

ROSA VAN DEN ENDE

Postdoctoral Researcher
RPTU Kaiserslautern-Landau
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RESEARCH INTERESTS

Economic theory, environmental economics, graph and network theory, game theory, fairness and allocation, climate policy, complex systems, early warning systems, tipping points.

EXPERIENCE

Postdoctoral Researcher 09/2026 - Present

- ▷ RPTU Kaiserslautern-Landau
- ▷ Chair of Environmental Economics, with Prof. Daniel Heyen
- ▷ German Research Foundation (DFG) project on designing early warning systems for tipping points

Young Associated Researcher 04/2026 -09/2026

- ▷ Centre d'Économie de la Sorbonne, Université Paris I Panthéon-Sorbonne

Economic Analyst 10/2025–02/2026

- ▷ European Commission, Directorate-General for Economic and Financial Affairs (DG ECFIN)
- ▷ Trainee as part of the five-month Bluebook Programme

Teaching and research fellow (ATER) 09/2024–08/2025

- ▷ Centre d'Économie de la Sorbonne, Université Paris I Panthéon-Sorbonne

Doctoral Researcher 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
- ▷ Visiting researcher, Institute for Environment and Human Security ([UNU-EHS](#)) (08–10/2022)

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
▷ <i>University of Amsterdam and Vrije Universiteit Amsterdam</i>	
Bachelor of Science , Beta-gamma (Natural and Social Sciences)	2018
▷ <i>University of Amsterdam</i>	

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
- ▷ Non-normality and tipping points in production networks
with LEDOUX, B., and 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, the 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

- ▷ Algorithms and Python programming 1 2024–2025
Université Paris I Panthéon-Sorbonne, BSc in applied maths / computer science • 48h • [in French]
- ▷ Algorithms and Python programming 2 2024–2025
Université Paris I Panthéon-Sorbonne, BSc in applied maths / computer science • 48h • [in French]
- ▷ Special relativity 2018–2019
University of Amsterdam, BSc 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
- ▷ Journal of Economic Dynamics and Control

CONFERENCE ORGANISATION AND COLLECTIVE RESPONSIBILITIES

- ▷ Logistical support, [28th Coalition Theory Network](#) conference – Paris, 2025
- ▷ PhD representative, EPOC network, 2021–2024
- ▷ Co-organiser, [International Doctoral Workshop](#) – Venice, 2024
- ▷ Logistical support, [22nd Annual Conference of the Society of Economic Theory](#) – Paris, 2023
- ▷ Chair of the committee, Interdisciplinary Conference Amsterdam (ICA) – Amsterdam, 2016