GuilhermeJacob

Data Analyst, with background in Law and Economics

contact

languages

French - basic

SQL, LaTeX & Office

expertise

data analysis,

econometrics,

public policy,

complex surveys,

statistical programming,

mathematical modeling,

poverty and inequality,

rights-based approach.

monitoring and evaluation,

education

guilhermejacob.github.io guilhermejacob91@gmail.com

2019-Current M.Sc. in Demography

National School of Statistical Sciences (ENCE)

Graduation Program in Population, Territory and Public Statistics.

ENCE is a division within the Brazilian Institute for Geography and Statistics

(IBGE).

Portuguese - native English - fluent Refresher Course in Economic Theory 2014

Rio de Janeiro Federal University (UFRJ)

Refresher course in microeconomics, macroeconomics, mathematics, statistics,

econometrics and Brazilian economy.

softwares 2009-2013 R, Python, SAS, Stata, SPSS, X-12-ARIMA, CSPro,

B.Sc. in Economics

Amazonas Federal University (UFAM)

Brazilian Economic Model in the 2000s: an economic analysis from Keynes and **Furtado**

My bachelor thesis proposed a new formula for the Mundell-Fleming model, including a hypothesis on the relationship between consumption, imports and

inequality.

Overall Score: 8.39 out of 10.0.

2008-2013 B.A. in Law

Faculdade Martha Falcão DeVry (FMF)

Socioeconomic Etiology of Crime

My bachelor thesis studied the relationship of poverty, inequality, and education as causative factors of criminality, combining the analysis of criminological

theories and empirical testing of statistical models.

Overall Score: 7.98 out of 10.0.

professional experiences

United Nations Children's Fund (UNICEF) 2018-2019

Brasília, Federal District

Consultant

Analysis of school exclusion and overage students using administrative records

and complex survey data.

United Nations Children's Fund (UNICEF) 2015-2017

Brasília, Federal District

UNV Monitoring and Evaluation Officer

Monitoring and evaluation of public policies, focusing on children and

adolescents.

Analysis of health, education, violence and poverty data from public records and

complex survey samples.

Also working on innovative initiatives using mobility data from mobile phones, information poverty measurement, and supporting Zika virus epidemiological

data analysis.

2015-2015 United Nations Children's Fund (UNICEF) Manaus, Amazonas

Consultant

Review and consolidation of social statistics about children and adolescents for the SITAN Report.

2014–2015 Oswaldo Cruz Foundation (Fiocruz) / Ministry of Health / Brazil Manaus, Amazonas Consultant

Consultancy on data collection and analysis of social statistics for the Situation Analysis of children in the Brazilian Amazon, combining equity focus and the rights-based approach. This diagnostic aims to promote more inclusive policies for the most disadvantaged children.

2014–2014 United Nations Children's Fund (UNICEF)

Manaus, Amazonas

Consultant

Collect data and support the analysis of the social and economic statistics of 50 municipalities with the worst living conditions in the Brazilian Amazon. Special focus on children and adolescents.

2014 Amazonas Sustentável Foundation

Manaus, Amazonas

Consultant

Questionnaire data analysis of Mathematics and Portuguese test performance of students in riverside schools of 8 municipalities of the Amazonas State.

2014 Norte MC Consultores Ltda.

Manaus, Amazonas

Consultant

Seasonal adjustment of industrial production by technological intensity data from January, 2002 to December, 2013. Development of programming routines for the X-12-ARIMA program. Results used in "Carta IEDI n.619", publication of the Institute of Studies for Industrial Development (IEDI).

2014 National Council for Scientific and Technological Development (CNPq)Tabatinga,

Amazonas and Manaus, Amazonas

Consultant

Funding Institutions: National Council for Scientific and Technological Development (CNPq), Amazonas State Research Support Foundation (FAPEAM) and United Nations Children's Fund (UNICEF).

Development of data entry application for mobile devices and database set up, using CSPro. Technical support.

2013–2014 United Nations Children's Fund (UNICEF)

Manaus, Amazonas

Consultant

Collect data and support cluster analysis of Brazilian Amazon municipalities. Analysis of socioeconomic indicators. This task was part of UNICEF "Selo Município Aprovado" (Municipal Seal of Approval).

2013 Norte MC Consultores Ltda.

Manaus, Amazonas

Consultant

Seasonal adjustment of industrial production by technological intensity data from January, 2002 to August, 2013. Development of programming routines for the X-12-ARIMA program.

academic experiences

2015–2015 Technical Support

Amazonas State Research Support Foundation (FAPEAM)

Research conducted in partnership between UFAM and FAPEAM

Technical support in the research project "Wealth Measures for Amazonas". Analysis of Amazonas' inequality and poverty indices, using the National Household Survey (PNAD). Production of statistical algorithms for analyzing data from household surveys under complex sample design.

2013 Public Tender – Call Notice n.18/2013

Amazonas Federal University

Subject: Quantitative Methods in Economics

Written Test Result: 5.36 Ranking: 2nd place.

2012 2010	motitate of Applied Economic Research	1 (11 1)	
	Research conducted in partnership between UFAM and IPEA		
	Extraction and analysis of income and consumption micro data from the	,	
	Budget Survey (2002-2003). Also, author of the methodological repolipse.	ort for	
2012	Volunteer Teaching Assistant in International Economics	UFAM	
2011-2012	Scientific Initiation Fellow (PIBIC)	1/CNPq	
	Details:		
	Questionnaire application and data analysis about the profile of the Econ students in UFAM.	iomics	
2011	Fellow Teaching Assistant in Microeconomic Theory I	UFAM	
2010	Fellow Teaching Assistant in Introduction to Economics: Macroeconomic	SUFAM	

Institute of Applied Economic Research (IPEA)

2012–2013 Research Assistant

technical and scientific production					
2018	UNICEF Brasil Publication Panorama do Atraso Escolar Statistical report about overage students in basic education.				
2017	Guest Reviewer in Scientific Journal Journal of Official Statistics Special edition for the "New Techniques and Technologies for Statistics" Conference (NTTS), with the Collaboration in Research and Methodology for Official Statistics (CROS/EUROSTAT). Editorial Collaborators, 2017, 33(4), pp. 1093-1099.				
2017	Co-author of Book Chapter Análise de dados utilizando as libraries survey e convey do R Chapter in "Statistics With R: Inovação no Mercado Profissional", a book composed of articles presented at the International Seminar of Statistics with R at the Fluminense Federal University.				
2017	UNICEF Brazil Publication Boas Práticas: água e saneamento nas escolas do Semiárido Report on good practices on WASH (water and sanitation) for schools in the Brazilian Semi-arid.				
2016	UNICEF Brazil Working Paper Statistical inference for poverty and inequality measures using R "convey" package Author. Part of UNICEF Monitoring and Evaluation Team capacity building.				
2016	R package convey: Income concentration analysis with complex survey samples Co-author. Focus on inequality measurement, subgroup decomposition and variance estimation algorithms.				
2014	Article in Scientific Journal Law, Economics and Criminology: on a method for public policy formulation Co-author. Article published in "Revista de Produção Acadêmico-Científica do Ciesa", Ano 1, v. 1, n. 1, juldec., 2014.				
2014	Technical Report Employment, income and indigenous economy in Tabatinga Author. Report for UNICEF, based on the Indigenous Population Census of Tabatinga.				
2014	Translation to Portuguese NORTH, Douglass. An outline of the process of economic change. Chapters I-V. Unpublished Work.				

2013	Handout	Econometrics I	
	Co-author. Handout used to support "Econometrics I" undergraduate course.		
2011		Profile of UFAM's Economics Students and their identification with the course ation on II UFAM's Economics Course Week.	

training courses

2017	Results-Based Management (RBM)	UNICEF Agora Platform
2017	United Nations Human Rights Responsibilities	UNICEF Agora Platform
2016	Immunization Coverage Data	UNICEF Agora Platform
2016	Introduction to Ethics in Evidence Generation	UNICEF Agora Platform
2016	Gender Equality UN Coherence and You	UNICEF Agora Platform
2016	The Data Scientist's Toolbox	Coursera
2015	Ethics and Integrity at UNICEF	UNICEF Agora Platform

interests

Data analysis, statistical programming, quantitative methods, public policy, monitoring and evaluation, economic development, human rights, rights-based approach, Law and Economics.