

# Marília Nepomuceno

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

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## Work Experience

### Research Scientist

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

Rostock, Germany

2025 – Present

LABORATORY OF DEMOGRAPHIC DATA, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

2025 – 2025

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

### Deputy Head for Training

Rostock, Germany

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

2025 – 2025

SOCIAL DEMOGRAPHY DEPARTMENT, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

2023 – 2024

### Parental Leave

Rostock, Germany

12 MONTHS

2021 – 2022

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

Rostock, Germany

LABORATORY OF DEMOGRAPHIC DATA, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

2021 – 2021

### United Nations Consultant

Remote work

DEPARTMENT OF ECONOMIC AND SOCIAL AFFAIRS, POPULATION DIVISION

2020 – 2020

### Assistant Professor

Belo Horizonte, Brazil

DEPARTMENT OF STATISTICS, FEDERAL UNIVERSITY OF MINAS GERAIS

2013 – 2014

## Grants Awarded

### ERC Starting Grant

1.5 million euro

PRINCIPAL INVESTIGATOR

2026 – 2030

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

### DAAD Grant

24,235 euro

PRINCIPAL INVESTIGATOR

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

15,812 euro

INVESTIGATOR

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

Belo Horizonte, Brazil

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

2013 – 2017

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

### European Doctoral School of Demography

Rostock/Warsaw, Germany/Poland

ORGANIZED BY EUROPEAN ASSOCIATION FOR POPULATION STUDIES (EAPS)

2014 – 2015

### M.A. in Demography

Belo Horizonte, Brazil

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

2010 – 2012

### B.A. in Actuarial Sciences

Belo Horizonte, Brazil

FEDERAL UNIVERSITY OF MINAS GERAIS, DEPARTMENT OF STATISTICS

2005 – 2009

## Publications

Authors listed as authorship order

### JOURNAL ARTICLES

20. Monteiro da Silva, J.; Paglino, E.; Borges, G.; **Nepomuceno, M.R.** (2026). "The Emergence of an Urban Mortality Advantage in Brazil: An Assessment of Age and Causes-of-Death Contributions to the Urban-Rural Mortality Gap", **Journal of Urban Health**, forthcoming
19. di Lego, V.; **Nepomuceno, M. R.**; 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.R.**; 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<sup>†</sup>): 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

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| 2019 | <b>Research stay at Institut national d'études démographiques (INED)</b> , Funding: 3,600 Euro; 2 months | <i>Paris, France</i>    |
| 2018 | <b>Research stay at Institut national d'études démographiques (INED)</b> , Funding: 1,800 Euro; 1 month  | <i>Paris, France</i>    |
| 2015 | <b>Research stay at Centre d'Etudis Demogràfics (CED)</b> , Funding: 1,740 Euro; 15 days                 | <i>Barcelona, Spain</i> |

## Scholarships and Fellowships

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- 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

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| 2025 | <b>PAA Poster Prize</b> , Winner of the poster prize at the Annual Meeting of the Population Association of America (with Violo and Ouellette)  |
| 2019 | <b>REVES Poster Prize</b> , 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 | <b>PAA Poster Prize</b> , Winner of the poster prize at the Annual Meeting of the Population Association of America (with Turra)  |

## Invited Lectures/Talks

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2026	<b>London School of Hygiene and Tropical Medicine</b> , Invited Speaker	<i>London, England</i>
2025	<b>Max Planck Institute for Demographic Research</b> , Invited Speaker - 7th IMPRS-PHDS Annual Academy	<i>Rostock, Germany</i>
2025	<b>Institut National d'Etudes Démographiques (INED)</b> , Invited Speaker - Lundi de l'ined	<i>Paris, France</i>
2025	<b>Centre for Research on Pandemics &amp; Society (PANSOC)</b> , Invited Speaker	<i>Virtual</i>
2024	<b>Institut National d'Etudes Démographiques (INED)</b> , Invited Speaker	<i>Paris, France</i>
2023	<b>New York University Abu Dhabi</b> , Invited Speaker	<i>Abu Dhabi, UAE</i>
2023	<b>Annual Meeting of the Population Association of America (PAA)</b> , Discussant	<i>New Orleans, USA</i>
2022	<b>XXII Meeting of the Brazilian Population Association (ABEP)</b> , Presenter in a Round Table Session	<i>Virtual</i>
2021	<b>Annual Meeting of the Population Association of America (PAA)</b> , Discussant	<i>Virtual</i>
2021	<b>Fiocruz, School of Public Health, Rio de Janeiro, Brazil</b> , Guest Lecturer	<i>Virtual</i>
2020	<b>National School of Statistics (ENCE/IBGE), Rio de Janeiro, Brazil</b> , Invited Speaker	<i>Virtual</i>
2020	<b>Florida State University, Tallahassee, USA</b> , Invited Speaker	<i>Virtual</i>
2020	<b>1st German-Brazilian Nursing Symposium (Canceled due to COVID-19)</b> , Invited Speaker	<i>Osnabrück</i>
2020	<b>5th Hamburg Symposium on Regional Health Care (Canceled due to COVID-19)</b> , Invited Speaker	<i>Hamburg</i>
2019	<b>5th Human Mortality Database Symposium</b> , Invited Speaker	<i>Berlin</i>

## Media Interviews

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

## SUPERVISION OF STUDENTS

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### CO-SUPERVISOR

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

### SUCCESSFULLY COMPLETED

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

## Mentoring Postdocs

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2023-2024	<b>Dr. Raphael Villela Almeida</b> , 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	<b>Dr. Mauricio Molina</b> , University of Costa Rica

## Teaching

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

## Presentations at International Conferences or Workshops

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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

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### 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