Rosa van den Ende

www.rosavandenende.github.io
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Research interests

Climate policy, sustainable development, complex systems, environmental responsibility, network theory, game theory, economic modelling and economic theory.

Professional experience

European Commission, Brussels, Belgium   10/2025–02/2026

- ▷ Economic analyst at the Directorate-General for Economic and Financial Affairs (DG ECFIN)
- ▷ Part of Blue Book traineeship programme

Centre d'Économie de la Sorbonne, Paris, France   09/2024–08/2025

- ▷ Temporary teaching and research fellow (ATER)

Economic Policy in Complex Environments (EPOC), France and Germany   09/2021–08/2024

- ▷ European Marie Skłodowska-Curie Innovative Training Network programme
- ▷ Centre d'Économie de la Sorbonne, Université Paris I Panthéon-Sorbonne
- ▷ Institute for Mathematical Economics, Bielefeld University

United Nations University, Bonn, Germany   08–10 / 2022

- ▷ Visiting researcher at the Institute for Environment and Human Security (UNU-EHS)

Education

PhD, Applied Mathematics, *Université Paris I Panthéon-Sorbonne*
PhD, Economics, *Bielefeld University* **(summa cum laude)**   2025

- ▷ Title: "Network-based approaches to climate responsibility"
- ▷ Defended on 2 October 2025
- ▷ Supervisors: Agnieszka Rusinowska and Manuel Förster
- ▷ Chair: Philippe Bich
- ▷ Referees: Marie Laclau and René van den Brink
- ▷ Examiners: Herbert Dawid, Laura Hernandez, Lucie Ménager

Master of Science, Theoretical Physics   2021

- ▷ *University of Amsterdam* and *Vrije Universiteit Amsterdam*

Bachelor of Science, Beta-gamma (Natural and Social Sciences)   2018

- ▷ *University of Amsterdam*

Publications

- Network-based allocation of responsibility for greenhouse gas emissions
  van den Ende, R., Mandel, A., Rusinowska, A.
  Social Choice and Welfare 66, 423–472 (2026) ● *doi*

- Quantum state reduction of general initial states through spontaneous unitarity violation
  Mukherjee A., Gotur, S., Aalberts, J., van den Ende, R., Mertens, L., van Wezel, J.
  Entropy 26(2), 131 (2024) ● *doi*

Working papers and work in progress

- Diffusion in dynamic networks with time-varying inputs to allocate responsibility
  van den Ende, R., Laplace Mermoud, D.
  arXiv preprint arXiv.2301.02728 ● 2025

- Strategic behaviour under network-based responsibility for greenhouse gas emissions
  van den Ende, R.
  Manuscript (mimeo), in preparation for submission

Presentations

▷ Invited

1. Janeway Institute PhD workshop on Economic Networks - Cambridge, United Kingdom, 2025
2. Complexity Economics, Institute for New Economic Thinking - Oxford, United Kingdom, 2024
3. 29th Conference on Computing in Economics and Finance (CEF) - Nice, France, 2023
4. 22nd Society for the Advancement of Economic Theory conference (SAET) - Paris, France, 2023

▷ Conferences

5. 20th European Meeting on Game Theory (SING) - Maastricht, Netherlands, 2025
6. 28th Coalition Theory Network (CTN) - Paris, France, 2025
7. 2025 ADRES Job Market Conference, Strasbourg, France, 2025
8. International Conference Economic Policy in Complex Environments (EPOC), Milan, Italy, 2024
9. 19th European Meeting on Game Theory 2024 (SING) Besançon, France, 2024
10. 2024 International Conference on Public Economic Theory (PET) - Lyon, France, 2024
11. 18th European Meeting on Game Theory (SING) - Messina, Italy, 2023
12. 26th Annual Coalition Theory Network Conference CTN, Bielefeld, Germany, 2023

▷ Seminars

13. European Commission seminar: Joint Research Centre (JRC), Brussels, Belgium, 2025
14. Networks and Games Seminar, Centre d'Économie de la Sorbonne (CES) Paris, France, 2025
15. UFR 27 Mathematics and Computer Science Day, Université Paris 1 Panthéon-Sorbonne, Paris, France, 2024
16. Networks and Games Seminar, Université Paris I Panthéon-Sorbonne - Paris, France, 2024

17. NEGOCLIM: Modeling and Simulating Climate Negotiations, Paris, France, 2023
18. Networks and Games Seminar, Université Paris I Panthéon-Sorbonne - Paris, France, 2023
19. BiGSEM Colloquium, Bielefeld University - Bielefeld, Germany, 2023
20. Analytics Talks, United Nations University Institute for Environment and Human Security (UNU-EHS) - Bonn, Germany, 2022

Teaching

Teaching assistant

▷ Computer science: Python programming 1   2024–2025
Université Paris 1 Panthéon-Sorbonne, Bachelor 1 in Mathematics and Computer Science Applied to Social Sciences • 48h • [in French]

▷ Computer science: Python programming 2   2024–2025
Université Paris 1 Panthéon-Sorbonne, Bachelor 1 in Mathematics and Computer Science Applied to Social Sciences • 48h • [in French]

▷ Special relativity   2018–2019
University of Amsterdam, Bachelor 1 in Natural and Social Sciences • 32h

Funding

▷ Recipient of a Marie Skłodowska-Curie doctoral fellowship, funded by the European Union's Horizon 2020 programme (2021)

▷ Recipient of a conference grant from the Association pour le Développement de la Recherche en Économie et Statistique (ADRES) (2025)

Refereeing

▷ Physica D: Nonlinear Phenomena

Responsibilities and organisation

▷ Logistical support for the 28th Coalition Theory Network conference, Paris, 2025
▷ PhD student representative at EPOC (2021–2024)
▷ Co-organiser of the International Doctoral Workshop, Venice, 2024
▷ Logistical support for the 22nd SAET Conference, Paris, 2023
▷ Chair of the committee of the Interdisciplinary Conference of Amsterdam (ICA), Amsterdam, 2016