

Vienna, October 2020

## CURRICULUM VITAE

### **Vanessa di Lego, PhD.**

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Birthdate: September 15, 1986

Place of Birth: Parnamirim, Rio Grande do Norte, Brazil.

### **EDUCATION**

Ph.D. 2014 - 2017. Demography. Cedeplar (Center for Regional Development and Planning), Faculty of Economics, UFMG, Belo Horizonte, Brazil. Advisor: Dr. Cássio Maldonado Turra. Title (original in English): “Vanguards of Longevity: The case of Brazilian Air Force”.

M.A. 2012 - 2014. Demography. Cedeplar (Center for Regional Development and Planning), Faculty of Economics, UFMG, Belo Horizonte, Brazil. Advisor: Dr. Cássio Maldonado Turra/ Co-advisor Dr. Cibele Cesar. Title (original in English): “Mortality levels among Brazilian Air Force Officers”.

B.A. 2006 - 2010. Social Sciences. Major: Sociology. FAFICH (Faculty of Philosophy and Humanities), UFMG, Belo Horizonte, Brazil. Minor: Philosophy. Advisor: Dr. Antônio Augusto Pereira Prates. Title (original in Portuguese): “Talcott Parsons e a interdisciplinaridade: uma possível via para integração”/ “Talcott Parsons and interdisciplinarity: towards an integrational framework”.

### **COMPLEMENTARY EDUCATION/WORKSHOPS**

2020 – July 13-17. 5-day Data visualization course at MPIDR, provided online by Ilya Kashnitsky.

2019 – October 22-23. 2-day Data visualization course as part of the GGP conference, provided by Ilya Kashnitsky, Paris, France.

2016 - Summer School “Demography of Health and Education” (11 hours), Wittgenstein Centre (IIASA, VID/ÖAW, WU); REVES Meeting, 2016).

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2013- Workshop “Demographic Microsimulations using the Program Socsim and the statistical software R” (30 hours), led by Profs. Carl Mason (UC - Berkeley) and Emilio Zagheni (at the time Queens College CUNY); Post Graduate Program in Demography (Cedeplar/UFGM).

2009 - 2010 Philosophy, as part of Minor degree in the Social Sciences undergraduate course (360 hours).

Universidade Federal de Minas Gerais, UFGM, Belo Horizonte, Brazil

## **AREAS OF SPECIALIZATION**

- Gender differences in health and mortality
- Differential longevity and mortality of subgroups;
- Life table techniques
- Formal demography

## **PROFESSIONAL POSITIONS/WORK EXPERIENCE**

2018- Current – Post-doc Research scientist at the Vienna Institute of Demography VID/ÖAW, working in the “Health and Longevity” research group headed by Dr. Marc Luy, in the ERC project “**Levels and Trends of Health Expectancy: Understanding its Measurement and Estimation Sensitivity**”. My main task in the project is to assess how different measures, sources of data and estimation techniques affect health indicators. My focus is on gender differences in health and mortality, particularly in why do women live longer than men but expect to spend a higher proportion of their lives in poorer health.

2016 – 2017 - Consultant for UNFPA under the project BRA05SAE- Product development for the National Commission on Population and Development (CNPD), for the topic **Ageing and Intergenerational Transfers: trends, determinants, consequences, challenges and political responses- National Experience from BRICS countries**. Funding: BRA09/71305

2016 – 2017 - Consultant for UNFPA under the project BRA05SAE- Product development for the National Commission on Population and Development (CNPD), for the topic “**Gender equality and women’s role in caring for young children and the dependent elderly: trends, challenges and policy responses - National Experience from BRICS countries**”. Funding: BRA09/71305.

2016-2017 - Consultant for UNFPA under the project **Ageing Population: Where are we after 15 years of the Madrid Plan (LACRO)**. Number and name of project: GTEC714P/ Funding: GTEC714P-11410-KRA13-PU004-STCKRPGRNT

2015-2016 - Research Assistant for project of local development in collaboration of Cedeplar with UNFPA: **Developing mortality estimates for regional provinces of Afghanistan**, with a particular focus on the challenges in estimating gender specific adult

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mortality. The report I was responsible for is “**SDES Adult Mortality Monograph**”, available at: <https://afghanistan.unfpa.org/en/publications/sdes-adult-mortality-monograph>

2014-2105 - Teaching Lecturer/Assistant. I was fully responsible for two disciplines (total of 60 hours), including syllabus, teaching and grading: **Introduction of Demography to Social Sciences** and **Introduction of Demography to Management of Health Services**.

2010-2011 - Research and administrative Assistant. I was responsible for administrative work, including budget control, funding planning, and organization of academic events. I was also a research assistant for the project “**Biotechnologies and the Human Condition**”. Center for Contemporary Studies (NEPC), at the Faculty of Philosophy and Human Sciences/UFGM.

2007-2010- Researcher at PET-SESu/MEC, UFGM Brazil, where I carried on my bachelor’s research in sociological theory.

## **GRANTS AND AWARDS**

2018 – Editor’s Choice: selected paper from Demographic Research.

2014 – 2017 CNPq/Cedeplar Department PhD. Full Doctoral Scholarship (first place in selection process)

2017 – Travel award to the 28th International Population Conference of the International Union for the Scientific Study of Population (IUSSP) in Cape Town, South Africa at the Cape Town International Conference Centre (CTICC) from 29 October to 4 November 2017.

2016 – Full travel award for participation in the Summer School on “The Demography of Health and Education”, in conjunction with the REVES 2016 Meeting in Vienna 6th June – 15th June 2016.

2012-2014 – Fapemig/Cedeplar Full Master Scholarship

2010-2011 – Fundep/Research and Administrative assistant. Center for Contemporary Studies (NEPC), at the School of Philosophy and Human Sciences/UFGM.

## **PEER REVIEWED PUBLICATION**

**di Lego, V. (2020) Health-adjusted life expectancy (HALE) and Healthy life years (HLY): What do they measure?** *Cadernos de Saúde Coletiva, forthcoming.*

Luy, Marc; Di Giulio, Paola; **di Lego, Vanessa**; Lazarevič, Patrick; Sauerberg, Markus. (2019). **Life expectancy: frequently used, but hardly understood**, *Gerontology* 66(1): 95-104 (published online: 08.08.2019)

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**di Lego V., Turra C., Cesar C. (2017). Mortality selection among adults in Brazil: The survival advantage of Air Force officers. *Demographic Research* (37) 41:1339–1350. doi:10.4054/DemRes.2017.37.41**

**di Lego, V. (2016). Limits to human life expectancy and Biotechnologies. 3<sup>rd</sup> International Colloquium of the Center for Contemporary Studies (NEPC): Biotechnologies and Regulations- Contemporary Challenges. (In Portuguese). Belo Horizonte, September 2-4, 2014. ISBN: 978-85-62707-65-0**

## **BOOK CHAPTERS**

**di Lego, Vanessa; Di Giulio, Paola; Luy, Marc (2020). Gender Differences in Healthy and Unhealthy Life Years, in: Jagger, C.; Crimmins, E.; Saito, Y.; De Carvalho Yokota, R.; Van Oyen H.; Robine, J.-M. (eds.): International Handbook of Health Expectancies, Cham, Springer: 151-172.**

**di Lego, Vanessa; Lazarevič, Patrick; Luy, Marc. (2019) The Male-Female Health-Mortality Paradox, in: Gu, Danan; Dupre, Matthew E. (eds.): Encyclopedia of Gerontology and Population Aging, Dordrecht et al., Springer, doi: 10.1007/978-3-319-69892-2\_798-2 (published online: 17.10.2019).**

## **OTHER PUBLICATION**

Sánchez-Romero, Miguel, **di Lego, Vanessa**, Prskawetz, Alexia, L Queiroz, Bernardo. **How many lives can be saved? A global view on the impact of testing, herd immunity and demographics on COVID-19 fatality rates.** TU Working Papers, 05/2020

Sobotka, Tomáš, Brzozowska, Zuzanna, Muttarak, Raya, Zeman, Kryštof **di Lego, Vanessa.** (2020) **Age, gender and COVID-19 infections.** medRxiv 2020.05.24.20111765. doi: <https://doi.org/10.1101/2020.05.24.20111765>

Sobotka, Tomas; Zeman, Krystof; Spitzer, Sonja; Reiter, Claudia; **di Lego, Vanessa**; Yildiz, Dilek; Özdemir, Caner; Goujon, Anne; Binder-Hammer, Bernhard; Bloom, David E. ; Fan, Victoria Y. ; Kufenko, Vadim; Ogbuoji, Osondu; Prettnner, Klaus ; Yamey, Gavin; Rowe, Francisco; Bell, Martin; Bernard, Aude ; Charles-Edwards, Elin; Scherbov, Sergei. (2020). **2020 European Demographic Datasheet**, Vienna Institute of Demography: <http://www.populationeurope.org/>

Sobotka, Tomas; Zeman, Krystof; **di Lego, Vanessa**; Goujon, Anne; Hammer, Bernhard; Loichinger, Elke; Sauerberg, Markus; Luy, Marc; Rengs, Bernhard. (2018). **2018 European Demographic Datasheet.** Vienna Institute of Demography: <http://www.populationeurope.org/>

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## **UNDER REVIEW PAPERS**

Sánchez-Romero, Miguel, **di Lego, Vanessa**, Prskawetz, Alexia, L Queiroz, Bernardo. (2020) **An indirect method to monitor the fraction of people ever infected with COVID-19: an application to the United States**. PLOSone.

Nepomuceno, Marília; **di Lego, Vanessa**; Turra, Cássio. (2020) **Decomposition of the Gender Gap in Health Expectancy at older ages in Latin America and the Caribbean**. Vienna Yearbook of Population Research.

## **WORK IN PROGRESS**

Aburto, José Manuel; di Lego, Vanessa; Kashyap, Ridhi; Riffe, Tim; Torrisi, Orsola; van Raalte, Alyson. “Global contribution of violence to lifetime uncertainty”.

di Lego, Vanessa. The “warp” of heterogeneity in mortality: nuisance or necessity?

di Lego, Vanessa. A reappraisal of the resuscitation approach and its applicability to mortality studies.

di Lego, Vanessa; Nepomuceno, Marília; Turra, Cássio. Gender Inequality in Healthy Ageing: A Cross-National Comparison.

## **COURSES/WORKSHOPS TAUGHT**

29-31 July 2019 – 21 hour Introduction to Rmarkdown and Github as data Science tools. Cedeplar, Minas Gerais Brazil. [https://github.com/vdilego/lecture\\_rmarkdown](https://github.com/vdilego/lecture_rmarkdown)

2 -3 Dec 2015 – Introduction to mortality concepts in Historical Demography. 6 hour workshop in which I showed the main problems of mortality data for demographic estimates. Cedeplar/UFMG

4-8 May 2015 – 15 hour course- Introduction to R software programming. FAFICH/UFMG

## **PRESENTED PAPERS AT PROFESSIONAL MEETINGS**

2019 – di Lego, Vanessa. “How many times have our lives been saved? A reappraisal of the resuscitation approach using HMD data”. *Recent Trends and Future Uncertainties in Longevity*. 5<sup>th</sup> Human Mortality Database Symposium. Berlin, Germany. Sponsored by the Max Planck Institute for Demographic Research.

2019 - di Lego, Vanessa; Luy, Marc: “Paradox or Paradoxes? An Overview of the Male-Female Health Paradox Across Different Dimensions of Health in European Countries”, 2019 Annual Meeting of the Population Association of America (PAA), Austin, TX, USA.

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2018 – di Lego, Vanessa. Sensitivity of Health Expectancy to measurement and estimation methods. VID International Summer Workshop 2018, Vienna, Austria.

2018 – di Lego, Vanessa; Turra, Cassio M. “Vanguards of longevity: The case of Brazilian Air Force military”. 2018 EPC meeting, Brussels, Belgium.

2018 – di Lego, Vanessa; Turra, Cassio M. “Vanguards of longevity: The case of Brazilian Air Force military”. Poster presentation at PAA Annual Meeting 2018, Denver, Colorado.

2018 - di Lego, Vanessa; Turra, Cassio M. “Vanguards of longevity: The case of Brazilian Air Force military”. Oral presentation at the 30th REVES Meeting, Ann Arbor, Michigan, USA.

2018 – Luy M, Di Giulio P, di Lego V, Lazarevič & Sauerberg M. “Could the actual decrease in life expectancy be caused by “Tempo Effects”? 30th REVES Meeting, Ann Arbor, Michigan, USA.

2017 – Oral presentation at the 28th International Population Conference of the International Union for the Scientific Study of Population (IUSSP) in Cape Town, South Africa. “Mortality selection among vanguard population subgroups: An analysis of Brazilian Air Force officers”. Session: “ Vanguards of longevity”. Tuesday, 31 October 2017, 1:30 PM

2017 – Oral presentation at the 28th International Population Conference of the International Union for the Scientific Study of Population (IUSSP) in Cape Town, South Africa. "Low fertility in Latin America and the Caribbean: an analysis using cohort size variation and age-specific growth rates". Session 707-1 - Perspective on Fertility Transition 2" at the International Population Conference in Cape Town, 2 November 2017: 1:30 PM - 3:00 PM.

2016 – Poster presentation at the VII Congreso de la Asociación Latinoamericana de Población e XX Encontro Nacional de Estudos Populacionais, October 17-22th, in Foz do Iguaçu /PR – Brazil. di Lego, V.; Verona, A. P. “Low fertility in Latin America and the Caribbean: an analysis using cohort size variation and age-specific growth rates”

2016 – Oral presentation at Session on the 28th REVES meeting in Vienna, June 8-10th 2016, hosted by the Vienna Institute of Demography, Wittgenstein Centre. The theme of the meeting was “Determinants of Unusual and Differential Health Expectancy”. di Lego, V.; Turra, C. M; Cesar, C. “Mortality selection among adults in Brazil: the survival advantage of Air Force Officers”.

2016 – Oral presentation at Session on Adult Mortality (58) at PAA Annual Meeting 2016, Washington, D.C. di Lego, V.; Turra, C. M; Cesar, C. “Mortality selection among adults in Brazil: the survival advantage of Air Force Officers”.

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2014 - European Population Conference (EPC). EAPS, Hungarian Demographic Research Institute (HDRI) Corvinus University of Budapest. di Lego, V.; Turra, C. M; Cesar, C “Mortality among Brazilian Air Force Officers”.

2014 - VI Congreso ALAP. Peru, Lima. di Lego, V.; Turra, C. M; Cesar, C “Mortality among Brazilian Air Force Officers”.

2014 - 3<sup>rd</sup> International Colloquium of the Center for Contemporary Studies (NEPC): Biotechnologies and Regulations- Contemporary Challenges”. Belo Horizonte, September 2-4, 2014. “Limits to human life expectancy and the Biotechnologies”.

## **INVITED TALKS**

2020 - di Lego, V. “The new Generation(s) of work? How are changes in population diversity, size and structure changing our concept of work (and why should we care)”. Keynote Speaker at the Talent Garden Vienna: 1st Birthday – online edition. Vienna, Austria.

2019 – di Lego, V. “Men die, women suffer: exploring the gender morbidity-mortality paradox”. Brown-bag seminars at Cedeplar, UFMG, Brazil.

2019 - di Lego, V. “How many times have our lives been saved? the relationship between averting deaths and life expectancy”. Lab Talk sessions in Max Planck Institute for Demographic Research, Rostock, Germany.

2019 – di Lego, V. “Limits to human life expectancy: What do we know?” Presentation at 9th salon of the Singularity University Chapter Vienna entitled "Longevity - on the way to eternal life?", Vienna, Austria.