

ROSA VAN DEN ENDE

PhD candidate in Mathematical and Environmental Economics
Université Paris I Panthéon-Sorbonne, Universität Bielefeld

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RESEARCH INTERESTS

Environmental allocations, network theory, game theory, climate policy, economic theory.

PROFESSIONAL EXPERIENCE

- 2021 - **Doctoral Fellow in Applied Mathematics and Economics**
Centre d'Économie de la Sorbonne, Paris
Institute for Mathematical Economics, Bielefeld
EU MSCA programme Economic Policy in Complex Environments ([EPOC](#)).
- 08-10 / 2022 **Visiting Scientist**
United Nations University, Institute for Environment and Human Security (UNU-EHS)
Developing a decision-making tool for climate adaptation.
- 2020 - 2021 **MSc Research Assistant**
Institute of Theoretical Physics, University of Amsterdam
Research project on foundational quantum mechanics.
- 2019 - 2020 **Consultant & Managing Director**
The Young Consultant
Non-profit consulting firm fully run by students.
- 04-08 / 2018 **BSc Research Assistant**
National Institute of Subatomic Physics (NIKHEF), Amsterdam
Acoustic detection of ultra-high energy neutrinos.

EDUCATION

Université Paris I Panthéon-Sorbonne & Universität Bielefeld

- Joint doctorate, Applied Mathematics and Economics (2024 (expected)).
 - Supervisors: AGNIESZKA RUSINOWSKA and MANUEL FÖRSTER .
 - Title: “Network-based measures of climate risks and liabilities”.

University of Amsterdam

- Master of Science, Physics and Astronomy: Theoretical Physics (2021).
 - Courses in a.o. quantum (field) theory, string theory, condensed matter theory, general relativity.
 - Extracurricular courses in philosophy and environmental science.

- Thesis title: “*Making the unspeakable speakable: Spontaneous Unitarity Violations and Bell’s Theorem*”.
- Bachelor of Science, Natural and Social Sciences (*Bèta-gamma*) (2018).
 - Interdisciplinary programme, major in Physics.

PUBLICATIONS / WORK IN PROGRESS

- VAN DEN ENDE, R., MANDEL, A., RUSINOWSKA, A., “Network-based allocation of responsibility for GHG emissions”. (*Currently under review*) [HAL preprint](#).
- VAN DEN ENDE, R., LAPLACE MERMOUD, D. “A responsibility value on digraphs.” (*Work in progress, subject to change*) [preprint](#).
- MUKHERJEE A., GOTUR, S., AALBERTS, J., VAN DEN ENDE, R., MERTENS, L., VAN WEZEL, J. “Quantum state reduction of general initial states through spontaneous unitarity violation”. *Entropy* 2024, 26(2), 131. [doi](#)

CONFERENCES AND SEMINARS

Upon invitation

1. [Complexity Economics Seminar](#), Institute for New Economic Thinking - Oxford, United Kingdom, January 31, 2024
2. 22nd annual conference Society for the Advancement of Economic Theory ([SAET](#)) - Paris, France, July 17-21, 2023
3. 29th International Conference Computing in Economics and Finance ([CEF](#)) - Nice, France, July 03-06, 2023
4. [NEGOCLIM](#): Modeling and Simulating Climate Negotiations - June 2023 Workshop - Paris, France, June 19, 2023

Conferences per application

5. 18th European Meeting on Game Theory ([SING](#)) - Messine, Italy, June 26-28, 2023
6. 26th Annual Coalition Theory Network Conference ([CTN](#)) - Bielefeld, Germany, May 15-16, 2023

Seminars

7. [Networks & Games Seminar](#), Université Paris I Panthéon-Sorbonne - Paris, France, March 2023
8. BiGSEM Colloquium, Bielefeld University - Bielefeld, Germany, January 2023
9. 17th BiGSEM Doctoral Workshop on Economics and Management - Bielefeld, Germany, December 12-13, 2022

OTHER RESPONSIBILITIES

- Student representative of EPOC.
- Co-organizer of the [International Doctoral Workshop](#) taking place in Venice in March 2024.