



Anna Novaresio

Date of birth: 16/02/1988 | **Nationality:** Italian

WORK EXPERIENCE

01/12/2023 – CURRENT Turin, Italy
RESEARCHER CNR-IRCRES

Quantitative and qualitative research activities on the project funded by the Italian Recovery and Resilience National Plan "RAISE - Robots and Artificial Intelligence for socio-economic empowerment", which is aimed at developing and promoting technological solutions able to effectively respond the economic and social needs of the Ligurian territory.

The project intends to foster R&D in these techs for different areas, including health, environmental sustainability, intelligent ports and accessible and resilient smart cities.

Link <https://www.raiseliguria.it>

07/2023 – CURRENT Venezia, Italy
RESEARCH AFFILIATE CENTER FOR AUTOMOTIVE AND MOBILITY INNOVATION (CAMI) OF THE UNIVERSITÀ CA' FOSCARI VENEZIA

Link <https://www.unive.it/pag/40244>

01/02/2023 – 30/11/2023 Turin, Italy
POST-DOC RESEARCHER CNR-IRCRES

Quantitative and qualitative research activities on the project "Osservatorio sulle Trasformazioni dell'Ecosistema Automotive Italiano"

- online survey development
- firm-based database development
- data analysis
- scientific report and articles development
- business and technical scientific meetings
- supervision of an external collaborator in charge of the survey's recall activities

Link <https://www.osservatoriotea.it>

01/10/2022 – CURRENT Turin, Italy
ADJUNCT PROFESSOR IN GREEN ECONOMY UNIVERSITY OF TURIN

Lecturer of the Laboratory in "Green Economy", BSc in 'Economics and Statistics for the Organizations' - Department of Economics and Statistics "Cognetti De Martiis".

The lab aims at providing the students with useful tools to:

- 1) understand the concept of sustainability and green economy through the lens of the economics of innovation and environmental economics;
- 2) examine the growth and the evolution of the scientific literature on sustainability and of the theoretical and technical approaches to the "green economy";
- 3) critically investigate the main policies and industrial strategies to promote the ecological transition and to pursue critical objectives (e.g. carbon neutrality, circularity) in some key sectors (e.g. energy, automotive, agrifood) and relevant areas (e.g. urban, marginal and developing).

01/10/2022 – CURRENT Turin, Italy
ADJUNCT PROFESSOR IN BUSINESS STATISTICS UNIVERSITY OF TURIN

Lecturer of Business Statistics, BSc in 'Business Economics' - Department of Management

Introduction to descriptive and inferential statistics, probability models, statistical techniques and tools and their business applications.

01/02/2022 – 30/09/2022 Turin, Italy

ADJUNCT PROFESSOR IN MICROECONOMICS UNIVERSITY OF TURIN

Lecturer of Microeconomics, BSc in 'Business Economics' - Department of Management
Introduction to the main microeconomics concepts: supply & demand, consumer's theory and producer's theory, economic dynamics and structures (perfect market competition vs monopoly vs oligopoly), market efficiency and market failures.

01/10/2020 – 30/09/2022 Turin, Italy

ADJUNCT PROFESSOR IN SUSTAINABLE MOBILITY UNIVERSITY OF TURIN

Lecturer of the Laboratory in "Sustainable Mobility", BSc in 'Economics and Statistics for the Organizations' - Department of Economics and Statistics "Cognetti De Martiis".

The lab aims at providing the students with useful tools to:

- 1) understand the evolution of the automotive industry through the lens of economics of innovation and environmental economics;
- 2) critically examine sustainable mobility urban policies, analyzing drivers, obstacles, best practices, emergent paradigms and new frontiers;
- 3) investigate social attitudes and dynamics related to the theme, using surveys and descriptive and multivariate statistics.

01/11/2019 – 31/05/2022 Turin, Italy

POST-DOC RESEARCHER UNIVERSITY OF TURIN

Research activities as "Assegnista" and "Borsista di ricerca" on the H2020 project COMETS "COLlective action Models for Energy Transition and Social innovation", investigating features and functioning of bottom-up collective initiatives aimed at promoting the decarbonization and the democratization of the European energy system. The EU-funded project aimed at providing open-access results intended to have positively impact on multiple stakeholders, from energy and non-energy collective action initiatives (CAIs) to SMEs, decision makers and citizens. Specifically, I was in charge of the elaboration of research reports, project deliverables and scientific papers.

Research activities on green innovation patterns in the automotive industry, carried out within the Department of Economics and Statistics "Cognetti De Martiis"

Supervisor: Prof. Patrucco

01/10/2019 – CURRENT Turin, Italy

TEACHING ASSISTANT UNIVERSITY OF TURIN

2022 - 2023 Teaching activities in Digital Economy, BSc in 'Social Innovation, Communication and New Technologies' - Department of Culture, Politics and Society.

2021 - 2022 Teaching activities in Econometrics, BSc Courses in 'Business Economics' and 'Economics and Finance' - Department of ESOMAS

2020 - 2022 Teaching activities related to various economic courses (Macroeconomics, Micro and Business Statistics) - Department of ESOMAS. TA funded by the "Excellence Project" of the department of ESOMAS

2019 - 2022 Teaching activities in Social Statistics and Decisions of Business for the MSc students in Economics and Management - Department of ESOMAS. TA funded by the "Excellence Project" of the department of ESOMAS

Co-supervision of 20+ MSc student per year (2021 - 2022) in the development of their final thesis.

01/04/2017 – 30/07/2017 Turin, Italy

TENDER OFFICER ASSISTANT ITC-ILO

Fundraising and project management activities at PRODEV department.

- Project management: research activities and elaboration of relevant parts of project proposals, coordination with internal and external business partners
- Procurement management: screening and internal dissemination of funding opportunities with main EU and international Donors, draft and management of administrative supporting documents, management of internal financial data

09/2015 – 04/2016 Turin, Italy

PROJECT MANAGER ASSISTANT ENVIRONMENT PARK SPA

Project management and development activities at the Clean Tech department.

- Project Management: elaboration of project proposals in application to EU funding Programs and Public Tenders. The project proposals were mainly focused on eco-innovation issues and written in English, French and Italian. Implementation and monitoring of the ongoing projects and management of the related business activities.
- Research: elaboration of research reports, outlining the state of the art and the market trends of innovative technologies in several industrial sectors, such as automotive and clean tech (water, energy, circular economy)

10/2014 – 04/2015 Turin, Italy

TENDER OFFICER ASSISTANT ITC-ILO

Fundraising and project management activities at PRODEV department.

- Procurement management: screening, identification and internal dissemination of European and international bidding opportunities (DG DEVCO, H2020)
- Project management: background researches and draft of relevant parts of the projects proposals
- Research: elaboration of statistical reports on the bidding trends for the period between 2009 and 2014.

04/2013 – 07/2013 Turin, Italy

ADMINISTRATIVE ASSISTANT METROPOLITAN AREA OF TURIN

Administrative and research tasks at the Environmental Impact Assessment - Urban and Regional Planning department

● **EDUCATION AND TRAINING**

10/2016 – 03/2020

PHD IN ECONOMICS University of Turin

GENERAL COURSES: Advanced Microeconomics, Advanced Macroeconomics, Econometric Theory I-II, Applied Economics, Optimization Mathematical Methods for Economics

CURRICULAR COURSES: Agent-based simulation models for economics, multiple courses on Economics of Innovation

Field of study Economics of Complexity - ECOM |

Thesis Three essays on innovation and green economy. Supervisor: Prof. Guerzoni

09/2011 – 07/2014

MSC IN DEVELOPMENT, ENVIRONMENT AND COOPERATION University of Turin

Field of study Environmental Economics and Policy | **Final grade** 110/110 with honors |

Thesis Economic evaluation of the impacts of anthropic activities on coastal ecosystems: the application of the benefit transfer to the case of a coastal wet area in the Western area of Liguria. Supervisor: Prof. Dalmazzone

09/2007 – 12/2010

BSC IN INTERNATIONAL STUDIES University of Turin

Field of study International Relations, Environmental Economics | **Final grade** 110/110 with honors |

Thesis The Ecolabel: theoretical analysis and experiences of application. Supervisor: Prof. Dalmazzone

09/2003 – 07/2007

HIGH SCHOOL DIPLOMA WITH EMPHASIS ON HUMANITIES Liceo Classico Baldessano Roccati - Carmagnola (TO)

Ancient Greek (grammar and literature), Latin (grammar and literature), Italian language and literature, History and Philosophy, Math & Physics, English Language (B2 Cambridge Certificate).

Average GPA: 8/10

Winner of the "Diventiamo Cittadini Europei" students' competition promoted by the Piedmont Regional Council, for the development of an essay on the role of the EU institutions in the dynamics of globalization, with a focus on the fight against the international terrorism. Award: study tour to Amsterdam and the International Institutions of The Hague.

Final grade 82/100

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	B2	B2	B2	B2	B2
GERMAN	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Microsoft Office | Microsoft Word | Microsoft Excel | Google Drive | Latex | STATA | R

● ADDITIONAL INFORMATION

PUBLICATIONS

[The Italian energy transition from the bottom-up: a comparative and participatory investigation with the Italian energy collective initiatives' ecosystem](#)

– 2023

Novaresio, A., & Arrobbio, O. (2023). The Italian energy transition from the bottom-up: a comparative and participatory investigation with the Italian energy collective initiatives' ecosystem. *CULTURE DELLA SOSTENIBILITÀ*, 31.

Energy collective initiatives (ECIs) are gaining increasing policy and scholarly attention for the role they can play in steering the process of the energy transition from the bottom up.

By using a participatory research method inspired by the Consortium Benchmarking, the authors investigate a reasoned selection of Italian ECIs pursuing a double goal: the ECIs characterization with respect to their current and future organizational nature and the identification of a common ground for ECIs' consolidation and expansion as well as the support to national ECIs' evolution and scaling up.

The study reveals that, despite the differences in their legal forms and purposes, the Italian ECIs are able to offer not only an alternative business model, but also a radically different organizational scheme in residential and/or occupational terms, as well as in the decision-making process, which can be inspired by the consensus principle.

A relevant policy consideration is that Italian ECIs look attentively to renewable energy communities (RECs) as a promising tool to foster the decarbonisation and democratization of the Italian energy system, even though ECIs' interaction with these innovative actors and their adaptation to the new norms ruling the European energy system pose some intriguing challenges.

Culture della Sostenibilità - International Journal of Political Ecology and Environmental Culture

How can energy become a community endeavor in Europe? Consortium benchmarking strategies for the mobilization of collective action initiatives

– 2023

Gregg, J. S., Bolwig, S., Sciallo, A., Arrobbio, O., Hubert, W., Ivask, N., ... & van der Waal, E. (2023). How can energy become a community endeavor in Europe? Consortium benchmarking strategies for the mobilization of collective action initiatives. *Energy Research & Social Science*, 98, 103005.

A consortium benchmarking (CB) approach was used to conduct a study on development mechanisms and best practices for Collective Action Initiatives (CAIs) in the energy sector. National research teams (NRTs) were created in six European countries (Belgium, Estonia, Italy, the Netherlands, Poland, and Spain) each of which consisted of approximately five CAIs, as well as other stakeholders, governing bodies, and academic researchers. In total, 32 CAIs served as case studies. Each of the NRTs co-created research questions and methodologies to address the issues relevant to the case study CAIs. The results were then synthesized with respect to the dimensions of CAI mobilization (alignment of interests and engagement, organization and governance, resources, external actors and institutions, and policy and regulation) and how they contribute to the development and proliferation of CAIs. From the empirical findings, we reflect on the usefulness of the CB approach as a tool for engagement in research and derive recommendations for how CAIs can be better supported. We find that the CB approach was effective at engaging the CAIs in the research and strengthening their networks. Such networks, as well as collaboration with external actors, are vital for the success of CAIs through assisting with specialized skill sets, developing strategies for attracting a representative and diverse membership base, for securing financing, and for gaining political and social legitimacy. These networks can provide critical support to CAIs to navigate the dimensions of mobilization and allowing for the CAI to flourish.

Energy Research & Social Science

Patterns of green innovation in the automotive industry: empirical evidence from OECD countries 1990-2018

– 2022

Novaresio, A., & Patrucco, P. P. (2022). Patterns of green innovation in the automotive industry: empirical evidence from OECD countries 1990-2018. *International Journal of Automotive Technology and Management*, 22(4), 450-484.

The aim of the paper is to identify patterns of specialisation in different “green” technologies in the automobile industry. The paper focuses on OECD countries over the last 30 years and analyses the role of systems of innovation in spurring and directing green innovation patterns in the industry, testing which systemic factors drive the detected trends of green specialisation.

The study builds upon a large panel dataset based on green patent data in OECD countries from 1990 to 2018, which allow to depict green specialisation trends for three automotive technologies: green internal combustion engine (“brownish”), hybrid (“greenish”), electric and fuel cell vehicles (“green”).

The study reveals that only Japan shows a persistent specialisation in all the three automotive technological solutions and few countries (Italy, France, Sweden, South Korea and USA) are catching up in the cleaner technological domains from 2008 onwards. The majority of the OECD countries display persistent negative levels of specialisation in all the three technological areas.

The econometric analysis, based on a multinomial logit model, shows that the greening of the automotive industry is led both by “economies of specialisation” through private R&D investments, and by “learning economies” triggered by economic policies oriented towards sustainability goals. The complementarity of the two factors highlights the complexity of the technological and environmental transition and calls for a systemic approach.

International Journal of Automotive Technology and Management

[Prove di Apea. Strumenti per l'evoluzione verso le Aree produttive ecologicamente attrezzate. Il caso di Pescarito](#)

– 2014

A. Novaresio, R. Bertoldo, S. Capello, E. Clerico, V. Meneghello, E. Seidita, "Infrastrutture: lo stato attuale ed i possibili sviluppi",

Chapter 6 in "Prove di Apea. Strumenti per l'evoluzione verso le Aree produttive ecologicamente attrezzate. Il caso di Pescarito" Authors: Beltramo Riccardo, Vesce Enrica. Freebook Ambiente online, Edizioni

Prove di Apea presenta i risultati di una ricerca svolta nell'ambito del corso in Ecologia industriale e certificazione integrata dell'Università degli studi di Torino sull'area industriale torinese di Pescarito, colpita dalla crisi economica e affetta dai problemi ambientali tipici delle aree produttive. Partendo dall'analisi della zona, i vari capitoli illustrano approfondiscono gli ambiti di intervento in relazione alla tipologia di imprese insediate, alle soluzioni di gestione adottate, alle infrastrutture presenti e alle possibilità di finanziamento cui l'area potrebbe accedere

Edizioni Ambiente

WORKING PAPERS

Novaresio A. (2023). Eco-innovations and labor in the European automotive industry: an econometric study. CNR-IRCrES Working Paper 4/2023

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Link <https://www.ircres.cnr.it/index.php/it/organizzazione?id=501>

Novaresio A. & Patrucco P. P. (2023). Innovation and trade in the automotive industry: evidence from European countries (1990-2018). EST - Working Paper Series - Department of Economics and Statistics "Cognetti De Martiis"

Link https://www.est.unito.it/do/home.pl/View?doc=WP_Dipartimento.html

CONFERENCES AND SEMINARS

27/06/2023 – 30/06/2023 – Brussels

GERPISA Colloquium 2023 Two papers accepted and presented at the GERPISA Colloquium 2023, Université Libre de Bruxelles, Brussels.

The paper "The greening of the European automotive industry and its labor effects: an empirical analysis" has been awarded the SPECIAL MENTION at the 10th edition of the Young Author's Contest of the GERPISA Colloquium and published in the International Journal of Automotive Technology and Management (IJATM).

Link <https://www.gerpisa.org/node/7475>

10/06/2023 – 12/06/2023 – Carcavelos, Lisbon

DRUID23 Conference Paper accepted and presented at the DRUID Conference, NOVA School of Business and Economics, Carcavelos, Lisbon.

Link <https://conference.druid.dk/Druid/?confId=66>

07/07/2021 – 09/07/2021 – Rome (online)

18th Conference of the International Joseph Schumpeter Society (ISS) - LUISS Paper accepted and presented at the 18th Conference of the International Joseph Schumpeter Society (ISS), Rome (online event) ISS - LUISS Guido Carli University, Rome. Moderator of a parallel session (online event)

Link <https://iss2020.it/program/>

14/06/2021 – 18/06/2021 – Paris (online)

GERPISA Colloquium 2021 Paper accepted and presented at the GERPISA Colloquium 2021, Gerpisa & ENS University of Paris Saclay, Paris (online event)

Link <https://gerpisa.org/en/node/6479>

06/10/2019 – 09/10/2019 – Turin

Tracking Innovation Trajectories in the Complex Economy - CEST-INET Paper presentation at the Conference 'Tracking Innovation Trajectories in the Complex Economy' CEST-INET, Talent Garden Fondazione Agnelli, Turin

Link <https://inet2019.associazionecest.it/>

HONOURS AND AWARDS

29/06/2023

SPECIAL MENTION at the GERPISA Colloquium 2023 – GERPISA - Le réseau international de l'automobile The paper "The greening of the European automotive industry and its labor effects: an empirical analysis" has been awarded the SPECIAL MENTION at the 10th edition of the Young Author's Contest of the GERPISA Colloquium and published in the International Journal of Automotive Technology and Management (IJATM).

Link <https://www.gerpisa.org/en/node/3705>

10/2016

Three-year Doctoral Scholarship – University of Turin

10/2008

Merit Scholarship – University of Turin - EDISU Piemonte

04/2005

Award "Diventiamo cittadini europei" – Consulta Regionale del Piemonte – Consulta Regionale del Piemonte Individual essay selected in the regional students' contest "Diventiamo cittadini europei" promoted by the Consulta Regionale del Piemonte.

The contest's focus: investigating the role of the EU institutions in the fight against the international terrorism.

Award: visit tour of Amsterdam and of the International Institutions of The Hague.

Link http://www.consiglioregionale.piemonte.it/attivita/comunicati/2005/06_giugno_2005/olanda.htm

VOLUNTEERING

04/2020 – 10/2020 Assisi

Economy of Francesco (EoF) As a member of the Business in Transition working group, development of two proposals for a new economic model/paradigm inspired by the principles of inclusiveness and sustainability. The proposals were focused on the promotion of sustainable finance solutions (e.g. green microcredit) and the restoration and re-use of abandoned public and religious buildings for collective and social purposes.

Content curator and Communication Manager of the "manifesto" on the role of "Institutions and ecosystems: bottom up initiatives" in the BiT process.

Link <https://francescoeconomy.org/it/>

04/2015 – 06/2015 Milan

Expo Milan 2015 Reception activities during the international event on food sustainability

2011 – 2014 Turin

Manitese Coordinator of a school project on sustainability issues and support to the Christmas activities

Link <https://www.manitese.it/chi-siamo/federazione-mani-tese/associazione-mani-tese-ong-onlus-sede-nazionale-milano/gruppo-torino>

2007 – 2014 Turin

SERMIG - Arsenale della Pace Support to the local and global cooperation activities of the Arsenale and school aid for kids during a Summer Camp (August 2010)

Link <https://www.sermig.org/>