

# Marília Nepomuceno

RESEARCH SCIENTIST & PHD TRAINING CHAIR · MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

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## Work Experience

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### PhD Training Chair

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

[Rostock, Germany](#)

2025 – Present

### Research Scientist

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

[Rostock, Germany](#)

2025 – Present

### PhD Training Chair

SOCIAL DEMOGRAPHY DEPARTMENT, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

[Rostock, Germany](#)

2023 – 2024

### Research Scientist

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

[Rostock, Germany](#)

2022 – 2024

### Parental Leave

12 MONTHS

[Rostock, Germany](#)

2022–2022

### Research Scientist and Country-specialist at the Human Mortality Database

LABORATORY OF DEMOGRAPHIC DATA, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

[Rostock, Germany](#)

2021–2021

### 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

### Postdoc

LIFESPAN INEQUALITY RESEARCH GROUP, MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

[Rostock, Germany](#)

2017–2020

### Assistant Professor

DEPARTMENT OF STATISTICS, FEDERAL UNIVERSITY OF MINAS GERAIS

[Belo Horizonte, Brazil](#)

2013–2014

## Education

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### 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

## Grants Awarded

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### 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)

### 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 the Universities Australia. Funding: 15,812 (DAAD) + 24,000 AUD (Universities Australia)

## Visiting Grants Awarded

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- 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

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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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- 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

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- 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

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- 2025 **New Scientist**, Why the world's longevity hotspots may not be all they seem. [Web Link](#)
- 2020 **BBC Brasil**, Science will take 'years' to understand Covid-19 risk dynamics. [Web Link](#)
- 2020 **Nature Medicine**, Low- and middle-income countries face up to COVID-19. [Web Link](#)

## SUPERVISION OF STUDENTS

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### CO-SUPERVISOR

- 2024–Now **Yunxiang Wan**, European Doctoral School of Demography, Germany/France *Master Student*
- 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 **Taís Azevedo de Lima**, Brazilian National School of Statistical Sciences (ENCE/IBGE), Brazil *Master Student*
- 2023–Now **Isabella Marinetti**, Max Planck Institute for Demographic Research, Germany *PhD 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

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

## Teaching

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

## 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

<b>Associate Editor</b> , European Journal of Population, Open Access [OA]	2023–Present
<b>Associate Editor</b> , Reports in Public Health (Cadernos de Saude Publica), OA	2023–Present

### 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

**Session Organizer**, Annual Meeting of the Population Association of America (PAA)  
**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

2023	<b>PhD defence of Octavio Bramajo</b> , Universitat Autònoma de Barcelona, Centre d'Estudis Demogràfics
2018	<b>PhD defence of Moisés H. Sandoval González</b> , Federal University of Minas Gerais, Department of Demography
2018	<b>Master's degree defence of Rafaella de Oliveira Carnevali</b> , Federal University of Minas Gerais, Department of Demography

### SELECTION COMMITTEE

2024-now	<b>EDSD students</b> , European Doctoral School of Demography, Max Planck Institute for Demographic Research
2023	<b>2 PhD students</b> , DAAD/CAPES Grant which I am the PI, Max Planck Institute for Demographic Research
2023	<b>Postdoctoral Researcher</b> , DAAD/CAPES Grant which I am the PI, Max Planck Institute for Demographic Research
2018	<b>PhD student</b> , Lifespan Inequality Research Group, Max Planck Institute for Demographic Research

# Publications

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Authors listed as authorship order

## JOURNAL ARTICLES

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**, In Press
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, J.M., 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

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](#)