FABIO PRIVILEGGI

ACADEMIC POSITION

| POSITION | Since October 2021: Full Professor in Mathematical Methods in Economics and |
|-------------|---|
| | Finance (SS 13/D4) |
| AFFILIATION | Department of Economics and Statistics "Cognetti de Martiis", |
| | Università degli Studi di Torino |
| Address | Lungo Dora Siena 100 A, 10153 - Torino (Italy) |
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PAST POSITIONS

- July 2013–Sept. 2021: Associate Professor in Mathematical Methods in Economics and Finance (SS 13/D4), Department of Economics and Statistics "Cognetti de Martiis", Università degli studi di Torino (Torino, Italy).
- Dec. 2004–June 2013: Associate Professor in Mathematical Methods in Economics and Finance (SS 13/D4), Department *DiGSPES POLIS* (former Faculty of Political Sciences), Università del Piemonte Orientale A. Avogadro (Alessandria, Italy).
- Jan. 1999–Dec. 2004: Assistant Professor in Mathematical Methods in Economics and Finance (SS 13/D4), Faculty of Political Sciences Department of Public Policy and Public Choice "POLIS", Università del Piemonte Orientale *A. Avogadro* (Alessandria, Italy).
- Jan. 1997–Dec. 1998: Assistant Professor in Mathematical Methods in Economics and Finance (SS 13/D4), Faculty of Political Science in Alessandria, Department of Statistics and Mathematics for Social Sciences *D. De Castro*, Università di Torino (Torino, Italy).

PROFESSIONAL CERTIFICATIONS

- 2018: Italian Habilitation as Full Professor in Mathematical Methods in Economics and Finance (SS 13/D4), MIUR, Rome (Italy).
- 2015: Italian Habilitation as Full Professor in Economics (SS 13/A1), MIUR, Rome (Italy).
- 2014: Italian Habilitation as Full Professor in Political Economy (SS 13/A2), MIUR, Rome (Italy).

EDUCATION

- Jan. 1996–Dec. 1996: Post-doc scholarship at Università di Trieste, Department of Applied Mathematics *B. de Finetti*, Faculty of Economics (Trieste, Italy).
- Oct. 1995: Ph.D. in *Mathematics applied to Economic Problems* at Università di Trieste (Italy). Thesis topic: Recursive Methods for Stochastic Dynamic Optimization (in Italian). Fields include: Mathematical Analysis, Probability and Stochastic Processes, Bellman Principle of Maximum, Euler Equations in discrete-time Stochastic Models, Stochastic Optimal Growth in discrete-time. Supervisor: Prof. Luigi Montrucchio, Università di Torino (Italy).
- July 1988: Laurea, equiv. BSc, in Political Sciences Economics field (110/110 cum laude), at Università di Trieste (Italy). Dissertation on Alternative Approaches to the Structure and the Role of the Non-Profit Sector in a Market Economy (in Italian). Supervisor: Prof. C. Busana, Università di Trieste (Italy).

RESEARCH INTERESTS

Mathematical Economics, Optimization, Discrete-time Dynamical Systems (Non-Linear Dynamics and Chaos), Discrete-time Stochastic Dynamic Optimization (with Applications to Optimal Growth, Equilibrium and Inequality), Fractals in Economics, Continuous-time Endogenous Growth Models (with Innovation and Intellectual Property Rights), Knowledge Growth, Growth and Social Capital, Fiscal Policy (Tax Evasion and Tax Amnesties), Economic-Epidemiological Models.

PUBLICATIONS

Articles in peer reviewed international Journals

- La Torre, D., Marsiglio, S., Mendivil, F. and F. Privileggi (2024), Infectious diseases and social distancing under state-dependent probabilities, *Annals of Operations Research*. https://doi.org/10.1007/s10479-023-05409-z
- Bahamazava, K., Marchese, C. and F. Privileggi (2024), A Cournot Equilibrium between Dark Net Market and Street Market, *FinanzArchiv* 79: 308–331. https://doi.org/10.1628/fa-2024-0002
- La Torre, D., Marsiglio, S., Mendivil, F. and F. Privileggi (2024), Stochastic Disease Spreading and Containment Policies under State-Dependent Probabilities, *Economic Theory* 77: 127–168. https://doi.org/10.1007/s00199-023-01496-y
- La Torre, D., Marsiglio, S., Mendivil, F. and F. Privileggi (2022), Generalized Fractal Transforms with Condensation: a Macroeconomic-Epidemiological Application, *Pure and Applied Functional Analysis* 7: 2101–2128.
- Carmeci, G., Mauro, L. and F. Privileggi (2021), Growth Maximizing Government Size, Social Capital, and Corruption, *Journal of Public Economic Theory* 23: 438–461. https://doi.org/10.1111/jpet.12508
- 6. La Torre, D., Marsiglio, S., Mendivil, F. and F. Privileggi (2021), Public Debt Dynamics under Ambiguity by Means of Iterated Function Systems on Density Functions, *Discrete & Continuous Dynamical Systems B* 26: 5873–5903. https://doi.org/10.3934/dcdsb.2021070
- Marsiglio, S. and F. Privileggi (2021), Three Dimensional Fractal Attractors in a Green Transition Economic Growth Model, *Communications in Nonlinear Science and Numerical Simulation* 93: 105509. https://doi.org/10.1016/j.cnsns.2020.105509
- Marsiglio, S. and F. Privileggi (2021), On the Economic Growth and Environmental Trade-Off: a Multi-Objective Analysis, *Annals of Operations Research* 296: 263–289. https://doi.org/10.1007/s10479-019-03217-y
- Marchese, C. and F. Privileggi (2020), A Competitive Idea-Based Growth Model, *Economics of Innovation and New Technology* 29: 313–330. https://doi.org/10.1080/10438599.2019.1616663
- La Torre, D., Marsiglio, S., Mendivil, F. and F. Privileggi (2019), A stochastic economic growth model with health capital and state-dependent probabilities, *Chaos, Solitons and Fractals* 129: 81–93. https://doi.org/10.1016/j.chaos.2019.08.010
- Marchese, C., S. Marsiglio, F. Privileggi and G. B. Ramello (2019), Endogenous Recombinant Growth and Intellectual Property Rights, *Macroeconomic Dynamics* 23: 2035–2067. https://doi.org/10.1017/S136510051700058X

- Privileggi, F. and S. Marsiglio (2019), Dynamics and Welfare in Recombinant Growth Models with Intellectual Property Rights: a Computational Method, *Communications in Nonlinear Science and Numerical Simulation* 69: 98–118. https://doi.org/10.1016/j.cnsns.2018.09.008
- La Torre, D., Marsiglio, S. and F. Privileggi (2018), Fractal Attractors in Economic Growth Models with Random Pollution Externalities, *Chaos: An Interdisciplinary Journal of Nonlinear Science* 28: 055916. https://doi.org/10.1063/1.5023782
- Marchese, C. and F. Privileggi (2018), Endogenous Economic Growth with Disembodied Knowledge, *Journal of Public Economic Theory* 20: 437–449. https://doi.org/10.1111/jpet.12284
- La Torre, D., Marsiglio, S., Mendivil, F. and F. Privileggi (2018), Fractal Attractors and Singular Invariant Measures in Two-Sector Growth Models with Random Factor Shares, *Communications in Nonlinear Science and Numerical Simulation* 58: 185–201. https://doi.org/10.1016/j.cnsns.2017.07.008
- La Torre, D., Marsiglio, S., Mendivil, F. and F. Privileggi (2015), Self-Similar Measures in Multi-Sector Endogenous Growth Models, *Chaos, Solitons and Fractals* 79: 40–56. https://doi.org/10.1016/j.chaos.2015.05.019
- Privileggi. F. (2015), Takeoff vs. Stagnation in Endogenous Recombinant Growth Models, *Mathematics and Computers in Simulation* 108: 184–214. https://doi.org/10.1016/j.matcom.2014.05.012
- Privileggi, F. and S. Marsiglio (2013), Environmental Shocks and Sustainability in a Basic Economy-Environment Model, *International Journal of Applied Nonlinear Science* 1: 67–75. https://doi.org/10.1504/IJANS.2013.052755
- Biswas, R., C. Marchese and F. Privileggi (2013), Firm's Tax Evasion in a Principal-Agent Model with Self-Protection, *Journal of Economics* 110: 125–140. https://doi.org/10.1007/s00712-012-0306-4
- La Torre, D., S. Marsiglio and F. Privileggi (2011), Fractals and Self-Similarity in Economics: the Case of a Stochastic Two-Sector Growth Model, *Image Analysis & Stereology* 30: 143–151. https://doi.org/10.5566/ias.v30.p143-151
- Privileggi, F. (2011), Transition Dynamics in Endogenous Recombinant Growth Models by means of Projection Methods, *Computational Economics* 38: 367–387. https://doi.org/10.1007/s10614-011-9278-7
- Marchese, C. and F. Privileggi (2009), A model of the Italian cut-off system for taxing small businesses, *Research in Economics* 63: 127–134. https://doi.org/10.1016/j.rie.2009.04.003
- Mitra, T. and F. Privileggi (2009), On Lipschitz Continuity of the Iterated Function System in a Stochastic Optimal Growth Model, *Journal of Mathematical Economics* 45: 185–198. https://doi.org/10.1016/j.jmateco.2008.08.003
- Mitra, T. and F. Privileggi (2006), Cantor Type Attractors in Stochastic Growth Models, *Chaos, Solitons & Fractals* 29: 626–637. https://doi.org/10.1016/j.chaos.2005.08.094
- Marchese, C. and F. Privileggi (2004), Tax Amnesties and the Self-Selection of Risk-Averse Tax Payers, *European Journal of Law and Economics* 18: 319–341. https://doi.org/10.1007/s10657-004-4276-z

- 26. Mitra, T. and F. Privileggi (2004), Cantor Type Invariant Distributions in the Theory of Optimal Growth under Uncertainty, *Journal of Difference Equations and Applications* **10**: 489–500. https://doi.org/10.1080/1023619042000193649
- Mitra, T., L. Montrucchio and F. Privileggi (2003), The Nature of the Steady State in Models of Optimal Growth Under Uncertainty, *Economic Theory* 23: 39–71. https://doi.org/10.1007/s00199-002-0340-5
- Montrucchio, L. and F. Privileggi (2001), On Fragility of Bubbles in Equilibrium Asset Pricing Models of Lucas-Type, *Journal of Economic Theory* 101: 158–188. https://doi.org/10.1006/jeth.2000.2718
- 29. Privileggi, F., C. Marchese and A. Cassone (2001), Agent's Liability Versus Principal's Liability when Attitudes toward Risk Differ, *International Review of Law and Economics* **21**: 181–195. https://doi.org/10.1016/S0144-8188(01)00055-2
- Montrucchio, L. and F. Privileggi (1999), Fractal Steady States in Stochastic Optimal Control Models, *Annals of Operations Research* 88: 183–197. <u>https://doi.org/10.1023/A:1018978213041</u>
- 31. Marchese, C. and F. Privileggi (1997), Taxpayers Attitudes Toward Risk and Amnesty Participation: Economic Analysis and Evidence for the Italian Case, *Public Finance Finance Publique* **52**: 394–410.
- 32. Privileggi, F. (1995), A Characterization for Solutions of Stochastic Discrete Time Optimization Models, *Rivista di Matematica per le Scienze Economiche e Sociali* **18**: 165-180. https://doi.org/10.1007/BF02096426

Book chapters

 Privileggi, F. (2010), On the Transition Dynamics in Endogenous Recombinant Growth Models, in Bischi, G.I., Chiarella, C. and L. Gardini (Eds.), *Nonlinear dynamics in economics, finance and social sciences*, Berlin: Springer Verlag: 251-278. https://doi.org/10.1007/978-3-642-04023-8_14

Working Papers in Progress

- 34. An Endogenous Growth Model of Secular Stagnation, with G. Carmeci and L. Mauro.
- 35. A Stochastic Economic Growth Model with State-Dependent Probabilities, with D. La Torre, S. Marsiglio and F. Mendivil.
- 36. Calculus of Variations with respect to Fractal Measures and Application to Economic Growth, with D. La Torre, S. Marsiglio and F. Mendivil.
- 37. Recombinant Growth by means of Partial Hamiltonian Approach, with S. Marsiglio.
- 38. Consumption Externalities and Endogenous Growth, with C. Marchese.

Other Working Papers

 La Torre, D., Marsiglio, S., Mendivil, F. and F. Privileggi (2022), Stochastic Disease Spreading and Containment Policies under State-Dependent Probabilities, *Dip. "Cognetti de Martiis" Working Paper* 05/22, Torino (Italy).

https://www.est.unito.it/do/home.pl/Download?doc=/allegati/wp2022dip/wp_05_2022.pdf

- 40. La Torre, D., Marsiglio, S., Mendivil, F. and F. Privileggi (2021), Generalized Fractal Transforms with Condensation: a Macroeconomic-Epidemiological Application, *Dip. "Cognetti de Martiis" Working Paper* 07/21, Torino (Italy). https://www.est.unito.it/do/home.pl/Download?doc=/allegati/wp2021dip/wp_07_2021.pdf
- 41. Marchese, C. and F. Privileggi (2016), A Competitive Idea-Based Growth Model with Shrinking Workers' Income Share, *Dip. "Cognetti de Martiis" Working Paper* **04/16**, Torino (Italy). https://www.est.unito.it/do/home.pl/Download?doc=/allegati/wp2016dip/wp_4_2016.pdf
- 42. Marchese, C. and F. Privileggi (2014), A Competitive Idea-Based Growth Model with Shrinking Workers' Income, *Dip. "Cognetti de Martiis" Working Paper* **15/14**, Torino (Italy). https://www.est.unito.it/do/home.pl/Download?doc=/allegati/wp2014dip/wp_15_2014.pdf
- Marchese, C., S. Marsiglio, F. Privileggi and G. B. Ramello (2014), Endogenous Recombinant Growth through Market Production of Knowledge and Intellectual Property Rights, *Dip. "Cognetti de Martiis" Working Paper* 13/14, Torino (Italy). https://www.est.unito.it/do/home.pl/Download?doc=/allegati/wp2014dip/wp_13_2014.pdf
- 44. Cozzi, G. and F. Privileggi (2009), The Fractal Nature of Inequality in a Fast Growing World: New Revision, *University of Glasgow, Dept. of Economics Discussion Papers Series* **2009-30**, Glasgow (UK). https://www.gla.ac.uk/media/Media_126649_smxx.pdf
- 45. Privileggi, F. (2007), The Cutoff Policy of Taxation when CRRA Taxpayers Differ in Risk Aversion Coefficients and Income: a Proof, *POLIS Working Paper* **107**, Alessandria (Italy). http://polis.unipmn.it/pubbl/RePEc/uca/ucapdv/privileggi107.pdf
- 46. Marchese, C. and F. Privileggi (2007), Increasing the Efficiency of the 'Studi di Settore' Might Backfire, *POLIS Working Paper* 92, Alessandria (Italy). http://polis.unipmn.it/pubbl/RePEc/uca/ucapdv/marchese92.pdf
- Cozzi, G. and F. Privileggi (2002), Wealth Polarization and Pulverization in Fractal Societies, *ICER Working Paper* 39, Torino (Italy). https://www.bemservizi.unito.it/repec/icr/wp2002/privileggi39-02.pdf
- Marchese, C. and F. Privileggi (2002), The Cutoff Policy of Taxation When Taxpayers are Risk Averse, *DISEFIN Working Paper* 7, Genova (Italy). https://core.ac.uk/download/pdf/301905397.pdf

Other Publications

- 49. Privileggi, F. (1995), Metodi Ricorsivi per L'Ottimizzazione Dinamica Stocastica (in Italian), *PhD Thesis*, Università di Trieste (Italy).
- 50. Privileggi, F. (1989), Il Settore Non Profit Nell'Economia di Mercato: Interpretazioni Alternative (in Italian), in Alberto Mortara (ed.), *Collana di studi e monografie* n. **80**, Milano: CIRIEC (Italy).

Conference Proceedings

51. Montrucchio, L. and F. Privileggi (1998), Fast Growing Stochastic Dynamic Models, *Atti del XXII Convegno AMASES*, Genova (Italy), 371–382.

Teaching manuals

- 52. Mattalia, C. and F. Privileggi (2017), *Matematica per le Scienze Economiche e Sociali, Volume 2: Algebra lineare, funzioni di più variabili e ottimizzazione statica* (in Italian), Milano: Maggioli Editore (Italy).
- 53. Mattalia, C. and F. Privileggi (2015), *Matematica per le Scienze Economiche e Sociali, Volume 1: Funzioni di Una Variabile* (in Italian), Milano: Maggioli Editore (Italy).
- 54. Privileggi, F. (2012), *Compendio di Matematica per l'Economia: un percorso esaustivo ma user-friendly* (second ed., in Italian), Vol. **44/6**, Napoli: EsseLibri Simone (Italy).
- 55. Privileggi, F. (2007), *Compendio di Matematica per l'Economia: un percorso esaustivo ma user-friendly* (in Italian), Vol. **44/6**, Napoli: EsseLibri Simone (Italy).

VISITING PERIODS AND FELLOWSHIPS

- May 13–27, 2023: Visiting scholar at SKEMA Business School and Université Côte d'Azur, Sophia Antipolis (France): collaboration with Prof. Davide La Torre on the project *Calculus of Variations with respect to Fractal Measures and Application to Economic Growth*.
- Mar 26–Apr 8, 2023: Visiting scholar at SKEMA Business School and Université Côte d'Azur, Sophia Antipolis (France): collaboration with Prof. Davide La Torre on the project *Stochastic Optimal Growth through State-Dependent Probabilities*.
- Feb 2004–June 2004: Visiting scholar at Department Of Economics, Cornell University (Ithaca NY, USA): collaboration with Prof. Tapan Mitra on the project *Cantor Type Distributions in One-Sector Optimal Growth Models under Uncertainty*.
- Mar 2002–June 2002: Visiting scholar at Department Of Economics, Cornell University (Ithaca NY, USA): collaboration with Prof. Tapan Mitra on the project *Cantor Type Invariant Distributions in the Theory of Optimal Growth under Uncertainty.*
- Mar 2000–June 2000: Visiting scholar at Department Of Economics, Cornell University (Ithaca NY, USA), with the support of a Short-Term Mobility scholarship issued by CNR: collaboration with Prof. Tapan Mitra on the project *The Nature of the Steady State in Models of Optimal Growth Under Uncertainty*.
- Jan 1999–June 1999: Visiting scholar at Department Of Economics, Cornell University (Ithaca NY, USA), with the support of a NATO-CNR Senior scholarship: participation in the *Macro Workshop* (co-ordinator Prof. Karl Shell).

INVITED SEMINARS

- 2023: Stochastic Disease Spreading and Containment Policies under State-Dependent Probabilities, with D. La Torre, S. Marsiglio and F. Mendivil; invited talk for the Dynamical Systems Workshop at SKEMA Business School and I3S Laboratory (Université Côte d'Azur), Sophia Antipolis (France).
- 2023: *Stochastic Optimal Growth through State-Dependent Probabilities*, with D. La Torre, S. Marsiglio and F. Mendivil; invited talk for the Analytics and Management Science Seminars at SKEMA Business School and Université Côte d'Azur, Sophia Antipolis (France).
- 2011: Intellectual Property Rights and Market Production of Knowledge in a Decentralized Endogenous Recombinant Growth Model, with C. Marchese, S. Marsiglio and G. Ramello; invited talk for the Seminars in Economics at the Department of Economics, Business and Statistics, Università di Milano, Milano (Italy).

- 2011: What Iterated Function systems and Fractals have to do with Economic Growth; invited talk for the Shape and Size in Medicine, Biotechnology Materials Science and Social Sciences Workshop, Department of Mathematics, Università di Milano, Milano (Italy).
- 2008: *Intellectual Property Rights, Knowledge Production, and Endogenous Growth*, with G. Ramello; invited talk for the Economic Theory Conference in honor of Professor Tapan Mitra on his 60th birthday, Cornell University, Ithaca NY (USA).
- 2007: *The Fractal Nature of Inequalities in Societies with Equal Opportunities*, with G. Cozzi; invited talk for the Economic Theory Seminar, CORE-ECORE, Louvain La Neuve (Belgium).
- 1999: On Fragility of Bubbles in Equilibrium Asset Pricing Models of Lucas-Type, with L. Montrucchio; Invited talk for the Macroeconomics Workshop, Cornell University, Ithaca NY (USA), May 27, 1999.
- 1999: *Fractal Steady States in Stochastic Optimal Control Models*, with L. Montrucchio; Invited talk for the Macroeconomics Workshop, Cornell University, Ithaca NY (USA).

CONFERENCE PRESENTATIONS

- 2022: *Stochastic Disease Spreading and Containment Policies under State-Dependent Probabilities*, with D. La Torre, S. Marsiglio and F. Mendivil; MDEF2022, Modelli Dinamici in Economia e Finanza Workshop, Urbino (Italy).
- *Stochastic Optimal Growth through State-Dependent Probabilities*, with D. La Torre, S. Marsiglio and F. Mendivil:
 - 2022: 13th Viennese Workshop on Optimal Control and Dynamic Games, Vienna (Austria).
 - 2021: NED 2021, 12th Nonlinear Economic Dynamics Conference, Milano (Italy).
- 2019: Self-similar Attractors in Solow-type Public Debt Dynamics Generated by Iterated Function Systems on Density Functions, with D. La Torre, S. Marsiglio and F. Mendivil; NED 2019, 11th Nonlinear Economic Dynamics Conference, Kyiv (Ukraine).
- 2018: A Stochastic Economic Growth Model with Place-Dependent Probabilities, with D. La Torre, S. Marsiglio and F. Mendivil; MDEF2018, Modelli Dinamici in Economia e Finanza Workshop, Urbino (Italy).
- 2018: *Growth Maximizing Government Size and Social Capital*, with G. Carmeci and L. Mauro; 14th Viennese Conference on Optimal Control and Dynamic Games, Vienna (Austria).
- 2017: *Who should fear Big Governments? A Model of Social Capital, Rule of Law and Growth*, with G. Carmeci and L. Mauro; 41st AMASES Meeting, Cagliari (Italy).
- A Competitive Idea-Based Growth Model with Shrinking Workers' Income Share, with C. Marchese:
 - 2017: Conference on Finance and Economic Growth in the Aftermath of the Crisis, Milano (Italy).
 - 2016: 15th Journées Louis-André Gérard-Varet Conference in Public Economics, Aix-En-Provence (France).
 - 2015: 13th Viennese Workshop on Optimal Control and Dynamic Games, Vienna (Austria).
- 2016: Fractal attractors and singular measures in multi-sector growth models with random shocks on factor shares, with D. La Torre, S. Marsiglio and F. Mendivil; MDEF2016, Modelli Dinamici in Economia e Finanza Workshop, Urbino (Italy).
- 2015: *Endogenous Economic Growth with Disembodied Knowledge*, with C. Marchese; 39th AMASES Meeting, Padova (Italy).
- 2014: *Self-Similar Measures in Multi-Sector Endogenous Growth Models*, with D. La Torre, S. Marsiglio and F. Mendivil; MDEF2014, Modelli Dinamici in Economia e Finanza Workshop, Urbino (Italy).

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- 2013: Takeoff vs. Stagnation in Endogenous Recombinant Growth Models: XXXVII AMASES Meeting, Stresa (Italy).
- 2013: Endogenous Recombinant Growth through Market Production of Knowledge and Intellectual Property Rights with C. Marchese, S. Marsiglio and G. Ramello; 12th Journées Louis-André Gérard-Varet Conference in Public Economics, Aix-En-Provence (France).
- Intellectual Property Rights and Market Production of Knowledge in a Decentralized Endogenous Recombinant Growth Model, with C. Marchese, S. Marsiglio and G. Ramello:
 - 2012: MDEF2012, Modelli Dinamici in Economia e Finanza, Urbino (Italy).
 - 2012: XXXVI AMASES Meeting, Vieste (Italy).
- 2011: The Cutoff Policy of Taxation When CRRA Taxpayers Differ in Risk Aversion Coefficients and Income, with C. Marchese; 10th Journées Louis-André Gérard-Varet Conference in Public Economics, Marseille (France).
- 2010: Transition Dynamics in Endogenous Recombinant Growth Models by means of Projection Methods; MDEF2010, Modelli Dinamici in Economia e Finanza Workshop, Urbino (Italy).
- 2010: *Tax Evasion in a Principal-Agent Model with Self-Protection* with C. Marchese and R. Biswas; XXXIV AMASES Meeting, Macerata (Italy).
- Intellectual Property Rights, Knowledge Production, and Endogenous Growth, with G. Ramello:
 - 2008: Open Societies vs Intellectual Enclosures: Innovation, Imitation and Economic Growth Workshop, Università degli Studi del Piemonte Orientale *A. Avogadro*, Alessandria (Italy).
 - 2008: MDEF2008, Modelli Dinamici in Economia e Finanza, Urbino (Italy).
 - 2008: 1st Workshop on Dynamics, Optimal Growth and Population Change: Theory and Applications, Università di Milano (Italy).
- 2006: *The Cutoff Policy of Taxation When Taxpayers are Heterogeneous and Risk Averse*, with C. Marchese; XXX AMASES Meeting, Trieste (Italy).
- 2004: *Cantor Type Distributions in One-Sector Optimal Growth Models under Uncertainty*, with T. Mitra; MDEF2004, Modelli Dinamici in Economia e Finanza, Urbino (Italy).
- 2003: *Cantor Type Invariant Distributions in the Theory of Optimal Growth under Uncertainty*, with T. Mitra: XXVII AMASES Meeting, Cagliari (Italy).
- 2002: *The Fractal Nature of Inequality in Societies with Equal Opportunities*, with G. Cozzi; XXVI AMASES Meeting, Verona (Italy).
- Wealth Polarization and Pulverization in Fractal Societies, with G. Cozzi:
 - 2002: Summer School in Economic Theory, 2nd edition, Intertemporal Macroeconomics: Growth, Fluctuations, and the Open Economy, SET Center for Advanced Studies in Economic Theory, Isola di San Servolo, Venezia (Italy).
 - 2002: The Cornell-PSU Macro Workshop, Pennsylvania State University, State College PA (USA).
 - 2001: XXV AMASES Meeting, Firenze (Italy).
- *The Nature of the Steady State in Models of Optimal Growth Under Uncertainty*, with T. Mitra and L. Montrucchio:
 - 2001: V Conference of the Society for the Advancement in Economic Theory, Ischia (Italy).
 - 2000: MDEF2000, Modelli Dinamici in Economia e Finanza, Urbino (Italy).
 - 2000: XXIV AMASES Meeting, Padenghe (Italy).

- 2001: On Fragility of Bubbles in Equilibrium Asset Pricing Models of Lucas-Type, with L. Montrucchio; II Workshop in Mathematical Finance, Pisa (Italy).
- 1998: Fast Growing Stochastic Dynamic Models, with L. Montrucchio; XXII AMASES Meeting, Genova (Italy).
- 1997: *Fractal Steady States in Stochastic Optimal Control Models*, with L. Montrucchio; 6th Viennese Workshop on Optimal Control, Dynamic Games, Nonlinear Dynamics and Adaptive Systems, Wien (Austria).
- 1997: Agent's Liability Versus Principal's Liability when Attitudes Toward Risk Differ, with A. Cassone and C. Marchese; Annual Conference of the Canadian Law and Economics Association (CLEA), Toronto (Canada).
- 1995: A Characterization for Solutions of Stochastic Discrete Time Optimization Models; XIX AMASES Meeting, Pugnochiuso (Italy).

BOARD MEMBERSHIPS

- April 2014–present: Member of the Faculty Board of the International Ph.D. programme in *Comparative Analysis of Institutions, Economics and Law (IEL)*, Università di Torino and Collegio Carlo Alberto (Torino, Italy).
- May 2009–Dec. 2010: Member of the Faculty Board of the Ph.D. programme in *Economic Sciences* (*DSE*), Università di Torino and Collegio Carlo Alberto (Torino, Italy).

INSTITUTIONAL RESPONSIBILITIES

- Oct. 2021–present: Member of the Teaching Committee of the Department of Economics and Statistics "Cognetti de Martiis", Università di Torino (Torino, Italy).
- Oct. 2016–Dec. 2019: Chair of the Master Degree Programme in *Statistical and Economical Methods for Decisions* (SEED, https://www.seed.unito.it/), Department of Economics and Statistics "Cognetti de Martiis", Università di Torino (Torino, Italy).
- May 2014–Dec. 2019: Member of the "Cognetti de Martiis" Library Committee, Università di Torino (Torino, Italy).
- Jan. 2014–Dec. 2018: Member of the Committee "Commisione Didattica Paritetica" of the Degree Programme in *Economics and Statistics for the Organizations*, Department of Economics and Statistics "Cognetti de Martiis", Università di Torino (Torino, Italy).
- Jan. 2015–Dec. 2018: together with prof. Dalit Contini, Member of the sub-committee of the Teaching Committee of the Department of Economics and Statistics "Cognetti de Martiis", Università di Torino (Torino, Italy) dedicated to planning the educational offer of the Department.
- Feb. 2009–June 2013: Chair of the International Master Degree Programme in *Economic and, Public Policy, Environment and Culture*, Department *DiGSPES POLIS*, Università degli Studi del Piemonte Orientale *A. Avogadro*, (Alessandria, Italy).

PH.D. EXTERNAL EXAMINER

• 2012: Roberto Ippoliti, IEL Ph.D., Università di Torino and Collegio Carlo Alberto, Moncalieri (Torino, Italy), Thesis on *The Market of Human Experimentation, a Law and Economics Analysis of the Pharmaceutical Clinical Research*.

- Jan. 2020–present: Katsiaryna Bahamazava, IEL Ph.D. student, Università di Torino and Collegio Carlo Alberto (Torino, Italy); Ph.D. Thesis on *Dark Net Market, Criminal Activities and Cryptocurrencies: Comparative Law and Economic Analysis.*
- Dec. 2010–Nov. 2011: Simone Marsiglio, Post-Doc, Department of Public Policy and Public Choice "POLIS", Università degli Studi del Piemonte Orientale A. Avogadro (Alessandria, Italy); research projects Endogenous Recombinant Growth Models and Fractal Attractors in Multi-Sector Optimal Growth Models under Uncertainty.

EDITORIAL ACTIVITY

• Apr. 2012–present: Associate editor of the *International Journal of Applied Nonlinear Science* (Inderscience).

AD HOC REFEREEING

Annals of Operations research (Springer), Chaos, Solitons & Fractals (Elsevier), Communications in Nonlinear Science and Numerical Simulation (Elsevier), Decisions in Economics and Finance (Springer-Verlag), Economic Modelling (Elsevier), Economic Theory (Springer-Verlag), Economics of Innovation and New Technology (Routledge, Taylor & Francis), European Journal of Comparative Economics (Università Carlo Cattaneo - LIUC), European Journal of Law and Economics (Springer-Verlag), International Economic Review (University of Pennsylvania), Journal of Economic Behavior and Organization (Elsevier), Journal of Economic Dynamics and Control (Elsevier), Journal of Economics (Springer-Verlag), Journal of Optimization Theory and Applications (Springer-Verlag), Journal of Public Economic Theory (Wiley), Macroeconomic Dynamics (Cambridge University Press), Mathematical Review (American Mathematical Society), Mathematics and Computers in Simulation (Elsevier), Research in Economics – Ricerche Economiche (Università Ca' Foscari di Venezia), Technological Forecasting and Social Change (Elsevier).

MEMBERSHIP

- The American Mathematical Society (AMS).
- Associazione per la Matematica Applicata alle Scienze Economiche e Sociali (AMASES).
- Finance and Growth lab (FinGro, Department of Economics, Management and Quantitative Methods, University of Milano).
- International Society of Difference Equations (ISDE).

TEACHING

Graduate Level

- 2008-present: APPLIED MATHEMATICS (taught in English), International Ph.D. programme in *Comparative Analysis of Institutions, Economics and Law (IEL)*, Università di Torino and Collegio Carlo Alberto (Torino, Italy).
- 2010 to 2011: INTRODUCTORY MATHEMATICS (taught in English), Ph.D. programme in *Economic Sciences (DSE)*, Università di Torino and Collegio Carlo Alberto, Moncalieri (Torino, Italy).

Master Level

- 2016–present: MATHEMATICS, Master Degree in *Statistical and Economical Methods for Decisions*, Department of Economics and Statistics "Cognetti de Martiis", Università di Torino (Torino, Italy).
- 2017–2018: GROWTH THEORY, Master Degree in textitStatistical and Economical Methods for Decisions, Department of Economics and Statistics "Cognetti de Martiis", Università di Torino (Torino, Italy).
- 2013–2015: MATHEMATICS, Master Degree in *Statistics, Economics and Management*, Department of Economics and Statistics "Cognetti de Martiis", Università di Torino (Torino, Italy).
- 2009–2013: QUANTITATIVE METHODS FOR ECONOMICS II, International Master Degree in *Economics* and Public Policy, Environment and Culture (EPPAC), Department DiGSPES POLIS, Università del Piemonte Orientale A. Avogadro (Alessandria, Italy).
- 2012 to 2013: ECONOMIC GROWTH (taught in English), International Master Degree in *Economics* and Public Policy, Environment and Culture (EPPAC), Department DiGSPES POLIS, Università del Piemonte Orientale A. Avogadro (Alessandria, Italy).
- 2009–2010: MACROECONOMICS II, International Master Degree in *Economics and Public Policy, Environment and Culture (EPPAC)*, Department *DiGSPES POLIS*, Università del Piemonte Orientale *A. Avogadro* (Alessandria, Italy).
- 2003–2008: QUANTITATIVE METHODS FOR ECONOMICS II, International Master Degree in *Economics* and Public Policy, Environment and Culture (EPPAC), Department of Public Policy and Public Choice "POLIS", Università del Piemonte Orientale A. Avogadro (Alessandria, Italy).
- 2007–2008: QUANTITATIVE METHODS FOR ECONOMICS (taught in English together with prof. Cristina Uberti), *CORIPE Master in Economics*, Collegio Carlo Alberto, Moncalieri (Torino, Italy).
- 2000: teaching assistant for QUANTITATIVE METHODS FOR ECONOMICS (taught in English, instructor prof. Luigi Montrucchio), *CORIPE Master in Economics*, Collegio Carlo Alberto, Moncalieri (Torino, Italy).

Undergraduate Level

- 2013-present: MATHEMATICS FOR SOCIAL SCIENCES, Degree Programme in *Economics and Statistics for the Organizations*, Department of Economics and Statistics "Cognetti de Martiis", Università di Torino (Torino, Italy).
- 2003–2008: QUANTITATIVE METHODS FOR ECONOMICS I, Degree Programme in *Political, Economic and Social Sciences for the Administration*, Department *DiGSPES POLIS*, Università del Piemonte Orientale *A. Avogadro*, Alessandria (Italy).
- 2000–2003: FINANCIAL CALCULUS, Degree Programme in *Political, Economic and Social Sciences for the Administration*, Department of Public Policy and Public Choice "POLIS", Università del Piemonte Orientale *A. Avogadro*, Alessandria (Italy).
- 2000: FINANCIAL AND ACTUARIAL CALCULUS, Degree Programme in *Labor Consultants*, Department of Public Policy and Public Choice "POLIS", Università del Piemonte Orientale A. Avogadro, Asti (Italy).
- 2000: MATHEMATICS FOR ECONOMICS, Degree Programme in *Political Sciences*, Department of Public Policy and Public Choice "POLIS", Università del Piemonte Orientale A. Avogadro, Alessandria (Italy).
- 1999: MATHEMATICS FOR SOCIAL SCIENCES, Old System Degree Programme in *Political Sciences*, Department of Public Policy and Public Choice "POLIS", Università del Piemonte Orientale *A. Avogadro*, Alessandria (Italy).

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OTHER PROFESSIONAL ACTIVITIES

- Nov. 1989–Jul. 1990: Collaboration in a research program on the Impact of the Friuli Venezia Giulia Regional Public Spending at the *Center of Economic and Social Research S.r.l.*, Udine (Italy).
- Dec. 1988–Jul. 1989: Professional Master in *Finance and Capital Markets* with final stage at the Bank of Cooperative Economy at A.G.F. Cooperatives' League, Bologna (Italy).

LANGUAGES

Italian (mother tongue), English (advanced).

COMPUTING SKILLS

Windows: Maple, LaTex, Scientific Workplace and Office.

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