José Henrique Costa Monteiro da Silva

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Born: January 13, 1993—Brasilia, Brazil
Nationality: Brazilian

Current Position

Researcher
International Policy Centre for Inclusive Growth
United Nations Development Programme

Areas of Specialization

Quantitative Methods • Fertility • Data Analysis

Education

2019   **MSc** in Demography, Institute of Philosophy and the Humanities, University of Campinas. Thesis: _Fertility and educational pairing in Brazil : a Cohort analysis_. Supervisor: Everton E. C. Lima. Co-Supervisor: Maria Coleta F. A. de Oliveira.

2016   **BSc** in Electrical Engineering, Faculty of Electrical and Computer Engineering, University of Campinas. Undergraduate Thesis: _Modelling the corn transportation logistics in Brazil as a minimum-cost flow problem._ Supervisor: Akebo Yamakami.

2015   Exchange Student at The University of Melbourne, Australia. Sponsored by CNPq (Brazilian National Council for Scientific and Technological Development).

Courses and Workshops

2019   Survival Analysis (6oh). Professor: Eduardo Nakano. Department of Statistics, Institute of Exact Sciences, University of Brasilia. Brasilia, Brazil.

| 2017 | Methods for Sub-national Population Projections (30h). Professor: Dr. Marcos R. Gonzaga. São Paulo School of Advanced Science on Research Methods for the Humanities - FAPESP (São Paulo Research Foundation) - University of Campinas. Campinas, Brazil. |

| 2017 | Event History Analysis (30h). Professor: Dr. Benoit Laplante. São Paulo School of Advanced Science on Research Methods for the Humanities - FAPESP (São Paulo Research Foundation) - University of Campinas. Campinas, Brazil. |

Professional and Research Experience

2018-   **Researcher** at the International Policy Centre for Inclusive Growth - UNDP, Brasilia – DF, Brazil. Activities: quantitative analysis of survey data (data manipulation and visualization, construction of indicators, statistical inference, impact evaluation) and elaboration of technical reports for projects targeting vulnerable populations of developing countries.

2017-2019   **Researcher - Master Student (full time)** at Department of Demography of the Institute of Philosophy and the Humanities of the University of Campinas. Activities: demographic research and teaching assistance. Funded: CNPq (Brazilian National Council for Scientific and Technological Development).

2014   **Electrical Engineering Intern** at "CPFL Energia", Campinas – São Paulo, Brazil. Activities: analysis of data from smart meters with remote monitoring and billing within the Smart Metering Center.

2013-2014   **Academic Research Internship** at the School of Electrical and Computing Engineering of the University of Campinas. Project: Analysis of the behavior of the domestic load curve of Brazilian Electric System by applying seasonal hour tariffs; implemented in MATLAB. Supervisor: Luiz Carlos Pereira da Silva – Department of System and Energy, Faculty of Electrical and Computing Engineering, University of Campinas. Funded: CNPq (Brazilian National Council for Scientific and Technological Development).

2012-2013   **Academic Research Internship** at the Institute of Mathematics, Statistics and Computing Science of the University of Campinas. Project: Network optimization with several sources and one sink; implemented in MATLAB. Supervisor: Francisco de Assis Magalhães Gomes – Applied Mathematics Department of Institute of Mathematics, Statistics and Computing, University of Campinas. Funded: FAPESP (São Paulo Research Foundation).

Publications

Conference Presentations

Oral Presentations
Monteiro da Silva, J. H. C.; Lima, E. E. C.. & Oliveira, M. C. F. A. (2018). *Fertility and educational pairing in Latin America: an analysis through cohort fertility.* Paper presented at the XXI National Meeting of Population Studies, Poços de Caldas, Brazil.

Monteiro da Silva, J. H. C.; Lima, E. E. C.. & Oliveira, M. C. F. A. (2018). *Fertility and educational pairing in Latin America: an analysis through cohort fertility.* Paper presented at the European Population Conference, Brussels, Belgium.

Guimarães, R. M.; Monteiro da Silva, J. H. C.; Arruda, N. M.; Botacini, G. P.; Pereira, A. C. R.; Andrade, P. G. & Alves, L. C. (2018). *Age Transition of Mortality According to Group of Causes in Brazil.* Paper presented at the annual meeting of the Population Association of America, Denver, CO.

Poster Presentations
Monteiro da Silva, J. H. C.; **Lima, E. E. C.**; Oliveira, M. C. F. A. (2018). *Fertility and educational pairing in Latin America: an analysis through cohort fertility.* Poster session presented at the annual meeting of the Population Association of America, Denver, CO.

Journal Articles

Lima, E. E. C.; **Monteiro da Silva, J. H. C.** & Skirbekk, V. (2019) *Cohort fertility trends and religion affiliation in Latin America: a glimpse through time.* Journal of Religion and Demography, 6 (2).

Carreira, G. B; Dutra, V. G. P.; **Monteiro da Silva, J. H. C.** & Guimarães, R. M. (2019) *Social inequality, human development and fertility pattern in Brazil, 2000-2010.* Revista Brasileira de Saúde Materno Infantil, Recife, 18 (4): 835-850.

Jacques, F. V. L.; **Monteiro da Silva, J. H. C.** & Guimarães, R. M. (2019) *Qualidade da informação da idade nos registros de óbito no Brasil, 1996-2015.* Revista Eletrônica de Comunicação Informação e Inovação em Saúde, Rio de Janeiro, 13 (1): 158-171.

Technical Reports

Cunha, A.; Sawyer, D; **Monteiro da Silva, J. H. C.**; Lazzarini, L.; Rocha, M.; Santos, T. (2020) *Country selection for a comparative case study on labour law systems.* Policy Research Brief 65. International Policy Centre for Inclusive Growth (IPC-IG/UNDP),

Brasília, Brazil.

Freire, F. H. M. A; Gonzaga, M. R.; Queiroz, B. L.; **Monteiro da Silva, J. H. C.** (2019) *Estimação e projeção probabilística das taxas de mortalidade municipais por idade e sexo, Brasil 2010 - 2030.* In: Sawyer, D.O (coord.). Seguridade Social Municipais. Projeto Brasil 3 Tempos. Secretaria Especial de Assuntos Estratégicos da Presidência da República (SAE/SG/PR) , United Nations Development Programme, Brazil (UNDP) and International Policy Centre for Inclusive Growth. Brasília (IPC-IG).

Sawyer, D. O.; **Monteiro da Silva, J. H. C.**; Mazive, E. ; Hoffman, M.; Gyoeri, M. ; Olsson, S.; Santos, T. V. M.; Nogueira, V. V. *&* Silva, W. J. (2019) *Evaluation of the Coverage and Benefit Incidences of Food Fortification in Mozambique.* International Policy Centre for Inclusive Growth (IPC-IG/UNDP), Brasília, Brazil.

Consulting

Lima, E. E. C. *&* **Monteiro da Silva, J. H. C.** (2019 - on progress) *fertestr: R package for indirect fertility estimation and assessment of parity data.* United Nations Population Division (UNPD).

Azevedo, M. M. A.; Lima, E. E. C. *&* **Monteiro da Silva, J. H. C.** (2019) *Maternal mortality estimation for Brazilian indigenous population using 2010 national census information.* United Nations Fund for Population Activities (UNFPA).

Teaching

2018   **Graduate Teaching Assistant**. Subject: Demography (Undergraduate course for Bachelor of Statistics). Subject Coordinator: Professor Everton Emanuel Campos de Lima. Department of Demography, Institute of Philosophy and the Humanities, University of Campinas.

2017   **Graduate Teaching Assistant**. Subject: Statistics for the Social Sciences. Subject Coordinator: Professor Luciana Alves. Department of Demography, Institute of Philosophy and the Humanities, University of Campinas.

2016   **Undergraduate Teaching Assistant**. Subject: Electrical Machines Laboratory. Subject Coordinator: Marcelo Villalva – Faculty of Electrical and Computing Engineering, University of Campinas.

2014   **Undergraduate Teaching Assistant**. Subject: Electric Circuits for Mechanical Engineering. Subject Coordinator: Akebo Yamakami – Faculty of Electrical and

Computing Engineering, University of Campinas.

Languages

Brazilian Portuguese: native
English: fluent
Spanish: very good command
Italian: basic communication skills

Technical Skills

Programming Languages: R, Python, MATLAB, C
Text Edition: LaTeX, R Markdown, Microsoft Word, Libreoffice
Other: Ubuntu, Linux Mint, Windows OS, Microsoft Excel, Github, Gitlab

References

Everton Lima
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College of Philosophy and Human Sciences - University of Campinas
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Vegard Skirbekk
Senior Researcher
Norwegian Institute of Public Health
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