

## Serge Garcia

Born 26 March 1972 in Castres, France

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AgroParisTech - INRAE

BETA (Bureau for Economic Theory and Applications)

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## RESEARCH INTERESTS

- Environmental and natural resource economics (valuation, ecological economics, economic instruments and public policy); microeconomics (production, costs, demand, market structure, pricing, contracts and incentives)
- Applied econometrics: panel data, discrete choice models, spatial econometrics
- Applications: forests, social-ecological systems, ecosystem services, biodiversity and water

## CURRENT POSITIONS

- Senior researcher in Economics, INRA/INRAE, since Jan. 2013; based at BETA since Jan. 2018
- President of FAERE (French Association of Environmental and Resource Economists), since Sept. 2023
- Expert in socio-economic analysis at ANSES (French Agency for Food, Environmental and Occupational Health & Safety), since Jan. 2022
- Scientific Director of the Observatory for the Economy of the Forest (INFRA+ of the I-SITE Lorraine University of Excellence), since 2020
- Coordinator of the “Economics and Social Sciences” thematic action of LabEx ARBRE, then of the interdisciplinary ARTEMIS programme, since 2018

## PREVIOUS POSITIONS

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|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Jan. 2018 - Dec. 2022  | INRAE - BETA, Nancy<br><b>Deputy Director of BETA</b><br>Co-leader, “Energy Transition” WP, IMPACT DEEPSURF project (LUE)                                                                                                                                                        |
| Mar. 2018 - Dec. 2021  | University College Dublin (UCD), School of Agriculture and Food Science<br>Research Fellow, Mar. 2019 - Dec. 2021<br>Visiting Research Fellow, Mar. 2018 - May 2018                                                                                                              |
| Sept. 2005 - Dec. 2017 | INRA - Laboratory of Forest Economics (LEF), Nancy<br><b>Director of LEF, Jan. 2013 - Dec. 2017</b><br><b>Deputy Director of LEF, Sept. 2011 - Dec. 2012</b><br>Senior researcher in Economics, Jan. 2013 - Dec. 2017<br>Research Scientist in Economics, Sept. 2005 - Dec. 2012 |
| Oct. 2002 - Aug. 2005  | ENGREF - Water and Sanitation Management Laboratory, Montpellier<br>Contract Researcher, “Water liberalisation scenarios: An empirical analysis of the evolution of the European water supply and sanitation sectors”, EU Fifth Framework Programme (FP5)                        |
| Oct. 2001 - Sept. 2002 | CIRANO, Montreal, Canada - Postdoctoral Researcher                                                                                                                                                                                                                               |
| Sept. 2000 - Aug. 2001 | Toulouse I University (UTI) - LERNA, Toulouse<br>Temporary Teaching and Research Fellow (ATER) in Economics                                                                                                                                                                      |
| Nov. 1997 - July 2001  | UTI - LERNA, Toulouse - PhD Candidate                                                                                                                                                                                                                                            |

## EDUCATION & ACADEMIC QUALIFICATIONS

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|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2024 | Qualification for Full Professor positions (French CNU, Section 05 - Economics)                                                                              |
| 2011 | Habilitation to Supervise Research (HDR), “Applied Econometrics for Environmental and Natural Resource Issues”, Toulouse I Capitole University               |
| 2002 | Qualification for Associate Professor positions (French CNU, Section 05 - Economics)                                                                         |
| 2001 | PhD in Economics, with unanimous highest honours, “Economic Analysis of Drinking Water Supply Costs”, supervisor: Alban Thomas (INRA), Toulouse I University |
| 1999 | European Diploma in Advanced Quantitative Economics (DEEQA), Toulouse I University                                                                           |
| 1996 | DEA (postgraduate diploma) in Environmental, Natural Resource, Energy and Agricultural Economics, Toulouse I University                                      |
| 1995 | Maîtrise (four-year university degree) in Econometrics, Toulouse I University                                                                                |

## **BIBLIOMETRICS**

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- 43 articles published in peer-reviewed journals since 2001
- 7 book chapters, 1 book review, 2 editorials and 8 knowledge-transfer articles
- Top 25% of economists in France, rank 654 (IDEAS/RePEc, Aug 2026)
- h-index: 25; i10-index: 36; citations: 2,818; most-cited article: 372 citations (Google Scholar, Aug 2026)

## **AWARDS & DISTINCTIONS**

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- Scientific Excellence Bonus (Prime d'Excellence Scientifique), 2014-2017 and 2023-2025
- AFSE PhD Thesis Prize - Special Mention, 2002

## **OTHER SCIENTIFIC & PROFESSIONAL RESPONSIBILITIES**

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### **➤ Current**

- FAERE Executive Board, since 2021
- Editorial Board, PCI Forest & Wood Sciences, since 2020
- Associate Editor, Annals of Forest Science, since 2025

### **➤ Previous**

- Scientific Committee, GIP ECOFOR (Forest Ecosystems), 2013-2026
- Executive Board member and co-leader of the "Energy Transition" WP, IMPACT DEEPSURF project, 2018-2022
- Leader of the "Environment, Forests and Energy" working group at BETA, 2021-2022
- Scientific Committee, BGF research programme (Biodiversity, Forest Management and Public Policy), 2014-2020
- Scientific Committee, AGREV 3 research programme (Agriculture-Environment Vittel), 2015-2020
- Specialised Committee, IRSTEA "Territories" Department, 2017-2019
- Scientific Committee, Moselle Zone Atelier (ZAM), 2016-2021
- Scientific Committee, Rhine-Meuse Basin Committee, 2014-2021
- Strategic Advisory Board, ONF-AgroParisTech Chair "Forests for Tomorrow", 2012-2016
- Council of the Doctoral School in Law, Political Science, Economics and Management (SJPEG): elected member, 2013-2017; representative of BETA management, 2018-2022
- Council of the SJPEG Scientific Cluster, University of Lorraine, 2015-2017
- Scientific Department Committee "Social Sciences, Agriculture and Food, Space and Environment" (SAE2): elected member, 2011-2016; appointed alternate member, 2010-2011

## **PHD SUPERVISION**

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- Completed PhD theses (11): Eric Kéré (2013, co-supervision), Julien Wolfersberger (2015, co-supervision), Gengyang Tu (2016, supervision), Emeline Hily (2017, co-supervision), Tristan Amiri (2023, co-supervision), Derrick Mbarga (2023, co-supervision), Toho Hien (2023, co-supervision), Valentin Mathieu (2023, co-supervision), Daniel Elanga (2024, supervision), Nikola Jovanović (2024, co-supervision), Mehdi Guelmamen (2026, co-supervision). Discontinued PhD projects (2): Ophélie Darses; Leidimari Neves do Prado
- Ongoing PhD thesis (1): Godwin Agandan (since 2024, co-supervision)

## **RESEARCH PROJECTS & CONTRACTS**

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- Coordinator of research contracts and projects: public-private partnerships (2), TETRAE (1), LabEx (4)
- Scientific leader of work packages in research projects: European (1), ANR (1), PSDR4 (1), INRA (2)
- Full member of the Management Committee, COST Action CA15206 (2016-2021)

## **SCIENTIFIC EVALUATION & REVIEW ACTIVITIES**

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- HCERES research-unit evaluation committees (2013, 2021); advisory evaluation committee for economists at IRSTEA (2018)
- Selection committees: university Associate Professor positions (2013, 2015, 2016, 2017, 2020, 2022) and Full Professor positions (2020, 2021, 2026); INRAE Research Scientist (2016), Research Director (2025) and ITA (2020); IRSTEA Research Scientist (2015, 2017, 2018, 2019 x3) and Research Director (2019)

- PhD juries: external reviewer (2012, 2013, 2014 x2, 2015 x3, 2017 x4, 2021 x2, 2022, 2023 x2, 2026 x3), examiner (2018, 2023, 2024) and chair (2018, 2023); HDR juries: external reviewer (2014, 2015, 2016, 2021 x2, 2022, 2023, 2024, 2025); PhD advisory committees (9)

### SELECTED CONFERENCES

- Annual Conference of the European Association of Environmental and Resource Economists (EAERE): 2007, 2009, 2011, 2012, 2013, 2015, 2017, 2021, 2023, 2024, 2025
- World Congress of Environmental and Resource Economists (WCERE): 2006, 2010, 2014, 2018, 2026
- Annual Conference of the French Association of Environmental and Resource Economists (FAERE): 2014, 2016, 2017, 2018, 2021-2026
- French Economic Association (AFSE) Congress; Applied Microeconomics Days (JMA); other national and international conferences

### MAIN TEACHING ACTIVITIES

|            |                             |                 |                                                            |
|------------|-----------------------------|-----------------|------------------------------------------------------------|
| 2007-2019  | ENSAI, Rennes               | 3rd year        | Panel Data Econometrics                                    |
| Since 2012 | University of Franche-Comté | Master's Year 1 | Econometrics of Qualitative Dependent Variables            |
| Since 2018 | University of Lorraine      | Master's Year 2 | Valuation of Environmental Goods and Services              |
| Since 2018 | University of Lorraine      | Master's Year 2 | Sustainable Management of Natural Resources and Ecosystems |
| Since 2019 | University of Lorraine      | Master's Year 2 | Microeconometrics                                          |
| Since 2009 | University of Lorraine,     |                 | Doctoral training modules                                  |

### RECENT PUBLICATIONS

- Toho Hien, Serge Garcia, Christophe Schwartz (2026). Integrating Soil Natural Capital Into Production Frontiers of Ecosystem Services in Agriculture. *Agricultural Economics*, 57(1), e70076. <https://doi.org/10.1111/agec.70076>
- Arnaud Dragicevic, Jean-Christophe Pereau, Serge Garcia (2025). Assessing the Impact of Payments for Environmental Services on a Bioeconomic Supply Chain Equilibrium. *European Review of Agricultural Economics*, 52(5), 1283-1333. <https://doi.org/10.1093/erae/jbaf031>
- Mehdi Guelmamen, Serge Garcia, Alexandre Mayol (2025). Inter-municipal cooperation in drinking water supply: Trade-offs between transaction costs, efficiency and service quality. *International Review of Law and Economics*, 84, 106303. <https://doi.org/10.1016/j.irle.2025.106303>
- Toho Hien, Christophe Schwartz, Serge Garcia (2025). From soil sciences to soil economics: A cross-analysis of natural capital and soil ecosystem service provision. *Environmental Science & Policy*, 169, 104088. <https://doi.org/10.1016/j.envsci.2025.104088>
- Nikola B. Jovanović, Serge Garcia, Ljiljana Keča (2025). Are visitors, biodiversity or timber production better for nature conservation? Findings from an econometric analysis of the management costs of protected areas in Serbia. *Journal of Environmental Management*, 375, 124048. <https://doi.org/10.1016/j.jenvman.2025.124048>
- Tristan Amiri, Jens Abildtrup, Serge Garcia (2024). Estimating non-use values of improved water quality and biodiversity from a discrete choice experiment on watershed protection measures. *Revue d'Économie Politique*, 134(5), 739-770. <https://doi.org/10.3917/redp.345.0739>
- Seyed Mahdi Heshmatol Vaezin, Damien Marage, Serge Garcia (2022). Cost-effectiveness of Natura 2000 forest contracts for biodiversity conservation. *Canadian Journal of Forest Research*, 52(12), 1527-1542. <https://doi.org/10.1139/cjfr-2021-0204>
- Tristan Amiri, Jens Abildtrup, Serge Garcia, Claire Montagné-Huck (2022). The impact of water protection measures in the Vittel impluvium on recreational values: A choice experiment with local residents. *Revue Française d'Économie*, 37(2), 145-204. <https://doi.org/10.3917/rfe.222.0145>
- Gregory Valatin, Paola Ovando, Jens Abildtrup, Cristian Accastello, Maria-Beatrice Andreucci, Alex Chikalanov, et al. (2022). Approaches to cost-effectiveness of payments for tree planting and forest management for water quality services. *Ecosystem Services*, 53, 101373. <https://doi.org/10.1016/j.ecoser.2021.101373>
- Julien Jacob, Eve-Angéline Lambert, Serge Garcia (2022). Efficiency of sharing liability rules: An experimental case. *Journal of Institutional and Theoretical Economics*, 178(1), 1-42. <https://doi.org/10.1628/jite-2022-0001>