






Alessandro Taberna

Enthusiastic and dedicated researcher with a strong passion for environmental economics modeling and data science.



Education

- 2019 – 2023  **PhD Candidate; Technical University of Delft.**
Thesis title: *Navigating complexity: agent-based simulations for climate-resilient economies.*
Thesis supervisor: *Tatiana Filavtova.*
- 2016 – 2018  **M.Sc. Economics; Turin University.**
110/110 *cum laude*
Thesis title: *Brexit, Labor and Migration: an Agent-Based Model.*
Thesis supervisor: *Pietro Terna.*
- 2013 – 2016  **B.Sc. Economics; Turin University.**
94/110
Thesis title: *Complementary currencies: a response to economic crisis.*
Thesis supervisor: *Roberto De Battistini.*

Employment History

- 2024 – present  **Postdoctoral Research Fellow; European Institute on Economics and the Environment (EIEE).**
Research Activities on climate risks and adaptation using agent based modeling with a focus on coastal areas.
- 2018 – 2019  **Trainee; European Investment Bank.**
Risk management directorate. Focus on credit risk analysis.

Teaching

- 2019 – 2023  **Assistant in lecturing:**
- Behavioral Management Social science Department, B-IBA , Economics, University of Twente.
 - Introduction to TPM modeling, Policy analysis, Delft University of Technology.
- 2021 – 2022  **Master thesis supervision:**
- Ahmadreza Safaeinia and Ali Cheshomi. “The Impacts of Climate Change on Micro, Small, and Medium Enterprises, and The Factors Influencing The Intention to Flood Risk Reduction and Climate Change Adaptation”. Politecnico di Milano.
 - Jonas Lechner. “Role of household climate change adaptation in reducing coastal flood risk: the case of Shanghai”. Delft University of Technology.
 - Sherman Lee. “Underwater’ Real Estate” Exploring housing market dynamics under severe flooding in Rotterdam”. Delft University of Technology.

Research Publications



Journal Articles

- 1 Taberna, A., Filatova, T., Hadjimichael, A., & Noll, B. (2023). Uncertainty in boundedly rational household adaptation to environmental shocks. *Proceedings of the National Academy of Sciences*, 120(44), e2215675120.
- 2 Taberna, A., Filatova, T., Hochrainer-Stigler, S., Nikolic, I., & Noll, B. (2023). Economic implications of autonomous adaptation of firms and households in a resource-rich coastal city. *Scientific report*, 14, s41598-023-46318-2.
- 3 Taberna, A., Filatova, T., Roventini, A., & Lamperti, F. (2022a). Coping with increasing tides: Evolving agglomeration dynamics and technological change under exacerbating hazards. *Ecological Economics*, 202, 107588.
- 4 Noll, B., Filatova, T., Need, A., & Taberna, A. (2021). Contextualizing cross-national patterns in household climate change adaptation. *Nature Climate Change*, 01222, 1–6.
- 5 Taberna, A., Filatova, T., Roy, D., & Noll, B. (2020). Tracing resilience, social dynamics and behavioral change: A review of agent-based flood risk models. *Socio-Environmental Systems Modelling*, 2, 17938–17938.



Books and Chapters

- 1 Taberna, A., Filatova, T., Roventini, A., & Lamperti, F. (2022b). Exploring regional agglomeration dynamics in face of climate-driven hazards: Insights from an agent-based computational economic model. In *Advances in social simulation* (pp. 145–160). Springer.

Awards

- 2023  **Fellowship**; Exchange Programme NAVIGATE project held at European Institute on Economics and the Environment (EIEE).
- 2022  **Fellowship**; Young Summer Scientist Programm (YSSP) held at the International Institute of Applied Systems Analysis (IIASA).

Skills

- Languages  Strong reading, writing, and speaking competencies in English and Italian. Learning Dutch.
- Coding  NetLogo, Python, R, SQL, Excel, L^AT_EX.