Giacomo Morelli

Department of Statistical Sciences,
Sapienza University of Rome,
Italy.

Current Position

20.03.2020 - *Assistant Professor - RTD-A*, Competing Sector: 13/D4, Scientific Academic Sector: SECS-S/06, Mathematical Methods for Economics, Insurance, and Finance.

Previous Academic Position

01.09.2019 - 19.03.2020 *PostDoc*, SECS-S/06. Luiss Guido Carli, Rome
Research Project: Modeling energy prices.

01.04.2018 - 31.03.2019 *Post-Doc*, SECS-S/06. LUISS Guido Carli. Funded by the European Commission.
Research Project: Conflict resolution with equitative algorithms.

2018 *Lecturer* Financial and Actuarial Mathematics - 8 CFU, Master in Business and Administration, School of Political European Economy, LUISS Guido Carli and MEFOP.

Education

2017 PHD in Statistical Sciences, Department of Statistical Sciences, Sapienza University of Rome.

2015 VISITING STUDENT Universitat Pompeu Fabra, Barcelona, Spain.

2014 MASTER in Economics and Finance, Barcelona Graduate School of Economics, Spain.

2013 LAUREA MAGISTRALE (M.Sc.) in Finance and Insurance, Faculty of Economics, Sapienza University of Rome.

2009 LAUREA TRIENNALE (B.A.) in Banking Insurance and Financial Markets, Faculty of Economics, Sapienza University of Rome.

Teaching Activity

2021 *Lecturer* Financial Risk Management - 9 CFU, Graduate course, (in English), Department of Statistical Sciences, Sapienza University of Rome.

2020 *Lecturer* Mathematics for Investments - 16 hours, PhD course, (in English), PhD School of Economics, Sapienza University of Rome.

2020 *Lecturer* Financial Risk Management - 9 CFU, Graduate course, (in English), Department of Statistical Sciences, Sapienza University of Rome.

2020 *Teaching Assistant (T.A.)* Empirical Finance - 8 CFU, Graduate course, (in English), Department of Economics and Finance, LUISS Guido Carli.

2020 *T.A.* Statistics - 8 CFU, Undergraduate course, (in English), Department of Economics and Finance, LUISS Guido Carli.

2019 *T.A.* Quantitative Methods for Finance - 8 CFU, Graduate course, (in English), Department of Economics and Finance, LUISS Guido Carli.

2019 *T.A.* Empirical Finance - 8 CFU, Graduate course, (in English), Department of Economics and Finance, LUISS Guido Carli.

2019 *T.A.* Statistics - 8 CFU, Department of Economics and Finance, Undergraduate course, (in English), LUISS Guido Carli.

2018 *T.A.* Quantitative Methods for Finance - 8 CFU, Graduate course, (in English), Department of Economics and Finance, LUISS Guido Carli.

2018 *T.A.* Empirical Finance - 8 CFU, Graduate course, (in English), Department of Economics and Finance, LUISS Guido Carli.

2018 *T.A.* Statistics - 8 CFU, Undergraduate course, (in English), Department of Economics and Finance, LUISS Guido Carli.

2018 *Lecturer* Financial and Actuarial Mathematics - 6 CFU, (in Italian), Master in Business and Administration, Department of Economics and Finance, LUISS Guido Carli.

2017 *T.A.* Quantitative Methods for Finance - 9 CFU, Graduate course, (in English), Department of Economics and Finance, LUISS Guido Carli.

Honours and Awards

2014 Barcelona Graduate School of Economics grant for deserving students.

2014 Best Paper Award on Corporate Finance for the paper "Liquidity Grids" Barcelona Graduate School of Economics.

2007 Laziodisu Sapienza University grant for deserving students.

2006 Laziodisu Sapienza University grant for deserving students.

Society memberships

2021 The International Association for Energy Economics (IAEE).

2018 Commodity & Energy Markets Association (CEMA).

Grants

2021 Principal Investigtor - Sustainable Investments: Key Performance Indicators and Financial Risk Mitigation. Under review.

2020 Investigator Sustainability and ESG: risk drivers and corporate profitability - n.RM1201728E21E639, Euro 10.00.0

2019 GNAMPA Research Affiliate 13/D4, SECS-S/06.

Areas of Specialization

Primary fields: Financial Risks • Quantitative Finance
Secondary field: Energy Finance.

Editorial Activity

Sep 2020- Guest Editor, S.I. "Advanced Risk Analysis and Short-Term Forecast Model for Global Energy Market", Energies.

Referee Activities

Referee for Journal of Banking and Finance, Review of Derivative Research, Theory and Decision, Energies, Decisions in Economics and Finance.

Conferences & Seminars as invited speaker

- Workshop on Liquidity, Freiburg University, 2019 "Liquidity-at-Risk" (invited speaker).
- Seminar Series, Aarhus University, 2019 "Liquidity-at-Risk" (invited speaker).

Conferences & Seminars as speaker

- EURO, Athens 2021 "Stochastic Ordering of Systemic Risk in Commodity Markets" (speaker).
- 7th International Young Finance Scholars' Conference, London 2021 "Variance Risk Premiums in Energy Markets: Ex-ante vs. Ex-post perspectives" (speaker).
- CEMA, Madrid 2021 "Responsible Investments Reduce Market Risks" (speaker).
- FIBA, Bucharest 2021 "Variance Risk Premiums in Energy Markets: Ex-ante vs. Ex-post perspectives" (speaker).
- International Conference on Climate and Energy Finance, Beijing 2021, "Variance Risk Premiums in Energy Markets: Ex-ante vs. Ex-post perspectives" (speaker).
- 30th Jerusalem Advanced School of Economics: Finance, Jerusalem 2019, "Liquidity-at-Risk" (speaker).
- BGSE (weekly) Economic Seminars, Barcelona 2014, 2015 (speaker at 15 seminars).

Conferences & Seminars as participant

- International Summer School on Risk Measurement and Control, LUISS 2018 (participant).
- Barcelona Graduate School of Economics (BGSE) Summer Forum, Barcelona 2014, 2015 (participant).
- 12th European Summer School in Financial Mathematics, Padova 2019 (participant).
- ERCIM, London 2015 (participant).

Publications

1. Maccarrone, G., Morelli, G, and Spadaccini, S. (2021) GDP Forecasting: Machine Learning, Linear or Autoregression? *Artificial Intelligence in Finance, Frontiers* accepted for pubblication.
2. Morelli, G., and D'Ecclesia R. L. (2021). Responsible Investments Reduce Market Risks. *Decisions in Economics and Finance* accepted for publication (**Fascia A**, I.F. **0.74**).
3. Andreani, M., Candila, V., Morelli, G., and Petrella, L. (2021). Multivariate Analysis of Energy Commodities during the COVID-19 Pandemic: Evidence form a Mixed-Frequency Approach *Risks*, 9:144.

4. Morelli, G., and Petrella, L. (2021). Option Pricing, Zero Lower Bound, and COVID−19. *Risks*, 9:167.

5. Foroni, B, Mazza, S. Morelli, G, and Petrella, L. (2020). GLASSO Estimation of Commodity Risks, Book of Short Papers, Proceedings of the Italian Statistical Society p. p.957-962.

6. Corona, F., Dall'Aglio, M., and Morelli, G.(2019). The application of fair division systems in cases involving the judicial division of assets. *Jusletter-IT*, p.1-8.

7. Morelli, G.(2019). A unified approach for interest rates derivatives pricing. *Annals of Operations Research*, 299 (**Fascia A**, I.F. **4.854**).

8. Morelli, G.(2019). Liquidity drops. *Annals of Operations Research*, 299:711-719 (**Fascia A**, I.F. **4.854**).

9. Morelli, G., and Santucci de Magistris, P. (2019). Volatility tail risk under fractionality. *Journal of Banking and Finance*, 108: 105654 (**Fascia A**, I.F. **3.07**).

Working Papers

1. Morelli, G., and Petrella, L. (2019). Dynamic asymmetric dependence in financial markets. *Working Paper n.161/2019 Dipartimento MEMOTEF, Sapienza Università degli Studi di Roma.*

2. Morelli, G., and Petrella, L. (2019). On skewness in interest rates. *Working Paper n.162/2019 Dipartimento MEMOTEF, Sapienza Università degli Studi di Roma.*

Under Review

1. Morelli, G.(2021). Variance Risk Premium in energy Markets: Ex-ante vs. Ex-post Perspectives.

2. Morelli, G.(2021). Stochastic ordering of systemic risk measures in commodity markets.

3. Morelli, G., D'Ecclesia, R.L. (2021). Emission Trading System: prices, reduction, and trade.

4. Foroni, B., Morelli, G., Petrella, L. (2021). Value-at-Risk in the network of commodities.

5. Morelli,G. (2021). Liquidity-at-Risk.

Technical Reports

1. Dall'Aglio, M., Morelli, G. (2018). Conflict Resolutions with Equitative Algorithms (CREA) - Report on Adaptation of Existing Results. European Commission Reports, Justice Department.

Languages

Italian (mother tongue);
English (fluent);
Spanish (fluent);
French (independent user);
German (basic user).

Computer Skills

Operating Systems: Linux, Windows.
Softwares: LaTeX, Office, Bloomberg, Profis, Costab (beginner).
Programming Languages: Matlab, R, VBA, WinBugs (beginner).

Voluntary Service

Summer 2010 Benin, Africa. Assistance to low-income families.
Summer 2008 Togo, Africa. Assistance to low-income families.
Summer 2006 Lima, Cusco and Arequipa, Perù. Assistance to homeless. Girls and young women's education.
Summer 2004 Lima, Ica and Loreto, Perù. Childcare for children with cleft lip.

In conformità a quanto prescritto dall'art. 4 del Codice in materia di protezione dei dati personali e dall'art. 26 del D. Lgs. 14 marzo 2013, n. 33, "ai fini della pubblicazione".

Roma, 15.09.2021

Giacomo Morelli