

## Silvia Tiezzi

*Associate Professor - Economics*

Department of Economics and Statistics

University of Siena - Italy

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### CURRENT POSITION

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Associate Professor - *Economics* Department of Economics and Statistics, University of Siena Siena, Italy

National Scientific Habilitation (ASN) as Full Professor of Economics

National Scientific Habilitation (ASN) as Full Professor of Economic Policy

National Scientific Habilitation (ASN) as Full Professor of Public Economics

### PREVIOUS POSITIONS

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Marie Curie Research Fellow 2012 - 2014

*First year at Carnegie Mellon University, Pittsburgh, PA (USA).*

*Second year at Department of Economics and Statistics, University of Siena.*

Assistant Professor, Department of Economics and Statistics, University of Siena (I) 2001 - 2015

*Economics*

Research Fellow, Department of Economics, University of Siena (I) 1999 - 2001

*Economics*

Lecturer, School of Economics, University of Sassari (I) 1996 - 1999

*Macroeconomics and Microeconomics*

Research Associate, Fondazione ENI Enrico Mattei (FEEM), Milan (I) 1995-1996

*Environmental Economics*

### RESEARCH AND VISITING POSITIONS

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Visiting Professor, Monash Business School, Melbourne (AU) March 2023  
*(four weeks visit)*

Visiting Professor, Carnegie Mellon University, Pittsburgh (PA) October 2015  
*(three weeks visit)*

Marie Curie Fellow, Carnegie Mellon University, Pittsburgh (PA) 2012- 2013  
*(fourteen months)*

Visiting Assistant Professor, Université de Montréal, Montréal (CA) 2010- 2011  
*(five months)*

### EDUCATION

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Ph.D. University of Siena (I) 1996  
*Department of Economics*

M. Phil. University of Cambridge (UK) 1992  
*Churchill College*

Laurea (M.Sc. equivalent) *Economics and Banking* University of Siena (I) 1991  
*Fourth year at Pembroke College, Oxford (UK) as Erasmus student.*

## RESEARCH INTERESTS

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**Primary fields:** Consumer Economics; Health Economics; Environmental Economics.

**Secondary fields:** Applied Micro Econometrics; Design and Analysis of Laboratory Experiments; Behavioral Public Economics.

## PUBLICATIONS

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### Journal articles

1. "Fat versus Sugar: The Case for a Saturated Fat Tax in Italy" (con V. Di Cosmo), *Health Economics*, 2025. <http://doi.org/10.1002/hec.4933>
2. "The Gray Zone. How Not Imposing a Strict Lockdown at the Beginning of a Pandemic Can Cost Many Lives." (con C. Crudu, R. Di Stefano e G. Mellace), *Labour Economics*, 89 (8), 102580, 2024. <https://doi.org/10.1016/j.labeco.2024.102580>
3. "A Markov Decision Process with Awareness and Present Bias in Decision-Making" (with F. Bizzarri and C. Mocenni) *Mathematics*, 2023. <https://doi.org/10.3390/math11112588>
4. "Tax Liability Side Equivalence and Time Delayed Externalities" (with L. Huang and E. Xiao) *European Journal of Political Economy*, 72, 102110, 2022.
5. "Rational Addiction and Time Consistency: an Empirical Test" (con L. Piccoli) *Journal of Health Economics*, 80, 102546, 2021.
6. "Family Ties and Child Obesity in Italy" (con F. Crudu and L. Neri), *Economics and Human Biology*, 40, 2021.
7. "How Hard Is It to Maximize Profit? Evidence from a 19th Century Italian State Monopoly" (con C. Ciccarelli e G. De Fraja), *Oxford Economic Papers*, 73(2), 879-902, 2021.
8. "A Model of Spontaneous Remission from Addiction" (with Chiara Mocenni and Giuseppe Montefrancesco). *International Journal of Applied Behavioral Economics*, 8(1), 21-48, 2019.
9. "The Signaling Effect of Gasoline Taxes and its Distributional Implications" (with Stefano F. Verde), *The Journal of Economic Inequality*, <https://doi.org/10.1007/s10888-9397-7>, 17(1), 1-25, 2019.
10. "What can We Learn about Smoking from 150 Years of Italian Data?" (with Carlo Ciccarelli and Pierpaolo Pierani), *Applied Economic Perspectives and Policy*, 40(4), 695-717, 2018.
11. "Time Delay, and Support for Taxation" (with Erte Xiao), *Journal of Environmental Economics and Management*, 77, 117-141, 2016.
12. "Differential Demand Responses to Gasoline Tax and Price Changes in the US" (with Stefano F. Verde), *Resource and Energy Economics*, 37, 147-167, 2016.
13. "Is the Environment a Luxury? An Empirical Investigation using Revealed Preferences and Household Production" (with Chiara Martini), *Resource and Energy Economics*, 37, 147-167, 2014.
14. "Declining Equivalence Scales and Cost of Children: Evidence and Implications for Inequality Measurement" (with Fabrizio Balli), *B.E. Journal of Economic Analysis and Policy*, 13(2), 761-783, 2013.
15. "Infrequency of Purchase, Individual Heterogeneity and Rational Addiction in Single Households'Estimates of Alcohol Consumption" (with Pierpaolo Pierani), *Il Giornale degli Economisti e Annali di Economia*, 7(2), 93-116, 2011.
16. "Cognitive Factors and Changes in Individual Decision Making: from Drug Addiction to Natural Recovery" (with Chiara Mocenni and Giuseppe Montefrancesco), *Chaos and Complexity Letters*, 4(3), 61-73, 2011.

17. "Equivalence Scales, the Cost of Children and Household Consumption Patterns in Italy" (with Fabrizio Balli), *Review of Economics of the Household*, 8(4), 527-549, 2010.
18. "Addiction and Interaction between Alcohol and Tobacco Consumption" (with Pierpaolo Pierani), *Empirical Economics*, 37(1), 1-24, 2009.
19. "Addiction and Alcohol Consumption: evidence from Italian Data" (with Pierpaolo Pierani), *Rivista Internazionale di Scienze Sociali*, 2, 265-284, 2007.
20. "An Empirical Analysis of Tobacco Addiction in Italy", *European Journal of Health Economics*, 6(3), 233-242, 2005.
21. "The Welfare and Distributive Effects of Carbon Taxation on Italian Households", *Energy Policy*, 33, 1597-1612, 2005.
22. "Dipendenza Razionale e Consumo di Tabacco: Teoria ed Evidenza Empirica", *Rivista di Politica Economica*, Marzo-Aprile, 225-258, 2004.
23. "Environmental Defensive Expenditures and Households Behaviour in Italy", *Applied Economics*, 34, 2053-2061, 2002.
24. "External effects of Agricultural Production in Italy and Environmental Accounting", *Environmental and Resource Economics*, 13, 459-472, 1999.
25. "Stima delle esternalità e correzione del valore aggiunto del settore agricolo: un'applicazione a dati italiani", *QA, Rivista dell'Associazione Rossi-Doria*, 68, 19-40, 1997.
26. "Short and Long-Run Price Elasticities of Demand for Nitrogen: an Application of Cointegration to Italian Data", *Cahiers d'Economie et Sociologie Rurales*, 32, 6-19, 1994.

### Edited Books

27. "Is the Environment a Luxury? An Inquiry into the Relationship between Environment and Income", S. Tiezzi and C. Martini editors, *Routledge Explorations in Environmental Economics*, Routledge, Taylor & Francis Group, 2014. [ISBN 978-0-415-69059-1]

### Book Chapters

28. "Willingness to Pay for Air Quality Improvements: How Much do we Care?" (with Chiara Martini). In: *Is the Environment a Luxury? An Inquiry into the Relationship Between Environment and Income*; S. Tiezzi and C. Martini editors, *Routledge Explorations in Environmental Economics*, Routledge, Taylor & Francis Group, 2014. [ISBN 978-0-415-69059-1]
29. "Introduction", (with Chiara Martini). In: *Is the Environment a Luxury? An Inquiry into the Relationship Between Environment and Income*; S. Tiezzi and C. Martini editors, *Routledge Explorations in Environmental Economics*, Routledge, Taylor & Francis Group, 2014. [ISBN 978-0-415-69059-1]
30. "Cognitive factors and changes in individual decision making: From drug addiction to natural recovery" (with Chiara Mocenni and Giuseppe Montefrancesco). In: *On the Borders of Complexity*, F. Orsucci and N. Sala editors, *Nova Science Publisher Inc*, 2012. [ISBN 978-161470576-5]
31. "A decision based model of addiction: explaining quitting behavior" (with Chiara Mocenni and Giuseppe Montefrancesco). Proceedings of the Conference *NOLTA Nonlinear Analysis Theory and Applications*, Bologna (It), September 11-13, Vol. 1, pp. 123-126, 2006.
32. "A note on Distributional effects of the Ecological Tax Reform in Germany: an Evaluation with a Microsimulation Model", Proceedings of the OECD Workshop *The Distribution of Benefits and Costs of Environmental Policies: Analysis, Evidence and Policy Issues*. OECD headquarters, Paris, 4-5 March 2003.

33. "Welfare indices and Environmental Accounting: a critical survey" (with Simone Borghesi). In: Economic Institutions and Environmental Policy; M. Franzini and A. Nicita editors, *Ashgate*, London, pp. 15-56, 2002. [ISBN 1-84014-150-6]
34. "L'ambiente: un diritto in cerca di istituzioni" (with Maurizio Franzini). In: La Cittadinanza Difficile. Diritti e Welfare; L. Barca e M. Franzini editors; *Il Ponte Editore*, Firenze, pp. 143-165, 2002. [ISBN B00M0N2DSW]

## Working Papers

"Eggs when Young Chicken when Old. Addiction and Time Consistency over the Life Cycle." (con L. Piccoli), IZA DP No. 16372, 2023. (Submitted)

"Who Stands Up to Persuade? Voluntary Influencers and Public Support for Taxation." (with L. Huang and E. Xiao), 2023.

"A Markov Decision Process Model of Addiction." (con C. Mocenni e E. Vitanza), 2023. (Submitted)

"The Economic Impact of Clean Indoor Air Laws: a Review of Alternative Approaches and of Empirical Findings", *Quaderni di Ricerca Ref.online: ricerche in Economia e Finanza*, n.53, 2009.

"An Index of Sustainable Economic Welfare for the Italian Economy" (with Giorgio Guenzo), *Note di Lavoro Fondazione ENI Enrico Mattei (FEEM)*, n.5, 1998.

## Popular Writings

"La Zona Grigia" (con F. Crudu, R. Di Stefano e G. Mellace), *LaVoce.info*, August 2022  
<https://www.lavoce.info/archives/96760/la-zona-grigia-della-val-seriana/>

"Questa Sugar Tax serve a fare cassa, non alla salute", *LaVoce.info* December 2019  
<https://www.lavoce.info/archives/62566/come-tassare-lo-zucchero-nelle-bibite/>

"This Is What Monopoly Looks Like: The Italian Tobacco Sector in the Late 19th Century" (with Carlo Ciccarelli and Gianni De Fraja), *ProMarket.org The blog of the Stigler Center at the University of Chicago Booth School of Business* June 2018  
<https://promarket.org/monopoly-looks-like-italian-tobacco-sector-late-19th-century/>

## RESEARCH GRANTS AND FELLOWSHIPS

PRIN-PNRR Grant 2022 (P2022BXP5X) 2023-2025  
 Project: "Welfare Effects, Habit Formation and Projection Bias in Cycling (I-RIDE)." (Euro 242.000)  
 Principal Investigator.

Marie Curie Alumni Association (MCAA) Micro Travel Grant. 2019  
 To participate in the 2019 Health Econometrics Workshop, Knoxville (TN), September 2019.

Marie Curie International Outgoing Fellowship. 2012-2014  
 Project: "Consumer Behavior and Energy Taxation: Exploiting Psychological Biases in Designing a Green Tax Reform." (Euro148,000) Principal Investigator.  
<https://cordis.europa.eu/result/rcn/150127.en.html>

Visiting Professor Grant, UNIVERSITÉ DE MONTRÉAL, DEPARTMENT DES SCIENCES ECONOMIQUES, QUEBEC (CA). 2010  
 Project Title: "Income Dependent Equivalence Scales and the Cost of Children."

2004 - 2006 Atheneum Research Grant (PAR Grant), UNIVERSITY OF SIENA (I). 2004-2006  
 Project Title: "Income and the Environment. An Empirical Investigation using Revealed Preferences and Household Production."

Atheneum Research Grant (PAR Grant), UNIVERSITY OF SIENA (I). <i>Project Title: "An Empirical Analysis of Tobacco Addiction in Italy."</i>	2002 - 2004
Young Economist Grant, UNIVERSITY OF SIENA (I). <i>Project Title: "Environmental Defensive Expenditures and Household Consumption Behavior."</i>	1999 - 2000
Young Associate, ENVIRONMENT DIRECTORATE, OECD, PARIS (FRANCE). <i>Offered, not taken up.</i>	1999 - 2000
Young Economist Grant, BANK MONTE DEI PASCHI DI SIENA (I). <i>Offered, not taken up.</i>	1999 - 2000
Post Doctoral Grant, UNIVERSITY OF SIENA (I). <i>Project Title: "The Welfare Effects of Carbon Taxation on Italian Households."</i>	1996 - 1998
Research Grant, FONDAZIONE ENI ENRICO MATTEI (FEEM), MILAN (I). <i>Project Title: "An Index of Sustainable Economic Welfare for Italy."</i>	1994 - 1996
Erasmus Scholarship for Graduate Studies at THE UNIVERSITY OF CAMBRIDGE (U.K.)	1992-1993
Erasmus Scholarship for Undergraduate Studies at OXFORD UNIVERSITY (U.K.)	1990 - 1991

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## SCIENTIFIC ACTIVITY

### Referee for the following journals

*American Journal of Agricultural Economics*  
*Contemporary Economic Policy*  
*Ecological Economics*  
*Economic Inquiry*  
*Economic Modelling*  
*Empirical Economics*  
*Energy Economics*  
*Environment and Development Economics*  
*Health Economics*  
*International Journal of Applied Behavioral Economics*  
*Journal of Economic Psychology*  
*Journal of Economic Surveys*  
*Journal of Environmental Economics and Management*  
*Journal of Environmental Management*  
*Journal of Health Economics*  
*PlosOne*  
*Review of Economics of the Household*  
*Rivista di Politica Economica*  
*Southern Economic Journal*  
*The Energy Journal*

### Reviewer of Grant Applications

Reviewer of grant applications on behalf of the French National Research Agency (FNRA) within the "Framework of the French-German Program in Humanities and Social Sciences (FRAL)" (Deutsche Forschungsgemeinschaft). 2022 - present

Recognised expert for the review of grant applications on behalf of the "Fund for Scientific Research-FNRS (F.R.S.-FNRS)", Bruxelles. 2022- present

## Other Scientific Activities

- Editorial Review Board, INTERNATIONAL JOURNAL OF APPLIED BEHAVIORAL ECONOMICS 2018 - present
- Managing Board, CENTRO INTER-UNIVERSITARIO PER L'ECONOMIA SPERIMENTALE (CIES) 2023 - present
- Member, Organising Committee of the XV WORKSHOP OF THE INTERNATIONAL SCHOOL OF ECONOMIC RESEARCH: ENVIRONMENT, INEQUALITY AND COLLECTIVE ACTION, Certosa di Pontignano, Siena 2002
- Research Associate, Pittsburgh Experimental Economics Laboratory (PEEL)  
<https://www.econ.pitt.edu/peel/people>
- External Affiliate, Health Econometrics and Data Group (HEDG), University of York  
<https://www.york.ac.uk/economics/hedg/people/>
- Member, Marie Curie Alumni Association  
<https://www.mariecuriealumni.eu/>
- Member, American Economic Association; Italian Economic Association; Italian Association of Public Economics.

## Invited Talks

- Invited discussant, 1<sup>st</sup> APHEC (ADVANCED PHARMACO & HEALTH ECONOMICS) WORKSHOP, GENOVA (I), September 13-14, 2019
- Invited discussant, 26<sup>th</sup> EUROPEAN WORKSHOP ON ECONOMETRICS AND HEALTH ECONOMICS, PRAGUE SCHOOL OF ECONOMICS, Prague (CZ) September 13-16, 2017
- Invited speaker, Workshop ENERGY/CARBON TAXATION AND CLIMATE POLICIES: A SCOPING MEETING FOR FSR CLIMATE, Florence School of Regulation - EUI, Florence (I) December 12 2014
- Invited speaker, ATELIER D'ECONOMIE DES RESSOURCES NATURELLES ET DE L'ENVIRONNEMENT DE MONTREAL, McGill University, Montreal (CA), February 2011
- Invited Consultant, Workshop THE DISTRIBUTION OF COSTS AND BENEFITS OF ENVIRONMENTAL POLICIES, OECD, Environment Directorate, National Policies Division, Paris (FR) March 2003

## Selected Seminar and Conference Presentations, (\*) if presented by a co-author

- 2023: 1<sup>st</sup> HERB (Health Economics and Risky Behavior) Workshop, Department of Economics, UBologna (I), January (\*); ICEEE 2023 (Italian Congress of Econometrics and Empirical Economics), UCagliari (I), May (\*); IAAE 2023, Norwegian Business School Oslo (NO), June; SWETA (Siena Workshop on Econometric Theory and Applications) 2023, USiena (I), June; ECINEQ (Economic Inequality Society) 2023, Aix-en-Provence (FR), July; EALE 2023, Prague (CZ), September (\*); EEA 2023, Barcelona (SP), September (\*).
- 2022: 63<sup>th</sup> Italian Economic Association Annual Meeting, UTorino (I), October (\*); DAGstat Conference, Hamburg (DE), March (\*); ESPE Conference 2022, Cosenza (I), June (\*); COMPIE 2022 conference (COunterfactual Methods for Policy Impact Evaluation), Mannheim (DE) July (\*); NHESG (Northern Health Economics Study Group) 2022 Conference, Reykjavik, July (\*).
- 2021: Birkbeck College, Department of Economics Mathematics and Statistics, University of London (UK), April 27; Department of Economics and Statistics, UTurin, October 7; Department of Economics and Statistics, USiena, October 13; A.I.S.Re Conference 2021 (online), September (\*).

2020: Cornell University, Virtual Seminars on the Economics of Risky Health Behaviors (VERB) <https://www.human.cornell.edu/pam/research/hehbad/virtualeseminars> , 14 Dicembre 2020(\*).

2019: 2019 EPCS (European Public Choice Society) Annual Meeting 2019, Jerusalem (IL) April; 18<sup>th</sup> Journées LAGV in Public Economics, Aix-en-Provence (FR) June; 6<sup>th</sup> IAAE (International Association for Applied Econometrics) Annual Conference, Cyprus (CY) June; NHESG (Northern Health Econometrics Study Group) 2019 Reykjavik (IS) August (\*); Annual Health Econometrics Workshop (AHEW) Knoxville (TN) USA, September.

2018: SEET Workshop 2018, Lecce (I) February; 6<sup>th</sup> WCERE Congress, Gothenburg (Sweden), June (\*); IX IBEO Workshop, Alghero (I), June; 12<sup>th</sup> EuHEA Conference, Maastricht (NL), July; XXX SIEP Annual Meeting, U Padova, September.

2017: Departamento de Analisis Economico, University of Valencia (ES) (*seminar*), February; 16<sup>th</sup> JLAGV Conference, Aix-En-Provence (FR), June; SIEP Conference, Catania (I), September; 58<sup>th</sup> SIE Annual Meeting, U Cosenza (I), October.

2016: Third IMEBESS meeting, U LUISS Rome (I), April; 13<sup>th</sup> International Conference on Distributed Computing and Artificial Intelligence, Seville (ES), June (\*); 57<sup>th</sup> SIE Meeting, U Bocconi Milan (I), October; XXVIII SIEP Meeting, U Lecce (I), September; 7<sup>th</sup> AWEEE Workshop, A Toxa (ES), June (\*).

2015: 56<sup>th</sup> SIE Meeting, U Naples (I), October; Workshop on "Taxes, Subsidies, Regulation in Dynamic Models", U Brescia (I), October; XXVII SIEP Meeting, U Ferrara (I), October; NIBS Workshop, U Nottingham (UK), April (\*).

2014: Workshop "Energy/Carbon Taxation and Climate Policies", Florence School of Regulation (EUI) Florence (I), December; 15<sup>th</sup> Global Conference on Environmental Taxation, Copenhagen (DK), September; Conference on "Taxation, Social Norms and Compliance", CEBID U Nuremberg (DE), March.

## TEACHING

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### PhD courses in English

PANEL DATA ECONOMETRICS, PhD Program in Economics, Universities of Tuscany AY 2014/15 - present

TOPICS IN ECONOMETRICS, PhD Program in Economics, Universities of Tuscany AY 2006/7 - 2010/11

TOPICS IN LAW AND ECONOMICS: THE MARKET FOR ILLEGAL GOODS, PhD Program in Law & Economics, University of Siena AY 2006/7

### Graduate courses (in English and Italian)

ADVANCED MICROECONOMICS, MSc in Economics, University of Siena AY 2016/17 - present

ECONOMETRICS FOR ENVIRONMENTAL POLICY, MSc in Economics, University of Siena AY 2014/15 - present

MICROECONOMETRICS, MSc Economics, Environment and Development, University of Siena AY 2010/11

HEALTH ECONOMICS, MSc Economics, Environment and Development, University of Siena AY 2009/10-2010/11

### Undergraduate courses (in English and Italian)

ENVIRONMENTAL ECONOMICS AND POLICY, SDS 88-352, Carnegie Mellon University, Pittsburgh (PA), USA Spring 2012

ECONOMICS, ORGANIZATIONS AND MANAGEMENT, University of Siena AY 2001/2 - 2009/10

MICROECONOMICS, University of Siena	AY 2010/11 - 2012/13
LABOUR ECONOMICS, University of Siena	AY 2008/9
ENVIRONMENTAL ECONOMICS AND POLICY, University of Siena	AY 2002/3 - 2005/6
MICROECONOMICS, University of Sassari	AY 1997/8 - 1998/9
MACROECONOMICS, University of Sassari	AY 1996/7

## PHD MENTORING

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### Main Advisor or Co-Advisor

Edoardo Alberti, Siena 2023  
 Valentina Ciriotto, Siena 2022  
 Haomiao Niu, Siena 2022  
 Nita Handastya, Siena 2020 (first year tutor)  
 Netsanet Getahun Mengistie, Siena 2018 (first year tutor)  
 Flaminia Pedone, Siena 2016 (Main Advisor: Ugo Pagano)  
 Abhinav Sharma, Siena 2014  
 Fabrizio Balli, Siena 2012  
 Chiara Martini, Roma Tre 2008 (Main Advisor: Antonio Di Majo)

### Member of Defense Committee

Joaquin Paseyro Mayol, Siena 2024; Sara Paulone, Siena 2019; Francesco Zezza, Siena 2018; Emiliano Tealde, Siena 2016; Guy Barokas, Siena 2014; Sandra Polanya Reyes, Siena 2014; Laura Policardo, Siena 2010; Arjana Brezigar, Siena 2009.

### SERVICE (SELECTED TASKS AND DUTIES)

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- Director, M.Sc. Environmental Economics, University of Siena 2021 - present
- Member of the Teaching Committee, M.Sc. Management & Governance, University of Siena 2018 - 2021
- Economics Department Delegate for University Orientation and Tutoring 2016 - 2021
- Member of the Faculty Board of the PhD Program in Economics, University of Siena 2011- present
- Jury Member for the recruitment of an Assistant Professor in Econometrics, University of Siena 2016
- Member of the Teaching Committee, B.A. Economics and Management, University of Siena 2015 - 2018
- Advisor, PhD Program in Economics, University of Siena 2008 - 2011
- Lunch and Regular Seminars Organizer, Department of Economics, University of Siena 2005 - 2006
- Member of the Teaching Committee, B.A. and MSc Environmental Economics, University of Siena 2002 - 2012
- Member of the internal auto-examiner group for the review of the Department of Economics' taught provision (VAI project), University of Siena 2002- 2006