Curriculum Vitae

Marius D. PASCARIU, Phd, R&D Biometric Risk Expert / Actuary

Date of birth: 16/04/1986

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PROFESSIONAL PROFILE

I am a recognise expert in biometric risk modelling and actuary with a proven track record in health sciences and mathematical modelling both in the private sector and academia. My experience accompanied by the best practices in developing tools for maintaining, deploying and ensuring the reproducibility of novel methodologies. All these have been demonstrated in conferences, publications and open-source software in the public domain already used by more than 100 thousand people. I am dedicated to promote change and innovation.

EDUCATION

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Southern Denmark, Denmark	Postdoctoral	2018	Demography
University of Southern Denmark, Denmark	Ph.D.	2014-2018	Demography and Health Sciencies
European Doctoral School of Demography, Germany and Poland	Cert.	2013-2014	Demography
Institute and Faculty of Actuaries, UK	-	2011 - 2018	Actuarial Science
Bucharest University of Economic Studies, Romania	M.Sc.	2008-2010	Cybernetics and Quantitative Economics
Babes-Bolyai University, Romania	B.S.	2005-2008	Business Administration

EMPLOYMENT

2022 - Present	Honorary Senior Lecturer, Australian National University	Australia
2019 – Present	Biometric Risk Expert, R&D Actuary, SCOR Global Life	France
2017 – 2018	Visiting Researcher, Australian National University	Australia
2014 – 2018	Doctoral Fellow, University of Southern Denmark	Denmark
2013 - 2014	Research Fellow, Max-Planck Institute for Demographic Reseach	Germany
2013	Life Actuary, Allianz	Romania
2012	Life Actuary, Generali	Romania
2009-2011	Life & Pension Actuary, Allianz	Romania
2008	Intern, National Bank of Romania	Romania

DATA SCIENCE SKILLS

I am an active data scientist with the ambition of staying up to date with the latest technologies in terms of programming, data visialization, unit testing, continous integration, APIs, containarization and knowledge disemination. I am fluent programming in R / Rshiny / tidyverse and i can also work with Python and STATA or data management solutions like PostgresSQL.

GitHub: https://github.com/mpascariu

ACADEMIC AWARDS, GRANTS AND HONORS

2015-2018   Grant: *Modelling and forecasting age-specific death-rates at older ages. The SCOR Corporate Foundation for Science.* Role: CI (100%, EUR 269,522).

PUBLICATION AND DISSEMINATION ACTIVITY

Riffe, T., Acosta, E., Aburto, J.M., Pascariu,et al , 2020. COVerAGE-DB: a global demographic database of COVID-19 cases and deaths. *International Journal of Epidemiology*, Volume 50, Issue 2, April 2021, Pages 390–390f, https://doi.org/10.1093/ije/dyab027

MD Pascariu, C Torres-Cantor. 2020. Force of Mortality Encyclopedia of Gerontology and Population Aging. Springer International Publishing. DOI: https://doi.org/10.1007/978-3-319-69892-2_551-1

MD Pascariu, U Basellini, JM Aburto, V Canudas-Romo. 2020. The Linear Link: Deriving Age-Specific Death Rates from Life Expectancy. Risks, 8(4), 109. DOI: 10.3390/risks8040109

MP Bergeron-Boucher, MD Pascariu, et al, 2020. Alternative Forecasts of Danish Life Expectancy . In: Mazzuco S., Keilman N. (eds). Developments in Demographic Forecasting. The Springer Series on Demographic Methods and Population Analysis, vol 49. Springer, Cham. DOI: 10.1007/978-3-030-42472-5_7

MD Pascariu, A Lenart, V Canudas-Romo. 2019. The maximum entropy mortality model: forecasting mortality using statistical moments. Scandinavian Actuarial Journal 2019 (8), 661-685. DOI: 10.1080/03461238.2019.1596974

MD Pascariu, V Canudas-Romo, JW Vaupel. 2018. The double-gap life expectancy forecasting model. Insurance: Mathematics and Economics 78, 339-350. DOI: 10.1016/j.insmatheco.2017.09.011

MD Pascariu. 2018. MortalityLaws: Parametric Mortality Models, Life Tables and HMD. The Comprehensive R Archive Network (R library with +50k downloads).

MP Bergeron-Boucher, V Canudas-Romo, MD Pascariu, R Lindahl-Jacobsen. 2018. Modeling and forecasting sex differences in mortality: a sex-ratio approach. Genus Journal of Population Sciences 74 (1), 20. DOI: 10.1186/s41118-018-0044-8

MD Pascariu, MJ Dańko, J Schöley, S Rizzi. 2018. ungroup: An R package for efficient estimation of smooth distributions from coarsely binned data. The Journal of Open Source Software 3 (29), 937. DOI: 10.21105/joss.00937

OTHER NOTABLE CONTRIBUTIONS

United Nations, Department of Economic and Social Affairs, Population Division (2022). World Population Prospects 2022