

Anne-Sarah Chiambretto

Economist · Regulation, natural resources, knowledge commons and quantitative analysis

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Current position

An economist specialising in public economics and regulation, I have carried out ten years of quantitative research drawing on advanced mathematical modelling, differential game theory and numerical simulation calibrated on real-world data. My work first addressed the governance of natural resources, including fisheries, water and pollution. Following a period devoted to artistic research, I am now extending my analytical framework to the knowledge commons. Currently teaching mathematics at secondary level, I conduct independent research and am preparing several publications. I welcome collaborations in applied research and strategic consulting.

Research and teaching experience

Assistant Professor, Applied Mathematics for the Social Sciences

2018–2021

INRAE / CEE-M, Montpellier

- Research in public economics and regulation, spatio-temporal modelling and differential games applied to the management of natural resources and common-pool goods
- Teaching statistics, econometrics, quantitative microeconomics and mathematics (undergraduate to graduate level)
- Co-developed with G. Levelly a serious game on the strategic management of fisheries, grounded in game-theoretic models

Postdoctoral Researcher

2017

CESAER-INRA, Dijon (supervisor: Elsa Martin)

- Spatio-temporal modelling of agricultural irrigation management across a heterogeneous landscape, using closed-loop differential games
- Numerical simulations in Mathematica calibrated on real-world data (San Joaquin Valley, California)
- Published in *Environmental and Resource Economics*, Springer (2020)

Associate Researcher

2015–2016

GREQAM / AMSE, Aix-Marseille University

- Public economics and regulation, modelling preemptive collective voluntary agreements, incentive and coordination mechanisms
- Seminars: CES Paris, INRA Grignon, FAERE Bordeaux, CIRED, EconomiX Nanterre

Teaching and Research Fellow, then Doctoral Researcher

2009–2015

University of Lille 3 and Aix-Marseille University

- Lecture courses: economics of uncertainty, environmental economics, imperfect competition, microeconomics, public economics
- Tutorials: statistics, applied mathematics, principles of economics
- Visiting researcher, University of Washington, Seattle (2011–2012), strategic modelling of natural resource management, supervised by Prof. Greg Ellis

Education

PhD in Economics, awarded with highest honours 2009–2014

Aix-Marseille School of Economics (AMSE) / EHESS, Marseille

- Dissertation: *Voluntary approaches to environmental regulation, a normative perspective*
- Supervisor: Prof. Hubert Stahn. Committee: Prof. M. Chiroleu-Assouline, Prof. T. Seegmuller, Prof. B. Sinclair-Desgagné, Prof. M. Tidball
- Specialisation: quantitative public economics, differential game theory, mechanism design

MSc in Economics, Public Economics track 2009

University of the Mediterranean – GREQAM / AMSE

MSc in Quantitative Economics (Ingénieur Économiste) 2008

University of the Mediterranean – GREQAM / AMSE

- Advanced training in quantitative economics, econometrics and applied mathematics

BSc in Economics and Management 2006

Aix-Marseille University

Visiting student 2007

McGill University, Montreal

Postgraduate Degree in Artistic Research (DSRA) 2019–2024

Higher School of Art Annecy-Alpes (ESAAA)

National qualification for Associate Professorship (CNU section 05), no. 15205253299, renewed 2019

Publications

2020, *Water quantity management in a heterogeneous landscape with farsighted farmers*, with E. Martin, ***Environmental and Resource Economics*, Springer.**

2018, *Voluntary agreements as correlated equilibria of a subscription game*, **FAERE Working Paper no. 2017.23**, indexed on RePEc. Under revision.

2017, *Voluntary-threat approaches to regulate fisheries*, with H. Stahn, **AMSE Working Paper no. 2017-13**.

2011, *Voluntary agreements with industries: participation incentives with industry-wide targets, a comment*, with H. Stahn, ***Economics Bulletin*, vol. 31, no. 1, pp. 116–121**.

in progress, *The regulation of a double tragedy of the commons: the case of marine oil pollution by fisheries*.

Skills

Quantitative analysis	Mathematical modelling, differential game theory, optimal control, econometrics, statistics, numerical simulation
Tools	Mathematica, L ^A T _E X, HTML/CSS/JavaScript, R (basic), Python (basic, self-taught)
Languages	French (native) · English (fluent, publications and teaching) · German (school level)

Further work

Alongside my work in economics, I initiated a research project in art within the third-cycle programme of the ESAAA, drawing in particular on social choice theory to analyse processes of editorial legitimation. A recipient of the **Mécènes du Sud** grant (2024), this work has led to publications with *Les Presses du réel* (*Le Meilleur Système*, 2024), Shed Publishing (*Pick Me !!!!*, 2025) and Zoème (*Écrire sans tuer*, 2026). I also co-founded **Parabooks**, an editorial platform dedicated to the collective rewriting of literary canons, with artist and designer Reem Saleh and curator Camille Ramanana Rahary (platform currently in development).