

July 2022

*Curriculum Vitae*  
**Emerson Augusto Baptista**

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**ACADEMIC POSITIONS**

- 2021- Researcher and Professor at the Center for Demographic, Urban and Environmental Studies. El Colegio de Mexico, Mexico.
- 2017-2021. Researcher and Professor at the Asian Demographic Research Institute (ADRI). School of Sociology and Political Science, Shanghai University, China.
- 2015-2017. Post-Doc at Brown University, United States. The Population Studies and Training Center (PSTC).
- Research: “Biome Restoration of Brazil’s Mata Atlântica: can we promote equitable socioeconomic development while saving the world’s most threatened tropical forest?” (Leah VanWey, PI).

**EDUCATION**

2015. Ph.D. in Demography. Universidade Federal de Minas Gerais (CEDEPLAR/UFMG), Brazil. Dissertation: “Mortality from cardiovascular diseases in adults: a spatio-temporal and demographic study for Brazilian micro-regions between 1996 and 2010” (Bernardo Lanza Queiroz, advisor).
2009. M.Sc. in Geography. Pontifícia Universidade Católica de Minas Gerais, Brazil. Thesis: “Disabled people in the state of Minas Gerais, Brazil: an approach spatial and demographic using the data of census 2000” (José Irineu Rangel Rigotti, advisor).
2006. BA in Geography. Pontifícia Universidade Católica de Minas Gerais, Brazil.

**ADDITIONAL EDUCATION**

2019. Methods and Models for Spatial Analysis on Population and Climate Change – Asian Demographic Research Institute (ADRI).
2017. Winter 2017 GIS Institute – Brown University.
2016. Spatial Data Analysis Techniques in the Social Sciences – Brown University (Prof. Luc Anselin).
2012. IPUMS Latin America IV Workshop – V Latin American Conference of Population (ALAP)
2012. Spatial Analysis of Demographic Data (workshop) – V Latin American Conference of Population (ALAP).

2012. Using microdata from the Census 2010 to subsidize demographic analyses (workshop) – XVIII National Meeting of Population Studies (ABEP).

#### ARTICLES AND BOOKS PUBLISHED

2022. BAPTISTA, E.A. (2022). Blindness and vision loss in Japan: A spatio-temporal analysis. *Transactions in GIS*, 00, 1–15. <https://doi.org/10.1111/tgis.12961>
2022. BAPTISTA, E.A.\*, QUEIROZ, B.L., LIMA, E.E.C.d. (2022). Regional COVID-19 mortality in Brazil by age. *Vienna Yearbook of Population Research* 20(1), TBA-OLF. DOI: 10.1553/populationyearbook2022.res2.3
2021. BAPTISTA, E.A.\*, QUEIROZ, B.L., PINHEIRO, P.C. (2021). Regional distribution of causes of death for small areas in Brazil, 1998-2017. *Frontiers in Public Health* 9:601980. DOI: 10.3389/fpubh.2021.601980
2021. LIMA, E.E.C.d., GAYAWAN, E., BAPTISTA, E.A.\*, QUEIROZ, B.L. (2021). Spatial pattern of COVID-19 deaths and infections in small areas of Brazil. *PLoS ONE* 16(2): e0246808. DOI: 10.1371/journal.pone.0246808
2021. BAPTISTA, E.A.\*, DEY, S., PAL, S. (2021). Chronic respiratory disease mortality and its associated factors in selected Asian countries: evidence from panel error correction model. *BMC Public Health* 21, 53. DOI: 10.1186/s12889-020-10042-7
2020. ROTH, G.A., MENSAH, G.A.,..., BAPTISTA, E.A. (2020). Global burden of cardiovascular diseases and risk factors, 1990-2019: update from the GBD 2019 Study. *Journal of the American College of Cardiology*. 2020 Dec, 76 (25) 2982–3021. DOI: 10.1016/j.jacc.2020.11.010
2020. QUEIROZ, B.L., FREIRE, F., LIMA, E.E.C., GONZAGA, M., BAPTISTA, E.A.\* (2020). Patterns of geographic variation of mortality by causes of death for small areas in Brazil, 2010. In: Jivetti, B., Hoque M.N. (eds) Population Change and Public Policy. Applied Demography Series, vol 11. Springer, Cham. DOI: 10.1007/978-3-030-57069-9\_20
2020. KAKINUMA, K., PUMA, M.J., HIRABAYASHI, Y., TANOUE, M., BAPTISTA, E.A., KANAE, S. (2020). Flood-induced population displacements in the world. *Environmental Research Letters*, 2020, 15 124029. DOI: 10.1088/1748-9326/abc586
2020. CAMPOS, J., RIGOTTI, J.I.R., BAPTISTA, E.A.\*, MONTEIRO, A.M.V., REIS, I.A. (2020). Population Estimates from Orbital Data of Medium Spatial Resolution: Applications for a Brazilian Municipality. *Sustainability*, 2020, 12(9), 3565. DOI: 10.3390/su12093565
2020. BAPTISTA, E.A., KAKINUMA, K. & QUEIROZ, B.L. (2020). Association between Cardiovascular Mortality and Economic Development: A Spatio-temporal Study for Prefectures in Japan. *International Journal of Environmental Research and Public Health*, 17(4), 1311. DOI: 10.3390/ijerph17041311

2019. BAPTISTA, E.A. & QUEIROZ, B.L. (2019). The relation between cardiovascular mortality and development: Study for small areas in Brazil, 2001–2015. *Demographic Research*, 41, 1437-1452. DOI: 10.4054/DemRes.2019.41.51
2019. BAPTISTA, E.A. & QUEIROZ, B.L. (2019). Spatial Analysis of Mortality by Cardiovascular Disease in the Adult Population: A Study for Brazilian Micro-Regions Between 1996 and 2015. *Spatial Demography*, 7, 83-101. DOI: 10.1007/s40980-019-00050-6
2018. BAPTISTA, E.A., ABEL, G.J. & CAMPOS, J. (2018). Internal migration in Brazil using circular visualization. *Regional Studies, Regional Science*. DOI: 10.1080/21681376.2018.1526649
2018. BAPTISTA, E.A., QUEIROZ, B.L. & RIGOTTI, J.I.R. (2018). Decomposition of mortality rates from cardiovascular disease in the adult population: a study for Brazilian micro-regions between 1996 and 2015. *Revista Brasileira de Estudos de População*, 35(2). DOI: 10.20947/S102-3098a0050
2017. BAPTISTA, E.A. (2017). Detection of clusters migratory in Brazil. *Revista da ANPEGE*, v.13, p.40-56. DOI: 10.5418/RA2017.1322.0002
2017. BAPTISTA, E.A., CAMPOS, J. & RIGOTTI, J.I.R. (2017). Return migration in Brazil. *Mercator*, v.16, p.1-18. DOI: 10.4215/rm2017.e16010
2015. ANDRADE, R.L.M. & BAPTISTA, E.A. (2015). Focusing public health policies in the state of Minas Gerais between 2011 and 2014: a study using application of geospatial intelligence. *Revista da ANPEGE*, v.11, p.123-149. DOI: 10.5418/RA2015.1116.0006
2014. BAPTISTA, E.A. & RIGOTTI, J.I.R. (2014). Minas Gerais and its disabled population: a study from the Demographic Censuses of 2000 and 2010. *Caderno de Geografia* (PUCMG. Impresso), v. 24, p. 98-118. DOI: 10.5752/P.2318-2962.2014v24n41p98

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#### FORTHCOMING AND UNDER REVIEW PAPERS

2021. Emerson A. Baptista and Bernardo L. Queiroz. “Spatial analysis of cardiovascular mortality and associated factors around the world”. Under review at *BMC Public Health*.
2021. Sampurna Kundu, Subhojit Shaw, Sourav Dey, Junaid Khan, Aparajita Chattopadhyay, Emerson A. Baptista\* and Balram Paswan. “E-cigarette use in selected countries”. Under review at *BMJ Open*.
2020. Xia Haibin, **Emerson A. Baptista\*** and Liu Qingchun. “Spatial heterogeneity of internal migration in China: the role of Economic, Social and Environmental Characteristics”. Under review at *Annals of Regional Science*.

#### RESEARCH

- 2021-2024. Direct and indirect impacts of the COVID-19 pandemic on mortality and life expectancy among subnational population in Brazil and Mexico (Marcos Gonzaga, PI). Universidade Federal do Rio Grande do Norte, Brazil. CNPq grant (Number 406432/2021-0).

- 2018-2021. Estimating Mortality by causes in small areas in Brazil (Bernardo Lanza Queiroz, PI). Universidade Federal de Minas Gerais / Cedeplar, Brazil. CNPq grant (Number 421183/2018-7).
- 2017-2020. How can we understand the function and response of the Earth's system in the face of demographic changes? (Emerson Baptista, PI). Asian Demographic Research Institute, Shanghai University.
- 2015-2017. Biome Restoration of Brazil's Mata Atlântica: can we promote equitable socioeconomic development while saving the world's most threatened tropical forest?" (Leah VanWey, coordinator). Brown University.
- 2012-2013. Population estimates for small areas to answer social demands (Laura Lídia Wong, coordinator). Universidade Federal de Minas Gerais, 2012-2013.

### **FUNDING & AWARDS**

- 2021-2024 . CNPq – Brazil (Grant number 406432/2021-0)
- 2018-2021 . CNPq – Brazil (Grant number 421183/2018-7)
- 2017-2020 . Oriental Young Scholar Program – China

### **RECENT CONFERENCE PRESENTATIONS**

2022. MASFERRER, Claudia; BAPTISTA, Emerson; GARCIA-GUERRERO, Victor. Migration from the United States: spatio-temporal variation within Mexican municipalities. In: PAA 2022 Annual Meeting, Atlanta, US.
2021. KAKINUMA, Kaoru; PUMA, Michael; HIRABAYASHI, Yukiko; TANOUE, Masahiro; BAPTISTA, Emerson; KANAE, Shinjiro. Global risk of flood-induced population displacement. In: International Population Conference 2021, Hyderabad, India.
2021. LI, Xueting; JIANG, Leiwen; BAPTISTA, Emerson Augusto. Spatial Analysis of Social Vulnerability to Environmental Risks: A Study for China Prefectures in 2000 and 2010. In: PAA 2021 Annual Meeting, Online, US.
2021. BAPTISTA, Emerson Augusto; QUEIROZ, Bernardo Lanza. Spatial Analysis of Cardiovascular Mortality and Associated Factors around the world. In: PAA 2021 Annual Meeting, Online, US.
2019. QUEIROZ, Bernardo Lanza; FREIRE, F. H. M. A.; GONZAGA, M.; LIMA, E. E. C.; BAPTISTA, Emerson Augusto. Trends and Patterns of Geographic Variation of Mortality by Causes of Death for Small Areas in Brazil, 1996–2016. In: PAA 2019 Annual Meeting, Austin, US.
2019. BAPTISTA, Emerson Augusto; CAMPOS, Jarvis; ABEL, Guy. Internal Migration Flows in Brazil Using Circular Visualization. In: PAA 2019 Annual Meeting, Austin, US.
2019. BAPTISTA, Emerson Augusto; KC, Samir. Spatial Variations of Dengue Fever in Brazil. In: PAA 2019 Annual Meeting, Austin, US.
2018. CAMPOS, Jarvis; RIGOTTI, José Irineu Rigotti; MONTEIRO, Antônio Miguel Vieira; REIS, Ilka Afonso; BAPTISTA, Emerson Augusto. Population estimates from satellite data of medium spatial resolution: applications in municipalities of the Metropolitan Region of Belo

- Horizonte. In: National Meeting of Population Studies (ABEP) 2018, Poços de Caldas, Brazil.
2018. BAPTISTA, Emerson Augusto; QUEIROZ, Bernardo Lanza; RIGOTTI, José Irineu Rigotti. Decomposition of mortality rates from cardiovascular disease in the adult population: a study for Brazilian micro-regions between 1996 and 2015. In: European Population Conference (EAPS) 2018, Brussel, Belgium.
2018. BAPTISTA, Emerson Augusto; QUEIROZ, Bernardo Lanza. Spatial Analysis of mortality by cardiovascular disease in the adult population: a study for Brazilian micro-regions between 1996 and 2015. In: PAA 2018 Annual Meeting, Denver, US.
2017. BAPTISTA, Emerson Augusto; VANWEY, Leah; NELSON, Jon. Migratory dynamics in the cocoa region of Brazil. In: PAA 2017 Annual Meeting, Chicago, US.
2017. BAPTISTA, Emerson Augusto; VANWEY, Leah; NELSON, Jon. Property Size and Land Use in the Brazilian Atlantic Forest. In: PAA 2017 Annual Meeting, Chicago, US.
2015. BAPTISTA, Emerson Augusto. The rain erosion process in the region of Buritis neighborhood, BH/MG. In: V Congresso Brasileiro de Gestão Ambiental, 2015.
2013. BAPTISTA, Emerson Augusto; CAMPOS, Jarvis. Return migration in Brazil over five-years periods 1986/1991, 1995/2000 and 2005/2010. In: XXVII IUSSP International Population Conference, 2013, Busan, Korea.
2012. BAPTISTA, Emerson Augusto; RIGOTTI, José Irineu Rigotti; CAMPOS, Jarvis. Spatial and demographic approach to the disabled population in the State of Minas Gerais from the Demographic Census of 2000 and 2010. In: V Congreso de la Asociación Latinoamericana de Población, 2012, Montevideo.

## TEACHING

Center for Demographic, Urban and Environmental Studies, El Colegio de Mexico

*Graduate:*

Advanced Statistic: Spatial Analysis, 2021/2022 - 1

Asian Demographic Research Institute, School of Sociology and Political Science

*Graduate:*

Spatial Analysis for Population Studies, Spring 2018; Winter 2018, 2019, 2020, 2021, 2022  
Population, Environment and Climate Change, Fall 2018

*Undergraduate:*

Introduction to GIS for Social Sciences, Summer 2019, 2020; Spring 2021

Pontifícia Universidade Católica de Minas Gerais

*Graduate:*

Geodatabase, Summer 2017

Universidade Federal de Minas Gerais (UFMG)

*Undergraduate:*

Spatial distribution of the population, Spring 2014

Centro Universitário de Belo Horizonte (UniBH)

*Undergraduate:*

GIS, Spring 2014, Fall 2015

Quantification in Geography, Fall 2015

Geoeconomy, Spring 2014

Cartography, Fall 2014

**SUPERVISION OF GRADUATE STUDENTS**

2021- . Master (1) student at the Center for Demographic, Urban and Environmental Studies. El Colegio de Mexico, Mexico.

2019- . Masters (2) students at Asian Demographic Research Institute, Shanghai University.

**ADVISORY ROLES**

Journal Reviewer: Brazilian Journal of Population Studies (REBEP)

Demographic Research

Genus

International Journal of Health Geographics

PLOS ONE

Population Health Metrics

Population Review

Quality of Life Research

Vienna Yearbook of Population Research

**PROFESSIONAL ASSOCIATIONS:**

- Brazilian Association of Population Studies (ABEP)
- International Union for the Scientific Study of Population (IUSSP)
- Latin American Association of Population (ALAP)
- Population Association of America (PAA)

**SOFTWARE SKILLS**

- R; SPSS; Stata; ArcGis; Geoda; Corel

**REFEREES**

Bernardo Lanza Queiroz

Email: blanza@cedeplar.ufmg.br

Universidade Federal de Minas Gerais/Cedeplar

Guy Abel

Email: guy.abel@shu.edu.cn

Asian Demographic Research Institute (ADRI) - Shanghai University  
Wittgenstein Centre (IIASA, VID/OAW, WU), Vienna Institute of Demography.

Everton E. Campos de Lima

Email:



Unicamp