

ROSA VAN DEN ENDE

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RESEARCH INTERESTS

Network theory • axiomatic methods • fairness and allocation • mathematical foundations of responsibility attribution • climate policy.

PROFESSIONAL EXPERIENCE

- Centre d'Économie de la Sorbonne** 03/2026–present
▷ Junior associate researcher
- European Commission** 10/2025–02/2026
▷ Economic analyst, Directorate-General for Economic and Financial Affairs (DG ECFIN)
- Centre d'Économie de la Sorbonne** 09/2024–08/2025
▷ Teaching and research associate (ATER)
- Economic Policy in Complex Environments (EPOC)** 09/2021–08/2024
▷ European Marie Skłodowska-Curie Innovative Training Network
▷ Centre d'Économie de la Sorbonne, Université Paris I Panthéon-Sorbonne
▷ Institute for Mathematical Economics, Bielefeld University, Germany
- United Nations University** 08–10/2022
▷ Visiting researcher, 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 2 October 2025
▷ Supervisors: AGNIESZKA RUSINOWSKA and MANUEL FÖRSTER
▷ Chair: PHILIPPE BICH
▷ Reviewers: 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 & PREPRINTS

- Network-based allocation of responsibility for greenhouse gas emissions
VAN DEN ENDE, R., MANDEL, A., RUSINOWSKA, A.
Social Choice and Welfare • 2025, 66, pp.423–472.
- Diffusion in dynamic networks with time-varying inputs to allocate responsibility
VAN DEN ENDE, R., LAPLACE MERMOUD, D.
arXiv preprint arXiv.2301.02728 • 2025
- 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

WORK IN PROGRESS

- Strategic behaviour under network-based responsibility for greenhouse gas emissions
VAN DEN ENDE, R.
- Non-normality and tipping points in production networks
VAN DEN ENDE, R., LEDOUX, B., MONTAGNANI, S.

TALKS

▷ Invited

1. Janeway Institute PhD workshop on Economic Networks – Cambridge, UK, 2025
2. [Complexity Economics](#), Institute for New Economic Thinking – Oxford, UK, 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, L1 in applied mathematics and computer science for social sciences • 48h • [in French]
- ▷ Computer science: Python programming 2 2024–2025
Université Paris 1 Panthéon-Sorbonne, L1 in applied mathematics and computer science for social sciences • 48h • [in French]
- ▷ Special relativity 2018–2019
University of Amsterdam, L1 in Natural and Social Sciences • 32h

FUNDING

- ▷ Marie Skłodowska-Curie doctoral fellowship, funded by the Horizon 2020 programme of the European Union (2021)
- ▷ Conference grant from the Association pour le Développement de la Recherche en Économie et Statistique (ADRES) (2025)

REVIEWING

- ▷ Physica D: Nonlinear Phenomena

CONFERENCE ORGANISATION

- ▷ Logistical support, [28th Coalition Theory Network](#) conference – Paris, 2025
- ▷ PhD representative, EPOC network (2021–2024)
- ▷ Co-organiser, [International Doctoral Workshop](#) – Venice, 2024
- ▷ Chair of the committee, Interdisciplinary Conference Amsterdam (ICA) – Amsterdam, 2016