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Curriculum Vitae
Emerson Augusto Baptista

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ACADEMIC POSITIONS

- 2017- . 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. Institute at Brown for Environment and Society (IBES).
- 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**, Principal Investigator).

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

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. <https://doi.org/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." DOI: 10.1016/j.jacc.2020.11.010. *Journal of the American College of Cardiology*. 2020 Dec, 76 (25) 2982–3021.
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. "Flood-induced population displacements in the world." DOI: 10.1088/1748-9326/abc586. *Environmental Research Letters*, 2020, 15 124029.
2020. CAMPOS, J., RIGOTTI, J.I.R., BAPTISTA, E.A.*, MONTEIRO, A.M.V., REIS, I.A. "Population Estimates from Orbital Data of Medium Spatial Resolution: Applications for a Brazilian Municipality." DOI: 10.3390/su12093565. *Sustainability*, 2020, 12(9), 3565.
2020. BAPTISTA, E.A., KAKINUMA, K. & QUEIROZ, B.L. "Association between Cardiovascular Mortality and Economic Development: A Spatio-temporal Study for Prefectures in Japan." DOI: 10.3390/ijerph17041311. *International Journal of Environmental Research and Public Health*, 17(4), 1311.
2019. BAPTISTA, E.A. & QUEIROZ, B.L. "The relation between cardiovascular mortality and development: Study for small areas in Brazil, 2001–2015." DOI: 10.4054/DemRes.2019.41.51. *Demographic Research*, 41, 1437-1452.
2019. BAPTISTA, E.A. & QUEIROZ, B.L. "Spatial Analysis of Mortality by Cardiovascular Disease in the Adult Population: A Study for Brazilian Micro-Regions Between 1996 and 2015." DOI: 10.1007/s40980-019-00050-6. *Spatial Demography*, 1-19.
2018. BAPTISTA, E.A., ABEL, G.J. & CAMPOS, J. "Internal migration in Brazil using circular visualization." DOI: 10.1080/21681376.2018.1526649. *Regional Studies, Regional Science*.
2018. BAPTISTA, E.A., QUEIROZ, B.L. & RIGOTTI, J.I.R. "Decomposition of mortality rates from cardiovascular disease in the adult population: a study for Brazilian micro-regions between 1996 and 2015." DOI: 10.20947/S102-3098a0050. *Revista Brasileira de Estudos de População*, 35(2).

2017. BAPTISTA, E.A. "Detection of clusters migratory in Brazil." DOI: 10.5418/RA2017.1322.0002. *Revista da ANPEGE*, v.13, p.40-56.
2017. BAPTISTA, E.A., CAMPOS, J. & RIGOTTI, J.I.R. "Return migration in Brazil." DOI: 10.4215/rm2017.e16010. *Mercator*, v.16, p.1-18.
2015. BAPTISTA, E.A. "The population of disabled in the state of Minas Gerais, Brazil - spatial and demographic approach using the 2000 Census data." 1. ed. Saarbrücken: Novas Edições Acadêmicas, 2015. v. 1. 117p.
2015. ANDRADE, R.L.M. & BAPTISTA, E.A. "Focusing public health policies in the state of Minas Gerais between 2011 and 2014: a study using application of geospatial intelligence." DOI: 10.5418/RA2015.1116.0006. *Revista da ANPEGE*, v.11, p.123-149.
2014. BAPTISTA, E.A. & RIGOTTI, J.I.R. "Minas Gerais and its disabled population: a study from the Demographic Censuses of 2000 and 2010." DOI: 10.5752/P.2318-2962.2014v24n41p98. *Caderno de Geografia* (PUCMG. Impresso), v. 24, p. 98-118.

* *Corresponding author*

FORTHCOMING AND UNDER REVIEW PAPERS

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*.
2020. **Emerson Baptista**, Bernardo L. Queiroz, Pedro Cisalpino. "Regional distribution of causes of death for small areas in Brazil, 1998-2017". Under review at *Frontiers Public Health*.

RESEARCH

- 2020- . Spatial analysis of cardiovascular mortality and associated factors around the world (Emerson Baptista, PI). Asian Demographic Research Institute, Shanghai University.
- 2020- . Blindness and vision loss in Japan (Emerson Baptista, PI). Asian Demographic Research Institute, Shanghai University.
- 2019- . Estimating Mortality by causes in small areas in Brazil (Bernardo Lanza Queiroz, PI). Universidade Federal de Minas Gerais / Cedeplar, Brazil.
- 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

- 2019- . CNPq – Brazil
2017- . Oriental Young Scholar Program – China

RECENT CONFERENCE PRESENTATIONS

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, Járvis; 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, Járvis; 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, Járvis. 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, Járvis. 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

Asian Demographic Research Institute, School of Sociology and Political Science
Graduate:

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

Undergraduate:

Introduction to GIS for Social Sciences, Summer 2019, 2020

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

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

ADVISORY ROLES

Journal Reviewer: Brazilian Journal of Population Studies (REBEP)

Demographic Research

International Journal of Health Geographics

PLOS ONE

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

Available upon request.