

Fecha del CVA	25/07/2025
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## Parte A. DATOS PERSONALES

Nombre *	Karen		
Apellidos *	Gonçalves Dos Santos		
Sexo *	No Contesta	Fecha de Nacimiento *	
DNI/NIE/Pasaporte *		Teléfono *	
URL Web			
Dirección Email			
Identificador científico	Open Researcher and Contributor ID (ORCID) *	0000-0002-3075-6779	
	Researcher ID		
	Scopus Author ID		

\* Obligatorio

### A.1. Situación profesional actual

Puesto	Expert in Digital Health (Consultancy)		
Fecha inicio	2025		
Organismo / Institución	Comisión Europea		
Departamento / Centro			
País		Teléfono	
Palabras clave			

### A.2. Situación profesional anterior

Periodo	Puesto / Institución / País
2022 - 2022	Expert (Consultancy) / European Climate, Infrastructure and Environment Executive Agency - CINEA
2019 - 2022	Visiting Researcher (Epidemiology) / Escuela Andaluza de Salud Pública / España
2005 - 2022	Research Fellow (Environmental Epidemiologist) / FIOCRUZ / Brasil
2020 - 2021	Epidemiologist (Consultancy) / WWF Brazil
2017 - 2021	Academic Coordinator / Celso Lisboa University / Brasil
2020 - 2020	Epidemiologist (Consultancy) / Ministry of Science and Technology - MCTIC
1999 - 2005	Undergraduate scientific initiation (Entomology) / FIOCRUZ / Brasil

### A.3. Formación académica

Grado/Master/Tesis	Universidad / País	Año
PhD in Public Health and Epidemiology	ENSP/FIOCRUZ and Swiss Tropical and Public Health Institute - Swiss TPH, University of Basel, Switzerland	2016
Master in Public Health and Environment	National School of Public Health - ENSP	2010
BSc in Life Sciences	University of Rio de Janeiro - UNIRIO, Brazil	2007

### A.4. Indicadores generales de calidad de la producción científica

Total peer-reviewed publications: 20

First-author publications: 10

H-index: 10

i10-index: 10

Total citations: Approximately 500 (as of April 2025, Google Scholar)

Book chapters: 2

Publications under review: 4

Languages of publication: English and Portuguese

Fields of publication: Environmental epidemiology, public health, artificial intelligence applied to health, respiratory and cardiovascular diseases, environmental oncology

International collaborations: ISGlobal (Spain), University College London (UK), Swiss TPH (Switzerland), Columbia University (USA), ENSP/FIOCRUZ (Brazil)

## Parte B. RESUMEN LIBRE DEL CURRÍCULUM

Gonçalves is an early career researcher interested in developing advanced statistical methods for noncommunicable diseases in people exposed to environmental and socio-economic factors. In 2007, she completed her Bachelor of Health Sciences. Her PhD, supervised by Professors Sandra Hacon and Paulo Benchimol-Barbosa, was conferred in September 2016. The thesis explored epidemiological evidence for the relationship between environmental factors (air pollution) and non-communicable disease (cardiovascular diseases) in Brazilian Amazon region. She received two important grants that funded her PhD studies. In 2014, she was awarded with a special PhD for being considered the best student of the doctorate program in Public Health from ENSP, FIOCRUZ. One year later, she received the Travel Grant CAPES Science without Borders Program to be a visiting PhD student for one year at Swiss Tropical and Public Health Institute, University of Basel, Switzerland. Currently, She is a visiting researcher at Andalusian School of Public Health, Granada and an academic coordinator of the Postgraduate distance learning program in Celso Lisboa University, Rio de Janeiro, Brazil. During her research career, she was employed in several research officer and manager roles. This allowed her gaining experience across various types of research studies: epidemiological studies, advanced statistical modelling, meta-analysis, and health service research. Her teaching and training activities were centred on epidemiology and public health. Gonçalves is a professional responsible for her administrative and scientific tasks with a great capacity for synthesis, ability to establish good working relationships and experience of financial management of scientific and administrative projects. She has a particular interest in multi-method study designs that integrate participatory, epidemiological and inter-disciplinary approaches.

## Parte C. MÉRITOS MÁS RELEVANTES

### C.1. Publicaciones

AC: Autor de correspondencia; (nº x / nº y): posición firma solicitante / total autores. Si aplica, indique el número de citaciones

- 1 **Artículo científico**. 2024. The impact of urban configuration types on urban heat islands, air pollution, CO2 emissions, and mortality in Europe: a data science approach. The Lancet Planetary Health [JCR: 18.8].
- 2 **Artículo científico**. 2023. The potential impact of PM2.5 on the covid-19 crisis in the Brazilian Amazon region. Revista de Saúde Pública [JCR: 2.2].
- 3 **Artículo científico**. 2023. Sex Moderates the Relationship Between Social Support and Cardiovascular Prevention Behaviors in Middle-aged and Older Adults, Annals of Behavioral Medicine. Annals of Behavioral Medicine [JCR: 4.2].
- 4 **Artículo científico**. 2020. Estimate of mean daily concentration of fine particulate matter in the Industrial and Port Complex area of Pecém, Ceará, Brazil. Cadernos de saude publica - [JCR: 2.20].
- 5 **Artículo científico**. 2020. Multimorbidity and short-term overall mortality among colorectal cancer patients in Spain: A population-based cohort study [JCR: 7.27]. European Journal of Cancer - [JCR: 7.27].

- 6 **Artículo científico.** 2018. Development of non-linear models predicting daily fine particle concentrations using aerosol optical depth retrievals and ground-based measurements at a municipality in the Brazilian Amazon region. Atmospheric Environment - [JCR: 4.04].
- 7 **Artículo científico.** 2016. Prevalence of risk factors for chronic non-communicable diseases in the municipality of Porto Velho, occidental Amazon, Brazil. Journal of Public Health and Epidemiology [JCR: 1.03].
- 8 **Artículo científico.** 2015. Municipal Temperature and Heatwave Predictions as a Tool for Integrated Socio-Environmental Impact Analysis in Brazil. American Journal of Climate Change [JCR: 1.03].
- 9 **Artículo científico.** 2014. Indicador de vulnerabilidade socioambiental na Amazônia Ocidental. O caso do município de Porto Velho, Rondônia, Brasil. Ciência & Saúde Coletiva [JCR: 2.02].
- 10 **Artículo científico.** 2012. As queimadas na região amazônica e o adoecimento respiratório. Ciência & Saúde Coletiva [JCR: 2.02].
- 11 **Artículo científico.** 2009. Tendência da mortalidade por doenças respiratórias em idosos e as queimadas no Estado de Rondônia/Brasil: período entre 1998 e 2005. Ciência & Saúde Coletiva [JCR: 2.02].

### C.3. Proyectos y Contratos

- 1 **Proyecto.** Projection of scenarios and health impacts due to the expansion of Covid-19 in Brazil. Sandra de Souza Hacon. (Ministry of Science and Technology MCTIC). 01/05/2020-31/12/2020. 50.000 €.
- 2 **Proyecto.** Projection of scenarios of potential health impacts generated by deforestation and fires in the Brazilian Amazon considering the expansion of Covid-19.. Lucas de Oliveira Couto. (WWF Brazil). Desde 01/11/2020. 100.000 €.
- 3 **Proyecto.** Predictive models of temperature-related mortality in Brazil: Projections and multiple scenarios. Sandra de Souza Hacon. (Institute of Space Research - INPE). Desde 01/01/2017. 100.000 €.

### C.5. Estancias en centros de I+D+i públicos o privados

- 1 Swiss Tropical and Public Health Institute - Swiss TPH. University of Basel, Switzerland. Suiza. Basilea. 11/09/2015-11/09/2016. 1 año. Doctorado/a.
- 2 Escuela Andaluza de Salud Pública. España. Granada. Desde 06/07/2019. 1 año - 7 meses. Invitado/a.

### C.6. Dirección de tesis doctorales y/o trabajos de fin de estudios

- 1 (Visiting PhD student) Impacts of Climate Change on Health in Spain and Potential Interventions. ISGlobal. 28/06/2025.
- 2 (PhD) PM2.5 predictions in areas with large development projects in Brazil and health impacts. ENSP, FIOCRUZ, Brazil. 29/08/2024.
- 3 (MSc) Air quality in the Pecém Industrial and Port Complex and its influence on local health. ENSP, FIOCRUZ, Brazil. 04/07/2019.
- 4 (BSc) Influence of biomass air pollution on cardiovascular health in Porto Velho, RO. ENSP, FIOCRUZ, Brazil. 15/06/2015.
- 5 (MSc) Asthma prevalence in the city of Itaboraí, Rio de Janeiro. ENSP, FIOCRUZ, Brazil. 25/05/2013.

### C.7. Méritos de liderazgo

Dr. Karen Gonçalves has demonstrated strong leadership across academic, scientific, and public engagement domains. She served as Academic Coordinator at Celso Lisboa University Center (Brazil), leading postgraduate distance-learning programs and overseeing more than 3,000 students and 50 faculty members. Internationally, she was selected as ISGlobal's ambassador for the Women in Data Science (WiDS) initiative led by Stanford University and was recognized as an inspiring woman in science by the Barcelona Biomedical Research

Park (PRBB). She was also invited by the Brazilian Consulate in Barcelona to promote STEM careers among migrant children. Dr. Gonçalves has supervised and co-supervised MSc, BSc, and Fulbright students from institutions in Brazil, Spain, and the USA. Her advisory work includes contributions to the Brazilian Ministry of Science and Technology, WWF Brazil, and the European Commission (CINEA and DG CNECT) on strategic investments in digital health and environmental research. These roles reflect her commitment to academic excellence, science communication, and policy-relevant research, underlining her capacity to lead interdisciplinary and impactful projects in global health.