Giovanna Apicella

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November 2021 https://sites.google.com/view/giovanna-apicella/home-page

Curriculum Vitae

Academic position

Jul. 2018 - present: Post-Doc, Faculty of Mathematics and Statistics, School of Economics and Political Science, University of St. Gallen. *Supervisor*: Prof. Enrico G. De Giorgi.

Academic Degrees

Doctor of Philosophy - Doctor Europaeus degree in School of Statistical Sciences-Curriculum Actuarial Sciences, Sapienza University of Rome (Italy), 2018; grade: excellent.
Ph.D. Supervisor: Prof. Marilena Sibillo.
Ph.D. thesis: *Stochastic Mortality in a Complex World: Methodologies and Applications within the Affine Diffusion Framework*.

Master's degree in Statistical Sciences for Finance, University of Salerno (Italy), 2014. Grade: 110 cum laude/110.
Master's thesis in Financial and actuarial mathematics Advanced Course: *Markov and semi- Markov Models in Long-term Health Insurances.*

Bachelor's degree in Economics, University of Salerno (Italy), 2011. Grade: 110 cum laude/110.

Diploma di Maturità : 2008, Liceo Classico Publio Virgilio Marone, M. S. Severino (Italy). Grade: 100 cum laude/ 100.

Project funding, awards and fellowships

SNSF Grant: 2019-2021. Project *Combining Actuarial and Behavioural Perspectives to the Understanding of Longevity Risk*, funded by the Swiss National Science Foundation (SNSF) through grant n. 189093 and conducted at the University of St. Gallen, `https://p3.snf.ch/project-189093`.

PhD Thesis Award- 2019. Award for the best doctoral dissertation defended in the period from June 1st, 2015, to May 31st, 2018, granted by the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES).

PhD fellowship- Nov. 2014 - Oct. 2017. PhD fellowship from Sapienza University of Rome.

Mobility Fellowship- Feb.-Apr. 2017. Mobility fellowship (merit based) from Sapienza University of Rome.
Host Institution: Cass Business School (now Bayes Business School), City, University of London, London, UK.
Awarded research project: *Study on the interest and mortality rates future dynamics: what evidence*

about their dependence?.

Master's Thesis Award- 2014. "Carmine Sica" Award (Ninth Edition, 2013-2014), granted by Rotary Club Salerno Picentia (Rotary International - District 2100 Italy), for the relevant quality of the Master's thesis.

Research traineeships and international collaborations

Dec. 2015 - May 2016 Fulltime Research Trainee for the Scientific Advisor of the CEO and Chairman of SCOR SE, Dr. Michel Dacorogna, at SCOR Services Switzerland Ltd., Zürich (CH).
Research topic: Long-term dependence between mortality and interest rate risks.

Nov. 2017 - Jul. 2018 Collaboration, within the Phase 3 of the research funded by the Society of Actuaries *Population Aging, Implications for Asset Values, and Impact for Pension Plans: An International Study*, with the international team from the University of Waterloo (Canada) and the University of Kent (UK).

Teaching activities

Autumn Semesters 2019 and 2020: Lecturer in *Mathematics for Economists* (6 ECTS credits), Major in Economics, School of Economics and Political Science (SEPS), University of St. Gallen.

Autumn Semesters 2018, 2020 and 2021: Lecturer in *Mathematics A: Exercises*, (3.50 ECTS credits), Assessment Year, University of St. Gallen.

Conference and seminar presentations

2021 XIII National Congress of Actuaries (planned); AMASES XLV Conference, ; Brown Bag Seminar 2021, School of Economics and Political Science (SEPS), HSG, Switzerland.

2019 AMASES XLIII Conference, Perugia, Italy; 23rd International Congress on Insurance: Mathematics and Economics (IME 2019), Munich, Germany; Polimi Finance Lunch Seminar, Politecnico of Milan, Italy.

2018 Mathematical and Statistical Methods for Actuarial Sciences and Finance (MAF 2018), Madrid, Spain.

2017 AMASES XLI Conference, Cagliari, Italy; "Actuarial Teachers' and Researchers' Conference" (ATRC 2017), University of Kent; SCOR Seminar, Zurich, Switzerland, "Recent Developments in Dependence Modelling with Applications in Finance and Insurance-Fourth Edition", Aegina, Greece; 2017 Winter School on "Perspectives on Actuarial Risks in Talks of Young researchers (PARTY)", Ascona, Switzerland.

2016 UNISActuarial School 2016, University of Salerno, Italy; AMASES XL, Catania, Italy; Waterloo International Workshop on the Implications of Aging on Asset Values, University of Waterloo, Canada; Astin Colloquium Lisboa 2016, Lisbon, Portugal; IbIt 2016-XVI Iberian-Italian Conference on Financial and Actuarial Mathematics, Paestum, Italy.

Published papers

Apicella, G., M. Dacorogna, E. Di Lorenzo, and M. Sibillo (2019): "Improving the Forecast of Longevity by Combining Models", **North American Actuarial Journal**, 23(2), 298-319, `https://doi.org/10.1080/10920277.2018.1556701`.

Apicella, G., and M. Sibillo (2018): "Corrective factors for longevity projections in a dynamic context", **European Actuarial Journal**, 8(1), 53-68, `https://doi.org/10.1007/s13385-018-0166-6`.

Apicella, G., M. Dacorogna, E. Di Lorenzo, and M. Sibillo (2018). Improving Lee-Carter forecasting: methodology and some results. **Mathematical and Statistical Methods for Actuarial Sciences and Finance (MAF 2018)**, pp. 57-61. Editors: Corazza, M., Durbán, M., Grané, A., Perna, C., Sibillo, M. (Eds.), Springer, Cham. ISBN: 978-3-319-89823-0 `https://link.springer.com/chapter/10.1007/978-3-319-89824-7_10`.

Peer-reviewed conference papers

Apicella, G. and M. Dacorogna, (2016): "A Comprehensive Study of Mortality Dynamics in Ten Developed Countries Using the Feller Process. *Proceedings of the XVI Iberian Italian Conference on Financial and Actuarial Mathematics*. Pages 7-11. ISBN: 9788861970601, `http://www.unisa.it/uploads/13833/ibit_proceedings.pdf`

Working papers

"A behavioural gap in survival beliefs", with E. De Giorgi. Available at SSRN: `https://ssrn.com/abstract=3821595orhttp://dx.doi.org/10.2139/ssrn.3821595`.

"Using Interest Rate Models to Improve Mortality Forecast", with M. Dacorogna, E. Di Lorenzo and M. Sibillo. Available at SSRN: `https://ssrn.com/abstract=3070891`

"A General Framework for Modelling Mortality to Better Estimate Its Relationship with Interest Rate Risks", with M. Dacorogna. SCOR Paper no39. Available at SSRN: `https://ssrn.com/abstract=2888794`.

Work in progress

"Gender Attitudes toward Longevity and Retirement Planning: Theory and Evidence", with E. De Giorgi.

"Longevity and Financial Risk-Taking", with E. De Giorgi.

"Historical information and future longevity", with M. Dacorogna.

Research magazine contributions

Apicella, G. and E. G. De Giorgi **(2021)**: "A new perspective on longevity risk perception". *EU Research SPR21/P78*. ISSN (Print): 2752-4728. ISSN (Online): 2752-4736.

Other professional memberships and activities

Advising: Bsc Thesis, Major in Economics (VWL), School of Economics and Political Science (SEPS), University of St. Gallen, 2021.

Member: AMASES (Italian Association for Mathematics Applied to Economics and Social Sciences); ARIA (American Risk and Insurance Association).

Referee for Academic Journals: Decisions in Economics and Finance, Springer Nature Switzerland AG, Electronic ISSN: 1129-6569.

Organized conferences: UNISActuarial School 2016,
IbIt 2016-XVI Iberian-Italian Conference on Financial and Actuarial Mathematics.

Attended schools and workshops: *Actuarial School* (Feb.-Jun. 2018, Inter Academy Center for Actuarial Science and Risk Management (CISA), Italy),
Models for non-life insurance (Jan.-Feb. 2018, Inter Academy Center for Actuarial Science and Risk Management (CISA), Italy),
Economic Scenario Generators (Jun. 2017, Zurich, Prime Re Academy),
Amplify Trading, Trading & Financial Market Analysis (Apr. 2017, Cass Business School, City, University of London),
29th International Summer School 2016 of the Swiss Association of Actuaries (SAA) on the subject Quantitative Risk Management: Concepts, Techniques and Tools (Aug. 2016, University of Lausanne).

Skills and languages

Languages: Italian (mother tongue), English (fluent), German (basic).

Programming: R, MATLAB.

Tools: LaTeX; Microsoft Office.

References

- Enrico Giovanni De Giorgi
  Professor of Mathematics
  School of Economics and Political Science, University of St. Gallen
  Bodanstrasse 6, 9000 St. Gallen, Switzerland.
  Email: enrico.degiorgi@unisg.ch.

- Marilena Sibillo
  Professor
  Department of Economics and Statistics (DISES), University of Salerno
  Via Giovanni Paolo II, 132, 84084 Fisciano, Italy.
  Email: msibillo@unisa.it

- Emilia Di Lorenzo
  Professor of Mathematical Methods of Economics, Finance and Actuarial Sciences
  Department of Economics and Statistics (DISES), University of Naples Federico II
  Via Cintia-Complesso Monte S. Angelo, 26, 80126, Naples, Italy.
  Email: emilia.dilorenzo@unina.it