

Marília Nepomuceno

RESEARCH SCIENTIST & DEPUTY HEAD FOR TRAINING · MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

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Work Experience

Deputy Head for Training

DIGITAL AND COMPUTATIONAL DEMOGRAPHY DEPARTMENT, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

Rostock, Germany

2025 – Present

SOCIAL DEMOGRAPHY DEPARTMENT, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

2023 – 2024

Research Scientist

POPULATION DYNAMICS AND SUSTAINABLE WELL-BEING, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

2025 – Present

LABORATORY OF DEMOGRAPHIC DATA, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

2025 – Present

LIFESPAN INEQUALITY RESEARCH GROUP & POPULATION HEALTH LAB., MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

2022 – 2024

LABORATORY OF DEMOGRAPHIC DATA, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

2021 – 2021

LIFESPAN INEQUALITY RESEARCH GROUP, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

2017 – 2020

Parental Leave

12 MONTHS

Rostock, Germany

2022 – 2022

Deputy Research Coordinator of the Short-Term Mortality Fluctuations Data Series

LABORATORY OF DEMOGRAPHIC DATA, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

Rostock, Germany

2021 – 2021

United Nations Consultant

DEPARTMENT OF ECONOMIC AND SOCIAL AFFAIRS, POPULATION DIVISION

Remote work

2020 – 2020

Assistant Professor

DEPARTMENT OF STATISTICS, FEDERAL UNIVERSITY OF MINAS GERAIS

Belo Horizonte, Brazil

2013 – 2014

Grants Awarded

ERC Starting Grant

PRINCIPAL INVESTIGATOR

1.5 million euro

2026 – 2030

- LONGEVIOUS - Human Longevity: Why older individuals in poorer nations outlive those in wealthier nations

DAAD Grant

PRINCIPAL INVESTIGATOR

24,235 euro

2023 – 2024

- Germany-Brazil Joint Research Co-operation Scheme Project: “Assessing the impact of the COVID-19 pandemic on Brazilian population dynamics.” Funded by the German Academic Exchange Service (DAAD) and the Brazilian Coordination for the Improvement of Higher Education Personnel (CAPES).
Funding: 24,235 Euro (DAAD) + 137,112 Euro (CAPES), including a postdoc researcher

DAAD Grant

INVESTIGATOR

15,812 euro

2019 – 2020

- Australia-Germany Joint Research Co-operation Scheme Project: “Truncated Cross-sectional Inequality in Lifespan (TCIL).” Funded by the German Academic Exchange Service (DAAD) and the Universities Australia.
Funding: 15,812 (DAAD) + 24,000 AUD (Universities Australia)

Education

Ph.D in Demography

FEDERAL UNIVERSITY OF MINAS GERAIS, DEPARTMENT OF DEMOGRAPHY (CEDEPLAR)

Belo Horizonte, Brazil

2013 – 2017

- Thesis Title: Overcoming Limitations of Demographic Data
- Supervisor: Cássio M. Turra

European Doctoral School of Demography

ORGANIZED BY EUROPEAN ASSOCIATION FOR POPULATION STUDIES (EAPS)

Rostock/Warsaw, Germany/Poland

2014 – 2015

M.A. in Demography

FEDERAL UNIVERSITY OF MINAS GERAIS, DEPARTMENT OF DEMOGRAPHY (CEDEPLAR)

Belo Horizonte, Brazil

2010 – 2012

B.A. in Actuarial Sciences

FEDERAL UNIVERSITY OF MINAS GERAIS, DEPARTMENT OF STATISTICS

Belo Horizonte, Brazil

2005 – 2009

Publications

Authors listed as authorship order

JOURNAL ARTICLES

19. di Lego, V.; **Nepomuceno, M.**; Turra, C. 2025. "Gender Gaps in Healthy Life Expectancy as Indicators of Inequality for Disability and Chronic Disease: Evidence from 24 Countries, years 2014–2019", **BMJ Open**, 15:e096968, pp. 1-10 [Web Link](#)
18. Marinetti, I.; Jdanov, D.; Jasilionis, D.; **Nepomuceno, M.**; Shkolnikov, V.; Janssen, F. 2025. "Seasonal mortality and its impact on spatial inequality in life expectancy across Italy", **European Journal of Population**, 41(30), pp. 1-22 [Web Link](#)
17. Marinetti, I.; Jdanov, D.; Jasilionis, D.; **Nepomuceno, M.**; Islam, M.; Janssen, F. 2024. "Seasonality in mortality and its impact on life expectancy levels and trends across Europe", **Journal of Epidemiology and Community Health**, 79(6), pp. 466-473 [Web Link](#)
16. van Raalte, A. A.; Basellini, B.; Camarda, C.G.; **Nepomuceno, M.R.**; Myrskylä, M., 2024. "Response to Carl Schmetzmann Commentary—Drawing Cohort Profiles From Period Data: Improvements and Risks", **Demography**, 60 (6), pp. 1–5 [Web Link](#)
15. van Raalte, A. A.; Basellini, B.; Camarda, C.G.; **Nepomuceno, M.R.**; Myrskylä, M., 2023. "The Dangers of Drawing Cohort Profiles From Period Data: A Research Note", **Demography**, 60 (6), pp. 1689–1698 [Web Link](#)
14. Calazans, J.A.; Guimarães, R.; **Nepomuceno, M.R.**, 2023. "Regional inequalities in mortality in Brazil: age and causes of death contributions to changes in life expectancy and lifespan variation between 2008 and 2018", **Revista Brasileira de Estudos de População**, 40 (2023), pp. 1–23 [Web Link](#)
13. Turra, C.M.; Fernandes, F.; Calazans, J.; **Nepomuceno, M.R.**, 2023. "Age reporting in the Brazilian COVID-19 vaccination database: What can we learn from it?", **Demographic Research**, 48(28), pp. 829-848, [Web Link](#)
12. **Nepomuceno, M.R.**; Klimkin, I.; Jdanov, D. A.; Alustiza-Galarza, A.; Shkolnikov, V., 2022. "Sensitivity analysis of excess mortality due to the COVID-19 pandemic", **Population and Development Review**, 48(2), pp. 279-302, [Web Link](#)
Journal Top Cited Article between January 2021 and December 2023
11. Shkolnikov, V.; Klimkin, I.; McKee, M.; Jdanov, D. A.; Alustiza-Galarza, A.; Németh, L.; Timonin, S. A.; **Nepomuceno, M.R.**; Andreev, E.M.; Leon, D.A., 2022. "What should be the baseline when calculating excess mortality? New approaches suggest that we have underestimated the impact of the COVID-19 pandemic and previous winter peaks", **Social Science and Medicine- Population Health**, 18 (101118), pp.1-13, [Web Link](#)
10. **Nepomuceno, M.R.**; Cui, Qi; van Raalte, A. A.; Aburto, J.M.; Canudas-Romo, V., 2022. "The Cross-sectional average inequality in lifespan (CAL[†]): A lifespan variation measure that reflects the mortality histories of cohorts", **Demography**, 59 (1), pp. 187–206, [Web Link](#)
9. Vieira, C.C.; Alburez-Gutierrez, D.; **Nepomuceno, M.R.**; Thiele, T., 2022. "Desaparecidos: characterizing the population of missing children using Twitter", **Proceedings of WebSci'22: 14th ACM Web Science Conference 2022**, pp.185–190, [Web Link](#)
8. **Nepomuceno, M.R.**; di Lego, V.; Turra, C.M., 2021. "Gender Disparities in Health at Older Ages and their Consequences for Well-Being in Latin America and the Caribbean.", **The Vienna Yearbook of Population Research**, 19, pp. 191-214, [Web Link](#)
7. Riffe, T.; Acosta, E.; **Nepomuceno, M.R.**; the COVerAge-DB team., 2021. "COVerAge-DB: a global demographic database of COVID-19 cases and deaths.", **International Journal of Epidemiology**, pp. 390–390f, [Web Link](#)
6. **Nepomuceno, M.R.**; Acosta, E.; Alburez-Gutierrez, D.; Aburto, J.M.; Gagnon, A.; and Turra, C.M., 2020. "Besides population age-structure, health and other demographic factors can contribute to understanding the COVID-19 burden", **Proceedings of the National Academy of Sciences of the United States of America**, 117(25), pp. 13881–13883, [Web Link](#)
5. **Nepomuceno, M.R.**; Turra, C.M., 2020. "The population of centenarians in Brazil: historical estimates from 1900 to 2000", **Population and Development Review**, 46(4), pp. 813-833, [Web Link](#)
Journal Top Cited Article between January 2020 and December 2021
4. **Nepomuceno, M.R.**; Turra, C.M., 2020. "Assessing the quality of education reporting in Brazilian censuses." **Demographic Research**, 42(15), pp.441–460, [Web Link](#)
3. Borges, G.M.; **Nepomuceno, M.R.**, 2020. "The contribution of demography to mortality studies in pandemic times", **Revista Brasileira de Estudos de População**, 37(e0124), pp. 1-9, [Web Link](#)
2. **Nepomuceno, M.R.**; Canudas-Romo, V. A., 2019. "Cohort Survival Comparison between Central- Eastern European and High-Longevity countries: The TCAL Approach", **Population (English version)**, 74(3), pp.281–302, [Web Link](#)

1. **Nepomuceno, M.R.**;Turra, C.M.,2015. “Trends in healthy life expectancy among older Brazilian women, between 1998 and 2008”, **Revista de Saúde Pública**, 49(1), pp.1-8, [Web Link](#)

BOOK CHAPTERS (PEER REVIEWED)

2. van Raalte A.A.; **Nepomuceno, M.R.**, 2020. “Decomposing gaps in healthy life expectancy”, in *International Handbook on Healthy Life Expectancy*, Eds.: Jagger, C., Crimmins, E.M., Saito, Y., De Carvalho Yokota, R.T., Van Oyen, H., Robine, JM., Springer, Cham, pp. 107-122, [Web Link](#)

1. Riffe, T.; **Nepomuceno, M.R.**; Basellini, U.,2020. “Mortality Modeling”, in *Encyclopedia of Gerontology and Population Aging*, Section Ed.: P. Gerland, Springer, Cham, pp. 1-11, [Web Link](#)

WORKING PAPERS, PREPRINTS, TECHNICAL REPORTS AND OTHERS

3. Marinetti, I.; Jdanov, D.; Jasilionis, D.; **Nepomuceno, M.**; Islam, M.; Janssen, F., 2025. “Seasonal mortality and its impact on spatial inequality in life expectancy across Italy”, *MPIDR - Working Paper*, [Web Link](#)

2. **Nepomuceno, M.R.**, 2020. “Vulnerable groups at increased risk of COVID-19 in sub-Saharan Africa: The case of the HIV population”, *OSF preprint*, [Web Link](#)

1. Acosta, E.; Gagnon, A.; Ouellette, N.; Bourbeau, R. R.; **Nepomuceno, M.R.**; van Raalte, A. A., 2020. The boomer penalty: excess mortality among baby boomers in Canada and the United States , *MPIDR Working Paper*, [Web Link](#)

SCIENTIFIC OUTREACH

3. Guimarães, R.; **Nepomuceno, M.R.**, 2020. “The relevance of testing population to tackle the COVID-19 pandemic” [A importância de testar a população para enfrentar a Covid-19], *O Nexo, Brazil*, [Web Link](#)

2. Alburez-Gutierrez, D.; Aburto, J.M.; **Nepomuceno, M.R.**, 2020. “Coronavirus: a warning to Latin America and the Caribbean to dramatically increase COVID-19 testing“, *The Conversation, The UK*, [Web Link](#)

1. Alburez-Gutierrez, D.; Aburto, J.M.; **Nepomuceno, M.R.**, 2020. “Coronavirus: América Latina y el Caribe deben aumentar de forma drástica las pruebas de COVID-19“, *The Conversation, Spain*, [Web Link](#)

Visiting Grants Awarded

2019 **Research stay at Institut national d'études démographiques (INED)**, Funding: 3,600 Euro; 2 months

[Paris, France](#)

2018 **Research stay at Institut national d'études démographiques (INED)**, Funding: 1,800 Euro; 1 month

[Paris, France](#)

2015 **Research stay at Centre d'Etudis Demogràfics (CED)**, Funding: 1,740 Euro; 15 days

[Barcelona, Spain](#)

Scholarships and Fellowships

2013-2014 **Fellowship to attend the European Doctoral School of Demography**, 11,500 Euro

2013-2017 **Scholarship to attend the PhD Program in Demography**, 26,000 Euro

2010-2012 **Scholarship to attend the M.A. Program in Demography**, 9,500 Euro

Awards

2025 **PAA Poster Prize**, Winner of the poster prize at the Annual Meeting of the Population Association of America (with Violo and Ouellette)

2019 **REVES Poster Prize**, Winner of poster prize at the Annual Meeting of the International network on health expectancies and the disablement process (with Acosta, Gagnon, Ouellette, Bourbeau, van Raalte)

2018 **PAA Poster Prize**, Winner of the poster prize at the Annual Meeting of the Population Association of America (with Turra)

Invited Lectures/Talks

2025	Institut National d'Etudes Démographiques (INED) , Invited Speaker - Lundi de l'ined	Paris, France
2025	Centre for Research on Pandemics & Society (PANSOC) , Invited Speaker	Virtual
2024	Institut National d'Etudes Démographiques (INED) , Invited Speaker	Paris, France
2023	New York University Abu Dhabi , Invited Speaker	Abu Dhabi, UAE
2023	Annual Meeting of the Population Association of America (PAA) , Discussant	New Orleans, USA
2022	XXII Meeting of the Brazilian Population Association (ABEP) , Presenter in a Round Table Session	Virtual
2021	Annual Meeting of the Population Association of America (PAA) , Discussant	Virtual
2021	Fiocruz, School of Public Health, Rio de Janeiro, Brazil , Guest Lecturer	Virtual
2020	National School of Statistics (ENCE/IBGE), Rio de Janeiro, Brazil , Invited Speaker	Virtual
2020	Florida State University, Tallahassee, USA , Invited Speaker	Virtual
2020	1st German-Brazilian Nursing Symposium (Canceled due to COVID-19) , Invited Speaker	Osnabrück
2020	5th Hamburg Symposium on Regional Health Care (Canceled due to COVID-19) , Invited Speaker	Hamburg
2019	5th Human Mortality Database Symposium , Invited Speaker	Berlin

Media Interviews

2025	New Scientist , Why the world's longevity hotspots may not be all they seem. Web Link
2020	Nature Medicine , Low- and middle-income countries face up to COVID-19. Web Link
2020	BBC Brasil , Science will take 'years' to understand Covid-19 risk dynamics. Web Link
2020	Epoca Negócios , Age is only one factor that increases the risk of dying from Covid-19. Web Link

SUPERVISION OF STUDENTS

CO-SUPERVISOR

2024-Now	Pietro Violo , University of Montreal, Canada	PhD Student
2024-Now	Ulisses Pinto , Brazilian National School of Statistics, ENCE/IBGE, Brazil	PhD Student
2024-Now	Tatiana Arteaga , Federal University of Minas Gerais, Department of Demography, Brazil	PhD Student
2023-Now	Isabella Marinetti , Max Planck Institute for Demographic Research, Germany	PhD Student

SUCCESSFULLY COMPLETED

2024-2025	Yunxiang Wan , European Doctoral School of Demography, Germany/France	Master Student
2023-2025	Taís Azevedo de Lima , Brazilian National School of Statistical Sciences (ENCE/IBGE), Brazil	Master Student
2022-2024	Tamara Vaz de Moraes Santos , Federal University of Minas Gerais, Department of Demography, Brazil	Master Student
2019-2023	Larissa Gonçalves Souza , Federal University of Minas Gerais, Department of Demography, Brazil	PhD Student

Mentoring Postdocs

2023-2024	Dr. Raphael Villela Almeida , Brazilian National School of Statistics (ENCE/IBGE). Dr. Almeida's postdoc was fully funded by the DAAD/CAPES grant for which I was the Principal Investigator.
2023-Now	Dr. Mauricio Molina , University of Costa Rica

Teaching

2024-Now	Population Projections , European Doctoral School of Demography, INED, Paris	1 Week
2021	Demographic Methods for Population Research , Fiocruz, School of Public Health, Rio de Janeiro, Brazil	1 Week
2018	Life Table and Decomposition Analysis for Population Health Research (using R) , Max Planck Institute for Demographic Research	2 Weeks
2016-2019	Introduction to Biostatistics , Medical Sciences Faculty of Minas Gerais, Brazil	4x 12 hours
2016-2018	Actuarial Risk Management , Medical Sciences Faculty of Minas Gerais, Brazil	3x 12 hours
2016-2017	Introduction to Biostatistics , Centro Universitário Una, Brazil	4x 12 hours
2013-2014	Introduction to Biostatistics , Federal University of Minas Gerais, Department of Statistics, Brazil	2x 60 hours
2014	Introduction to Actuarial Science , Federal University of Minas Gerais, Department of Statistics, Brazil	60 hours
2014	Legislation of Pension Funding , Federal University of Minas Gerais, Department of Statistics, Brazil	60 hours
2013	Fundamental of Actuarial Practice , Federal University of Minas Gerais, Department of Statistics, Brazil	60 hours
2011-2012	Introduction to Demographic Methods , Federal University of Minas Gerais, Department of Demography	2x 30 hours
2012	Population Analysis , Federal University of Minas Gerais, Department of Demography, Brazil	30 hours

Presentations at International Conferences or Workshops

I have presented my work at the following large peer-reviewed conferences: Population Association of America Annual Meeting (annually); European Population Conference (biennially); Congress of the Latin American Population Association (biennially); Congress of the Brazilian Population Association (biennially); and International Population Conference (every 4 years). Additionally, I have presented my work at smaller national or network conferences: The REVES Network Meeting on Health Expectancies; The Human Mortality Database Symposium, the MultiCause Workshop; the Supercentenarian Workshop; as well as some smaller thematic workshops.

Professional Activities

EDITORIAL BOARDS

Associate Editor, European Journal of Population, Open Access [OA]

2023 – Present

Editorial Board, Brazilian Journal of Population Studies (Revista Brasileira de Estudos Populacionais), OA

2025 – Present

Associate Editor, Reports in Public Health (Cadernos de Saude Publica), OA

2023 – 2025

REVIEWING ACTIVITIES

Journal peer-review, Proceedings of the National Academy of Science of the United States of America; BMJ Open [OA]; Population and Development Review; Demography [OA]; Demographic Research [OA]; Population Studies; International Journal of Epidemiology; GENUS [OA]; International Journal of Public Health [OA]; Population-*E* [OA]; REBEP - Revista Brasileira de Estudos de População [OA]; Population and Health Metrics [OA]; PlosOne [OA]; Cadernos de Saúde Pública (Reports in Public Health)[OA]

CONFERENCE ACTIVITIES

Convener - Theme Mortality & Longevity, European Population Conference (EPC), 2026

Session Organizer - Mortality and Health in LMICs, Annual Meeting of the Population Association of America (PAA), 2025

Session Chair/Discussant, Annual Meeting of Population Association of America (PAA), European Population Conference (EPC)

Session Reviewer, Congress of the Latin American Population Association (Alap). International Population Conference organized by the International Union for the Scientific Study of Population (IUSSP)

COMMITTEE JURY MEMBER

2025 **PhD qualification of Ali Arrieta-Arrieta**, Federal University of Minas Gerais, Department of Demography

2025 **Master's degree defence of Laura Andrade**, Federal University of Minas Gerais, Department of Demography

2023 **PhD defence of Octavio Bramajo**, Universitat Autònoma de Barcelona, Centre d'Etudis Demogràfics

2018 **PhD defence of Moisés H. Sandoval González**, Federal University of Minas Gerais, Department of Demography

2018 **Master's degree defence of Rafaella de Oliveira Carnevali**, Federal University of Minas Gerais, Department of Demography

SELECTION COMMITTEE

2024-Now **EDSD students**, European Doctoral School of Demography, Max Planck Institute for Demographic Research

2023 **2 PhD students**, DAAD/CAPES Grant which I am the PI, Max Planck Institute for Demographic Research

2023 **Postdoctoral Researcher**, DAAD/CAPES Grant which I am the PI, Max Planck Institute for Demographic Research

2018 **PhD student**, Lifespan Inequality Research Group, Max Planck Institute for Demographic Research