



Nathalie Lazaric

Summary

French economist recognized among the 10-15% of authors in France and the EU, and among the 4% of women economists in the world (RePEc), I am **CNRS Research Director**. Within GREDEG (Research Group in Economic and Management Law) UMR 7321 of the University of Côte d'Azur, I co-direct, with Evelyne Rouby, the "Ecological Transition and Organizational Resilience" (TERO) team.

I direct the CNRS thematic network "Waste, Values and Societies" to bring together researchers in Human and Social Sciences, and I am involved in numerous projects on recycling (2 PEPR), a European ABSolEU project and the BIOLOOP project (CNRS) on new biosourced polymers; and collaborates with many disciplines: geography, management, law, chemistry, marine biology and agronomy.

I am currently a Visiting Professor at the University of Gothenburg (U-GOT KIES) in Sweden (10%). I participate in numerous initiatives aimed at citizens, in scientific debates within the framework of COP 25 and in public debates, in the press, on radio and television to disseminate and transmit my knowledge.

I have published over 55 articles in leading journals, such as Ecological Economics, Energy Policy, Climate Policy, Research Policy, Journal of Institutional Economics, Industry and Innovation, Regional Studies, Journal of Evolutionary Economics, among others.

I am involved in several national and European projects on energy consumption, sustainable issues, behavior change and recycling. In France, I have led numerous projects on electricity consumption behavior, I am currently involved in numerous field experiments in recycling and supervise doctoral students and postdocs in this field.

The **key words** of my research: ecological transition, waste recycling, energy consumption, new plastics, agricultural transition, organizational obstacles, individual habits.

Personal details

Date of birth: August 3, 1965, Neuilly, France married, 2 children.

Professional address: UNS – CNRS – GREDEG, 250, rue Albert Einstein, Campus Sophia Antipolis Building 2, 06560 Valbonne, France; Tel: +33/0 4 93 95 43 88

email: nathalie.lazaric@univ-cotedazur.fr

Website: www.nathalie-lazaric.fr

1) Academic career

2020–now: Visiting Professor at the University of Gothenburg, Sweden (10%)

2010–now: CNRS Research Director (DR1) at GREDEG (Research Group in Economic and Management Law) UMR 7321, Université Côte d'Azur, France

2001–2010: CNRS Researcher, GREDEG CNRS Sophia Antipolis, France

2000–2001: Research Delegation at CNRS, Latapses CNRS Sophia Antipolis, France

1993–2000: Lecturer, University of Technology of Compiègne, (UTC), France.

2) Teaching and doctoral supervision (last 5 years)

2024: Ecological innovations: challenges for the next decade , Phd Training, NORSI IEFU 106, University of Gothenburg, Sweden.

2019-2023: Circular economy: definition, obstacles and various implications , Master 2: Industrial Development at Université Côte d'Azur (10 h)

2017-2023: Ecological innovations and territories, Master 2 Innovation management and regional cluster development (3 p.m.)

2017-2021: New economic models in ecological innovations : 15 hours in the Master 1 Economics and management of ecological innovation

Thesis and post-doc supervision

Since the start of my career, I have supervised 12 doctoral students, participated in 35 thesis juries in France and abroad and 12 HDR (Habilitation to Direct Research) juries.

Currently, I supervise 6 theses

– David Broussard: " Blue finance: opportunities and challenges when allocating resources for the restoration and preservation of marine ecosystems ", Cifre thesis co-directed with Cécile Sabourault (ECOSEAS).

- Amal Ben Khaled: " Energy transition, institutional governance and environmental policies ", thesis co-directed with Rami Ben Haj Kacem.

- Qiaoyu Sun: "The internationalization process of innovative startups – Action research in "Kubator China ", the first Sino-French incubator" Cifre thesis.
- Camille Villard: " New polymers in renewable energies and recycling processes " (with Sébastien Livi as INSA Lyon CNRS thesis co-supervisor), CNRS thesis.
- Julie Marty-Gastaldi: " Emergence of new marine protected areas in urban areas: construction and negotiation of commons at the local scale " (with Benoit Dérijard as co-supervisor - ECOSEAS, Métropole Nice thesis.
- Zoé Burtschell: " Hospital waste management ", Thesis funded by PEPR SO RRYL, co-directed with the University of Bordeaux.

2 Post Doc under my direction in 2024

- Pedro Lopez Merino: "Modeling scenario for agriculture in the local context and local actors", TEFOR Project (TEritorial FOod Resilience)
- Imen Bouhlel: "Modeling ecological innovation in ABS polymers and recycling processes", European project ABSolEU

3) Distinctions and collective responsibilities

Top 4% Women Economists (RePEc)

Top 10-15% Authors in France and the EU

Google Scholar citations: 3967

h-index: 33, h i10 index: 62.

Scientific and editorial responsibilities

2024: Appointed member of Section CID 53 CNRS Sciences in Society .

2024: Member of the scientific council of Academy 3 "Space, Environment, risks and resilience" of the University of Côte d'Azur,

2023–now: scientific animation and management of the SHS CNRS thematic network (ex GDR) "Waste, Values and Societies".

2022-2023: Co-leader of the TERO team within GREDEG (Ecological Transition and Organizational Resilience), 8 permanent staff and 13 doctoral students and Post Doc.

2022-now: Member of the MARRES Federal Research Institute of Marine Resources of the University of the Côte d'Azur.

2016-2023: President of EAEPE (European Association for Evolutionary Economics)

2019-now: Editor of the journal REPE- Review of Evolutionary Political Economy

2003-now: Guest editor: Industrial and Corporate Change, Journal of Evolutionary Economics, JOIE, Organization Science, Revue Economique.

2014-now: Associate Editor of the Journal of Evolutionary Economics

2014-now: Expert for the ANRT (National Agency for Research and Technology); ANR (National Research Agency); ADEME (Environment and Energy Management Agency) and the European Commission.

2010-now: Reviewer in the following journals: Industrial and Corporate Change, Organization Science, Academy of Management Journal, Journal of Evolutionary Economics, JOIE, Research Policy, Industry and innovation, Economie Appliquée, RERU, Revue Economique, Cambridge Journal of Economics, Regional Studies, Journal of Management Studies, Structural and Dynamic Change, Industry and Innovation, Journal of Business Research, Applied Economics, Economies and Societies, Revue de la Regulation, Revue d'Economie Industrielle.

4) Contract management since 2010

2023-2026: PEPR (Priority Research Equipment Program) A Society of Reuse and RecYcLing? (SO RRYL). Coordinated by JB. Bahers (University of Nantes), direction of task 2 " Consumer behavior, new role for public and private actor " N. Lazaric (Université Côte d'Azur).

2023-2026: PEPR Household Waste. Coordinated by Ligia. Barna and P. Guiraud (INSA Toulouse) Y. Chalamet (UJM Saint-Etienne), direction of axis 5 "Regulation and standardization".

2021-2025: European project H2020 ABSolEU (Paving the way for an ABS recycling revolution in the EU). PI: UCA (Nathalie Lazaric and Nathanael Guigo from the Institute of Chemistry of Nice). HORIZON-CL4-2021-RESILIENCE-01-Project: 101058636 -Partners UCA (PI), CNRS, BIC, LEGO, Volvo Cars, Trinseo, Galloo, RISE, Prospex Institute, Standarder, Jotne (funds: 7,657,022.00 euros)

2022-2025: TEFOR (TErritorial FOod system Resilience: co-construction of tomorrow's agriculture scenarios), Research Consortium in Economics, geography, agronomy and participatory sciences, Funded by Academy 3, IDEX ANR, University of the Côte d'Azur

2021-2024: BIOLOOP -Laboratory of new biosourced polymers for a circular economy. -CNRS PRIME. With Valérie Massardier UMR 5223 IMP (Institute of Polymeric Materials), and Olivier Brette UMR 5206 TRIANGLE, INSA Lyon;

2017-2020: SMART LOOK: Learning by looking –uses and diffusion of Energy Monitoring Devices in Monaco, funded by SMEG (Société Monégasque d'Electricité et de gaz) (190,000 euros).

2014-2016: GRECOD2, Inequalities and sustainable consumption, with Jean Belin (University of Bordeaux IV), Ministry of Ecology and Sustainable Development

2011-2013: TICELEC – IT for sustainable behaviors in electricity consumption (funded by Région PACA, ADEME, Conseil Général 06).

2010-2013: GRECOD (Research Group on Sustainable Consumption: A study of ecological consumption profiles -), ADEME and the University of Bordeaux

5) Publications (without book chapters)

Book

2010: Evolutionary economic theories -, Repères, Paris, Discovery.

Book publishing

2012: Handbook of Knowledge and Economics, (2012) Edward Elgar, London, with Arena R. and Festré A.

2009: Organizational routines: advances in empirical research, Edward Elgar, Cheltenham, with M. Becker

2003: Knowledge, Learning and Routines, Critical Studies in Economic Institutions, 2 Volumes, with E. Lorenz

1998: Trust and Economic Learning, Edward Elgar, London, with Edward Lorenz.

Scientific articles (55 articles)

2023: Fateh Belaid, María-Eugenia Sanin and Nathalie Lazaric . Editorial: Energy efficiency and residential energy consumption: Current Challenges, Policies, and Emerging Trends, Frontiers Energy Research, Sustainable Energy Systems , Volume 11.

2023: Valérie Massardier, Naima Belhaneche-Bensemra and Nathalie Lazaric . Editorial: Alternative building blocks and new recycling routes for polymers: Challenges for circular economy and triggers for innovations, Frontiers Material, Sec. Polymeric and Composite Materials , Volume 10, February 14.

2023: Léa Barbault, Olivier Brette, Nathalie Lazaric , Valérie Massardier and Valérie Revest. Bio-based Plastics: a 'Sustainable' Alternative for the Plastic Industry? : International Journal of Environmental Sciences & Natural Resources, Opinion Article , Volume 31 Issue 5 – March.

2022: Baldessarelli, Giada, Lazaric, Nathalie , Pezzoni, Michele. Organizational routines: Evolution in the research landscape of two core communities, Journal of Evolutionary Economics , 32 (4), 1119-1154.

2022: Lazaric Nathalie and Toumi Mira, Reducing consumption of electricity. A field experiment in Monaco with boosts and goal setting , Ecological Economics , 191, 107231

2021: Parmentier Cajaiba Aura, Lazaric Nathalie and Cajaiba Santana Giovany. The effortful emergence of routines: Binding old and new paradigms together, Journal of Evolutionary Economics, 31 (1), pp. 33-63.

2020: Belaïd Fateh, Ben Youssef Adel and Lazaric Nathalie . Scrutinizing the rebound effect for French households using quantile regression and data from an original survey, Ecological Economics , 176, pp.106-255

2020: Attour Amel, Baudino Marco, Krafft Jackie and Lazaric Nathalie . Determinants of smart energy tracking application use at the city level: Evidence from France, Energy Policy, 147.111866.

- 2020: Attour Amel and Lazaric Nathalie : From knowledge to business ecosystems: emergence of an entrepreneurial activity during knowledge replication, *Small Business Economics* , 54, pp. 575-587.
- 2020: Cincotti Silvano, Elsner Wolfram, Lazaric Nathalie , Nesvetailova Anastasia and Stockhammer Engelbert: Evolutionary Political Economy inaugural issue, part 2. Review of Evolutionary Political Economy , 1, pp. 145-148
- 2020: Cincotti Silvano, Elsner Wolfram, Lazaric Nathalie , Nesvetailova Anastasia and Stockhammer Engelbert, Towards an evolutionary political economy, *Review of Evolutionary Political Economy* , 1, pp.1-12
- 2020: Lazaric Nathalie , Le Guel Fabrice, Belin Jean, Oltra Vanessa, Lavaud Sébastien and Douai Ali. Determinants of sustainable consumption in France: the importance of social influence and environmental values, *Journal of Evolutionary Economics* . 30, pp. 1337-1366.
- 2020: Lazaric Nathalie , Tridico, Pasquale and Fadda Sébastiano. Governing structural change and sustainability through (new) institutions and organizations, *Journal of Evolutionary Economics* , 30, pp. 1267–1273
- 2019: Belin Jean, Guille Marianne, Lazaric Nathalie and Mérindol Valérie. Defense Firms Adapting to Major Changes in the French R&D Funding System, *Defense and Peace Economics* , 30 (2) pp.142-158.
- 2017: Kendel A., Lazaric N. , Maréchal K. What do people 'learn by looking' at direct feedback on their energy consumption? Results of a field study in Southern France, *Energy Policy* , 108, 593-605.
- 2017: Brette O., Lazaric N. , and da Vieira V. Habit, Decision Making and Rationality: Comparing Thorstein Veblen and Early Herbert Simon, *Journal of Economic Issues* , (3), 567-587.
- 2016: Feldman, MS, Pentland, BT, D'Adderio, L., Lazaric, N. Beyond routines as things: Introduction to the special issue on routine dynamics, *Organization Science* , 27(3):505-513.
- 2015: Kendel A., Lazaric N. , The diffusion of smart meters in France: A discussion of empirical evidence and the implications for smart cities in France, *Journal of Strategy and Management* , 8(3) 231-244.
- 2014: Lazaric N. , Raybaut A. "Do incentive systems spur work motivations of inventors in high-tech firms: A group-based perspective", *Journal of Evolutionary Economics* , (24), 135-157.
- 2014: Brette O., Bühler T., Lazaric N., Maréchal K., "Reconsidering the nature and effects of habits in urban transportation behavior", *Journal of Institutional Economics*, (10) 399-426.
- 2014: Ayerbe C., Lazaric N., Callois M., Mitkova L, "The new challenges of organizing intellectual property in complex industries: a discussion based on the case of Thales", *Technovation*, (34) 232-241,

2014: Lazaric N., Jin J., Douai A., Ayerbe C., "Role of Users in the Developing Eco-Innovation: Comparative case research in China and France", *Economies et Sociétés*, series W. n° 15, 455 -476.

2013: Cantner U., Dinopoulos E., Hanusch H., Orsenigo L., Lazaric N., Carlaw K., Fontana R., Mc Cann C., Pyka A., "Obituary: Steven Klepper", *Journal of Evolutionary Economics* , 23(3), 503-505.

2013: Bonnin de Toffoli C. & Lazaric N., 2013, "Sustainable consumption and food security", *Revue Juridique de l'Environnement*, 4, pp 625-635.

2012: Ayerbe C., Lazaric N., Mitkova L., Callois M., "New challenges in the organization of industrial property in complex industries: a discussion based on the Thales case", *Revue d'Economie Industrielle*, (137) 9-41.

2012: D'Adderio, L., Feldman M., Lazaric N., Pentland B., "Special Issue on Routines dynamics, Exploring sources of stability and changes in Organizations", *Organization Science*, 23 (6), 1782-1784.

2011: Lazaric N., "Organizational routines and cognition: an introduction to empirical and analytical contributions", *Journal Of Institutional Economics*, 7(2) June, 147-156.

2011: Lazaric N., Mérindol V., Rochhia. S., "Changes in the French defense innovation system: New roles and capabilities for the Government Agency for Defense, Industry and Innovation, Vol. 18(5), July, 509-530.

2010: Maréchal K., Lazaric N., "Overcoming inertia: insights from evolutionary economics into improved energy and climate policy", *Climate Policy*, (10), 103-119.

2009: Guillou, S., Lazaric N., Longhi, C., Rochhia, S., "The French defense industry in the knowledge management era: a historical overview and evidence from empirical data", Vol. 18 (1): *Research Policy*, 170-180.

2008: Huet F., Lazaric N., "Absorption and interaction capacity: a study of cooperation in French SMEs", *Revue d'économie Industrielle*, n°121, first quarter, 60-75.

2008: Lazaric N., C. Longhi, C. Thomas, "Gatekeepers of Knowledge versus Platforms of Knowledge: From potential to realized absorptive capacity", *Regional Studies*, Vol. 42, (6): 837-852.

2008: Lazaric N., Rochhia S. and Mérindol V., 2008, "Organizational and institutional changes in the defense industry", *Economy and institutions*, special issue on defense economics, Vol. 12 and 13, 31-60.

2007: Lazaric N., A. Raybaut. 2007, "Knowledge, Hierarchy and incentives: Why human resource policy and trust matter," *International Journal of Technology and Globalization*, Vol. 3, (1), 8-23.

2005: Lazaric N., B. Denis. "Routinization and memorization of tasks inside a workshop: an illustration through a case study", *Industrial and Corporate Change*, Vol. 14, (5), 873-896.

2005: M. Becker, Lazaric N., R. Nelson and S. Winter, "Applying organizational routines in organizational understanding change" *Industrial and Corporate Change*, Vol. 14 (5), 775-791.

- 2005: N. Lazaric, A. Raybaut, "Knowledge, hierarchy and the selection of routines: an interpretative model with group interactions", *Journal of Evolutionary Economics*, 15, 393-421,
- 2004: F. Huet., Lazaric N., "Cooperative learning and complementarity of coordination mechanisms: an empirical study, *Economies et Sociétés*, 8, 2073-2103.
- 2004: N. Lazaric, "Book review: Conventions and Structures in Economics Organization: Markets, Networks and Hierarchies", *Journal of Evolutionary Economics*, 15, (4), 121 -124.
- 2004: Lazaric N., "Reconfiguring "communities of practices" through codification of knowledge: The French blast furnace case study", *European Journal of Economic and Social Systems*, vol. 18:61-79.
- 2004: Lazaric N., A. Raybaut, "Knowledge creation facing hierarchy: the dynamics of groups inside the firm, *JASSS Journal of Artificial Societies and Social Simulation* w://jasss.soc.surrey.ac.uk/7/2/ 3/html. Translated into Russian in *Journal Management Digest*
- 2003: N. Lazaric, PA Mangolte and ML Massue, "Articulation and codification of collective know how in the steel industry: some evidence in the French blast furnace", *Research Policy*, 32, 1829-1847.
- 2003: Arena, R and Lazaric N., "The evolutionary theory of economic change of Nelson and Winter: a retrospective economic analysis", *Revue Economique*, Volume 54, March, 329-354.
- 2003: Arena, R and Lazaric N., "Evolutionary theory 20 years later: an introduction", *Revue Economique*, Volume 54, March, 323-329.
- 2003: Becker M., Lazaric N., "The influence of knowledge in the replication of routines", *Applied Economics*, Volume LVI, n° 3, September, 65-94.
- 2002: Lazaric N., PA Mangolte and ML Massue, "Capitalization of knowledge and transformation of organizational routine: the SACHEM case", *Revue d'Economie Industrielle*, n° 101, 4th quarter, 65-86.
- 2001: Lazaric N., B. Denis, "How and why routines change: some lessons from the articulation of knowledge with ISO 9002 implementation in the food industry", *Economies et Sociétés*, n° 6, 585-612.
- 2000: Lazaric N., "The role of routines, rules and habits in collective learning: some epistemological and ontological considerations", *European Journal of Economic and Social Systems*, Vol. 14, no. 2:157-171.
- 2001: Lazaric N., L. Marengo, "Towards a characterization of knowledge and assets created in technological agreements: some empirical evidence in the automobile-robotics sector", *Industrial and Corporate Change*, Vol. 9, no. 2, 53-86.
- 2000: Lazaric N. "Collective learning, routines and skills: riches and aporias of evolutionary theory", *Technologies, Ideologies, Practices*, Vol. 14, No. 1: 31-57.
- 1999: Lazaric N., PA Mangolte, "Routines in practice: some criticisms of the cognitive perspective", *Revista di Economia Contemporanea*, n° 5, Janeiro-Junho: 7-36.

1998: Lazaric N., PA Mangolte: "Routines and organizational memory: a critical questioning of the cognitivist perspective", *International Review of Systems*, Vol. 12, no. 1: 27-49.

1998: Divry C., Lazaric N., 1, "Organizational memory and codification of knowledge", *International Review of Systemics*, Vol. 12, No. 1: 3-11.

1996: Lazaric N., Organizational learning and combinative capacity during technological agreements: some empirical evidence in the Robotic Sector, *International Review of Systems*, Vol. 10, no. 3: 22-40.

1992: Lazaric N., "Origins and development of robotics", *Revue d'Economie Industrielle*, n° 61, 3rd quarter, 54-67.

6) Keynote and guest lectures (2010-now, selection)

Energy crisis in Europe: opportunities for a change in policy making? Plenary Panel EAEPE 08 th September 2022

Evolution, and institutions. Behavior to complexity in Economics, A workshop on Future of Economics, Thapar Institute & The Open University, India, online conference, May 26, 2021.

How to foster energy transition: Results from Southern France? COP25, Plenary, Official Side Event, Madrid, 05 December 2019.

Energy tracking and learning by looking, Conference Cracow University, Poland, 03 December 2019.

Towards a greener economy: obstacles, learning and nudging, AFEP Conference (French Association of Political Economy, 03 July 2019, Lille France

Going towards sustainable consumption, 12th EAEPE Summer School, Roma Tre University, Roma, Italy, 01 July 2019.

Organizational dynamics and routines, Process Strategy Seminar, IAE Toulouse, Toulouse, Feb 27; 2017.

Routines a state of the art, Haas Business School University of Berkeley, California, US; 12-14th December 2016. Co-author M. Becker.

Organizational dynamics and complexity: formal modeling and background theory, 9th EAEPE Summer School "Capital and Labor in an Evolving and Complex Global Economy", Roma Tre University, Roma, Italy, 4-8 July th 2016.

Limits to the entrepreneurship in the energy field: Restricted windows of opportunity for smart meters in France, Workshop "Evolutionary approaches informing research on entrepreneurship and regional development", University of Gothenburg, Gothenburg, Sweden, 9-11th December 2015.

Feedback and Electricity Consumption: analysis and measurement of the levers of change, University of Grenoble, GAEL Seminar. December 18, 2014.

Does a green neighborhood spur sustainable consumption? Theory and evidence from consumer behavior in France, University of Jena, Germany, 18 th June 2014.

Routines reconsidered in an evolutionary framework, Wartensee's Schloss keynote for the Workshop on evolutionary theories, University of St Gallen, Wartensee, Switzerland June 2011.

Disrupting and managing routines in case of drastic changes: the case of French energy policy and sustainable development programs, Manchester Business School, Manchester, October 2011.

Sustainable change and behavioral regularity in consumption, Jena workshop "Economic Change and consumer Behavior" 05 th October 2010.

Evolutionary theories: what type of selection, for what debate in economics? Evo-Eco Seminar (evolution and economy) 2010/2011, IHPST - Institute of History and Philosophy of Science and Technology - University of Paris 1 Panthéon Sorbonne, 10th November 2010.

7) Media intervention and knowledge dissemination

Interventions available on www.nathalie-lazaric.fr/media

Regular media interviews on the energy crisis and new forms of consumption.

Regional media: BFM TV, Nice Matin, Fr 3, Sophia Mag, Ouest France

National media: BFM TV, France Inter, Sciences et Avenir, Marianne

International media: The Economist, Der Spiegel

Dissemination of knowledge: Intervention within the framework of "Sciences for All 06" (Nice remand prison, and municipalities in the department), Science Festivals, Mouans Sartoux Book Festival (Panel on energy October 2022: L energy we reshuffle the cards with Hervé Kempf)