

I am a third-year doctoral candidate at Maastricht University. My PhD project investigates how public narratives surrounding extreme weather events interact with policy responses and firm behavior. The research draws on methods from natural language processing, computational social science, agent-based modelling, and climate communication.

## Education

TU Delft

### MSc. Engineering and Policy Analysis (Honours)

Aug 20-Aug 22

- Specialised in Modelling and Simulation of complex adaptive systems.
- Acquired key Data science, analytics, policy analysis and actor strategy skills.
- Followed the Honours track with a focus on strategic problem-solving.

R.T.M. Nagpur

### Bachelor of Mechanical Engineering

University

Jul 11-Jul 15

- Graduated with First Division.
- Published a white paper on taking a systems approach to improve the efficiency of a flux production unit in Nagpur.

## Work Experience

Maastricht

### Doctoral Candidate

University

Feb 23- Present

- Investigating the interplay between public narratives on extreme weather events, policy responses, and firm behaviour.
- Methodological approach combines natural language processing, agent-based modelling, and computational social science.

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### Energy Modeling Intern

Feb 22-Aug 22

- Developed an agent-based model of two energy communities for performing virtual experimentation and supporting decision-making under uncertainty.
- A two-step policy plan was formulated to reduce grid dependence through demand response and behind-the-meter storage in Dutch energy communities.

TPM

### Research Assistant - Spatial (GIS) Analysis

Resilience lab

Apr 21-Feb 22

- Worked on the EU's HERoS project focused on improving urban resilience and devising practical advice to improve crisis governance during pandemics.
- Curated location data and performed spatial analysis to create a simulation model of the Hague.
- Presented key findings at the International Conference of Computational Social Science 2021.

Bask

### Research Associate - Energy Policy

Research

Foundation

Jun 18-Jul 20

- Implemented the systems thinking approach to increase consumer participation in the electricity tariff determination in Rajasthan, India.
- Led multiple research-driven projects to improve regulatory governance in electricity distribution in coordination with local DSOs.

Boond

### Design Engineer - Solar Microgrids

Dec 16-Nov 17

- Electrified 300 households through solar microgrids in Uttar Pradesh and Rajasthan, India.

## Working Paper

### Exploring Narratives around Extreme Weather Events

Anmol Soni, Tina Comes, Giulia Piccillo and Tania Treibich (2025)

This paper explains how newspaper narratives surrounding May 2023 flooding of the Emilia-Romagna align with public sentiment and climate risk perception. At the macro level, actor roles are extracted from news paper articles published over a year long period covering the floods. Micro-level narratives are captured through an online survey conducted in the Emilia-Romagna region of Italy. The findings reveal a misalignment between macro-level portrayals of actor roles and micro-level perceptions, leading to a potential dissonance between public sentiment and media representations of the issue.

## Skills

### Python

programming language



### Data Analysis & Visualisation

Pandas, Matplotlib, Plotly



### System Dynamics

Vensim



### Agent Based Modeling

Mesa, Netlogo



### Version Control

Git & GitHub



### Microsoft Office

Word, Excel, etc.



## Interdisciplinary Projects

RIVM

Dec 21-Feb 22

### QCONNECT: Adoption of circularity in the Dutch automotive industry

- Developed an agent-based model for evaluating and exploratory analysis of circular policies in the Dutch automotive sector.

Dentatus

Nov 20-Nov 21

### Integration of geothermal energy in Waalhaven area of Rotterdam

- Led an interdisciplinary team of three students for creating a strategic roadmap for the integration of geothermal energy in Waalhaven, Rotterdam.
- Performed multi-criteria decision-making and conducted risk & uncertainty analysis for maximising the co-benefits.
- Demonstrated effective leadership and communication skills rooted in appreciation and respect in a diverse multi-cultural team.

## Co-curricular Courses

March 2022

### Intangible Matter of Spaces

Alta Scuola Politecnica

- Gained insights into impact investing, co-creation and value generation through commons.
- Hands-on experience in investment pitches, stakeholder engagement and negotiations.

November 2019

### Energy Economics and Policy

Indian Institute of Technology

- Learned macro economics principles governing demand management and policy regime in the electricity sector.

November 2019

### Python for Data Science

Indian Institute of Technology

- Learned basics of python programming for data analysis and visualisation.

December 2018

### Energy Efficiency in Emerging Economies

International Energy Agency

- Gained international insights into planning and implementing energy efficiency policies in emerging economies.

## Extracurricular | Volunteering

Feb 22-Aug 22

### TPM Faculty Ambassador

Delft Global Student Club

- Enhanced communication skills by promoting research opportunities in the global south across the TPM Faculty.
- Held an editorial position for publishing the quarterly magazine of the student club.

Nov 20-Nov 21

### Treasurer | Convenor Events Committee

Dentatus

- Worked with a team of motivated students and managed the account of the study association.
- Organised social events for rebuilding the community feeling in cohort amidst the COVID lockdown.