

Curriculum vitae of Stefano Patrì

Personalalia

Date and place of birth: May 12, 1970 in Rome

Nationality: italian

Academic address: University “Sapienza” of Rome; Dep. of *Methods and Models for Economics, Territory and Finance*; via del Castro Laurenziano, 9, I-00161 Rome, ITALY

Phone number: 06-49766278

Email: stefano.patri@uniroma1.it

Actual academic position

Since 2006, November the 1st, Permanent position as Researcher in Mathematics at the Department of “Metodi e Modelli per l’Economia, il Territorio e la Finanza” (Department of Methods and Models for Economics, Territory and Finance), University “Sapienza” of Rome.

Education

1. Mathematics at University “Sapienza” of Rome: Master’s degree obtained on March 15, 1995 with evaluation 101/110. Title of Master’s thesis: *Semi-continuity Theorems in the calculus of variations*. Supervisor: Prof. Lucio Boccardo;
2. Doctoral studies and research at University “Sapienza” of Rome: Ph.D. degree in Mathematics for the economic and financial Applications obtained on March 23, 2001. Title of the thesis: *Un Modello Dinamico del Tasso di Cambio per l’Analisi dell’eventuale Presenza di Caoticità nella sua Evoluzione*. Supervisor: Prof. Giancarlo Gandolfo;
3. Physics at University “Sapienza” of Rome: Master’s degree obtained on January 29, 2004 with evaluation 107/110. Title of Master’s thesis: *Misura della Sezione d’Urto di Produzione di $Z^0 \rightarrow \mu^+ \mu^-$ con i dati dell’Esperimento CDF del Tevatron Fermilab*. Supervisor: Prof. Maurizio Iori.

Grants

1. Scholarship *Assegno di Ricerca* from “Sapienza” University of Rome (2001-2005).

Teaching activities

1. From 1997-98 to 2006-07, responsible for the exercise session of the course *General Mathematics* in the faculty of Economics at “Sapienza” University of Rome;
2. from 2001-02 to 2003-04, responsible for the exercise session of the course *Mathematical Analysis I-II* and *Geometry* in the faculty of Engineering at “Sapienza” University of Rome;
3. from 2002-03 to 2004-05, responsible for the exercise session of the course *General Physics (Mechanics and Thermodynamics)* in the faculty of Mechanical Engineering at the University “Roma3”;
4. in 2004-05, responsible for the course *Mathematical Analysis II* in the faculty of Engineering at “Sapienza” University of Rome;
5. from 2004-05 to 2006-07, responsible for the course *General Mathematics* in the faculty of Economics at the online University “G. Marconi” of Rome;
6. from 2006-07 to current year, responsible for the courses *Matematica Corso Base* and *Complementi di Matematica Generale* (first level degree), *Advanced Mathematics for Economics and Business* (in italian and english language) for graduate and PhD students in the faculty of Economics at “Sapienza” University of Rome;
7. in september 2007 and august 2009, responsible of the course *Complementi di Matematica Generale e Fondamenti di Matematica Finanziaria* at Universidad del Salvador of Buenos Aires (Argentina);
8. from 2010-11 to current year, responsible for the exercise session of the course *Quantum Mechanics* in the Department of Physics at “Sapienza” University of Rome.

Publications

Journal of Department

1. *Un Modello Dinamico di Crescita Economica in Presenza di Immigrazione Clandestina*, Journal of the Department of *Mathematics for the Decisions in Economics, Finance and Insurance* of “Sapienza” University of Rome, 2000;
2. *Un modello Dinamico del Tasso di Cambio per l’Analisi dell’Eventuale Presenza di Caoticità nella sua Evoluzione*, Journal of the Department of *Mathematics for the Decisions in Economics, Finance and Insurance* of “Sapienza” University of Rome, 2000;
3. *Un Modello Dinamico Discreto per l’Analisi dell’Impatto dell’Immigrazione su Obiettivi di Politica Economica*, Journal of the Department of *Mathematics for the Decisions in Economics, Finance and Insurance* of “Sapienza” University of Rome, 2002.

Proceedings of international Conferences and Congresses

1. *Un Modello Dinamico Discreto per l'Analisi dell'Impatto dell'Immigrazione su Obiettivi di Politica Economica*, XXVII AMASES Congress (2003);
2. *China's Entry into the WTO: the Impact on the Economies of the Countries in the South and the North of the World*, XXVIII AMASES Congress (2004);
3. *Optimal Public Expenditure Policies to have a fixed Ratio of the Public Deficit to Output*, XXIX AMASES Congress (2005);
4. *Public Expenditure and Taxation Policies: an optimal Choice of Fiscal Policy to reduce the Discrepancy between Current Income and its Full Employment Level*, XXX AMASES Congress (2006);
5. *A Continuous Time Stochastic Model of the Effects of the Technological Progress on the Economic Growth*, XXXI AMASES Congress (2007);
6. *A Stochastic Model for an Optimal Choice of the Public Expenditure and Fiscal Policy*, X Italian-Spanish Congress of Financial and Actuarial Mathematics, Cagliari, June 2008;
7. *Optimal Fiscal Policy in a Simple Macroeconomic Context*, 2nd Stochastic Modeling Techniques and Data Analysis, International Conference, 5-8 June 2012, Chania, Crete, Greece.

International Journals

1. Patrì, S., *Nuova dimostrazione del teorema di Euclide sul pentagono e decagono*, Progetto Alice, ISSN: 1972-0475, Vol. 5, N° 13, 2004-I, pp. 123-129;
2. Fargion, D., D'Armiento, D., Paggi, P., Patrì, S., *Lightest Nuclei in UHECR versus Tau Neutrino Astronomy*, Nuclear Physics B (Proc. Suppl.), Vol. 190, May 2009, pp. 162-166;
3. Burgio, G., Patrì, S., *The Most Efficient Linear Combination of the Sign and the Maesono Tests for p -normal Distributions*, Statistica, ISSN: 0390-590X, Vol. 4, 2011, pp. 411-420;
4. Correani, L., Di Dio, F., Patrì, S., *Optimal Growth and Migration in a Discrete-time Ramsey Model: a Note*, Journal of Academic Research in Economics, ISSN: 2066-0855, Vol. 4, Number 1, March 2012, pp. 1-10;
5. Patrì, S., *Sum of the generalized harmonic series with even natural exponent*, Rendiconti di Matematica e delle sue Applicazioni, ISSN: 1120-7183, Serie VII, Vol. 33, pages 19-26, 2013 (cit. in Moreno S., *A One-Sentence and Truly Elementary Proof of the Basel Problem*, available at <https://arxiv.org/pdf/1502.07667.pdf>);
6. Correani, L., Di Dio, F., Patrì, S., *The Simple Analytics of Optimal Growth with Migration*, Quality & Quantity, ISSN: 0033-5177, DOI: 10.1007/s11135-014-0001-3, Vol. 48, N° 2, March 2014;

7. Correani, L., Di Dio, F., Patrì, S., *Optimal Choice of Fiscal Policy Instruments in a Stochastic IS-LM Model*, Mathematical Social Sciences, DOI:10.1016/j.mathsocsci.2014.04.002, ISSN: 0165-4896, Vol. 71, 2014, pages 30-42;
8. Mallozzi L., Patrì, S., Sacco A., *Differential Game Approach for International Environmental Agreements with Social Externalities.*, DOI:10.2139/ssrn.2649129. pp.135-154. In ACTA UNIVERSITATIS CAROLINAE. OECONOMICA, CZECH ECONOMIC REVIEW - ISSN:1802-4696 vol. 9 (3), 2015, handle: <http://hdl.handle.net/11573/1035085>;
9. Mallozzi L., Patrì, S., Sacco A., *International Environmental Agreements with Social Externalities: A Global Emission Game with Asymmetric Players*, DOI:10.12988/ams.2016.6259. pp.1731-1746. In APPLIED MATHEMATICAL SCIENCES - ISSN:1312-885X vol. 10 (35), 2016, handle: <http://hdl.handle.net/11573/1035086>;
10. Patrì, S., Sacco A., *Sequential Entry in Hotelling Model with Location Costs: A Three-Firm Case*, in SPATIAL INTERACTION MODELS, Facility Location Using Game Theory - ISSN 1931-6828, (2017), DOI:10.1007/978-3-319-52654-6. pp. 261-272, handle: <http://hdl.handle.net/11573/1466965>;
11. De Marchis, R.; Grande, A.; Patrì, S.; Saitta, D., *An Application of Jordan Canonical Form to the Proof of Cayley-Hamilton Theorem*, DOI:10.12988/ams.2016.6259. pp.1731-1746. In ANNALI DEL DIPARTIMENTO DI METODI E MODELLI PER L'ECONOMIA, IL TERRITORIO E LA FINANZA - ISSN 2385-0825. - (2019), pp. 43-48, handle: <http://hdl.handle.net/11573/1355445>;
12. De Angelis P., De Marchis R., Martire A., Patrì S., *Non-standard Volterra integral equations: a mean-value theorem numerical approach*, DOI:10.12988/ams. pp.423-432. In APPLIED MATHEMATICAL SCIENCES - ISSN:1314-7552 vol. 14 (9), 2020, handle: <http://hdl.handle.net/11573/1355445>.

Referee activity

Referee for

Quarterly Review of Economics and Finance

Books

1. Testa, M., Patrì, S., *Fondamenti di Meccanica Quantistica*, Ed. Nuova Cultura, 2017;
2. Patrì, S., *Introduzione alla Meccanica Quantistica Relativistica*, Ed. Nuova Cultura, 2017.

Computer Skills

1. **Windows:** good knowledge;
2. **Linux:** good knowledge;
3. **Office:** good knowledge;
4. **Latex:** excellent knowledge;
5. **Mathematica Wolfram:** good knowledge;
6. **C language:** good knowledge.

Foreign languages knowledge

1. **German:** excellent knowledge, spoken (understanding, speaking) and written (reading, writing);
2. **English, French and Spanish:** good knowledge in reading mathematical and physical material.

Rome, 14/6/2021

Stefano Patrì