier-based framework for selecting intervention measures toward sustainable plastic use and disposal. *Journal of Cleaner Production*, 135609.

- Uehara, T., **Cordier, M.**, Baztan, J., & Jorgensen, B., **2023**. The sustainability series: the plastics problem-investigating socio-economic dimensions of plastic pollution. *Frontiers in Sustainability*, 4, 1209626.
- **Cordier, M.**, Uehara, T., Jorgensen, B., & Baztan, J., **2024**. Reducing plastic production: Economic loss or environmental gain?. *Cambridge Prisms: Plastics*, 2, e2.
- Baztan, J., Jorgensen, B., Almroth, B. C., Bergmann, M., Farrelly, T., Muncke, J., ..., **Cordier M.**, ..., & Wagner, M., **2024**. Primary plastic polymers: Urgently needed upstream reduction. *Cambridge Prisms: Plastics*, 2, e7.
- Yan, H., **Cordier, M.**, & Uehara, T., **2024**. Future projections of global plastic pollution: Scenario analyses and policy implications. *Sustainability*, 16(2), 643.
- Prima Citta, S., Uehara, T., **Cordier, M.**, Tsuge, T., & Asari, M., **2024**. Promoting menstrual cups as a sustainable alternative: a comparative study using a labeled discrete choice experiment. *Frontiers in Sustainability*, 5, 1391491.

SELECTED INTERNATIONAL CONFERENCES (RECENT PRESENTATIONS)

- Novembre 2022: MICRO 2022** – Plastic pollution from micro to nano, 14-18 novembre, Lanzarote, Espagne, « *Demographic Factors and the Environmental Kuznets Curve: Global Plastic Pollution by 2050 Could Be 2 to 4 Times Worse than Projected* ».
- Novembre 2022: MICRO 2022** – Plastic pollution from micro to nano, 14-18 novembre, Lanzarote, Espagne, “*Behavioral barrier-based framework for selecting intervention measures toward sustainable plastic use and disposal*”.
- April 2022: Cornell University (USA)**, Oral presentation to the international course online “Plastics: Impacts and Action”, 6 April 2022, « *Plastic pollution and economic growth: the influence of corruption and lack of education* ».
- June 2021: Cornell University (USA)**, Oral presentation to the international course online “Plastics: Impacts and Action”, 2 June 2021, « *Plastic pollution and economic growth: the influence of corruption and lack of education* ».
- April 2021: The Global council for Science (USA)**, 14 April 2021, « *Plastic pollution and economic growth: the influence of corruption and lack of education* ».
- Novembre 2020: Micro 2020**, 23-27 novembre, Lanzarote, Espagne, « *Plastic pollution and economic growth: the influence of corruption and lack of education* ».
- Septembre 2018: The International Society for Ecological Economics (ISEE) 2018 Biennial Conference**, 10-12 Septembre, Puebla, Mexique, “*Regional and sectorial impacts of cost allocation rules & impacts of ecological restoration schedule: input-output/system dynamics modeling*”.
- Novembre 2018: MICRO 2018** - Fate and Impact of Microplastics: Knowledge, Actions and Solutions, 19-23 novembre, Lanzarote, Espagne, colloque international organisé par El Cabildo de Lanzarote, l’UVSQ, Plymouth University, l’AWI, Cornell University, Università di Siena et Marine Sciences For Society, « *A social-ecological framework tackling plastic pollution* ».