

Guilherme Jacob

Data Analyst, with background in Law and Economics

personal

Brazilian
21/06/1991

contact

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languages

Portuguese - native
English - fluent

softwares

R, Stata, SPSS, SAS,
X-12-ARIMA, CSPPro,
SQL, LaTeX & Office

expertise

data analysis,
complex surveys,
statistical programming,
econometrics,
monitoring and evaluation,
public policy,
poverty and inequality,
rights-based approach.

education

- 2014 **Refresher Course in Economic Theory** Rio de Janeiro Federal University (UFRJ)
Refresher course in microeconomics, macroeconomics, mathematics, statistics, econometrics and Brazilian economy.
- 2009–2013 **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

- 2015–Current **United Nations Children's Fund (UNICEF)** Brasília, Distrito Federal
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 CPro. 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 socio-economic 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.
- 2012-2013 **Research Assistant** Institute of Applied Economic Research (IPEA)
 Research conducted in partnership between UFAM and IPEA
 Extraction and analysis of income and consumption micro data from the Family Budget Survey (2002-2003). Also, author of the methodologic report for IPEA.
- 2012 **Volunteer Teaching Assistant in International Economics** UFAM
- 2011-2012 **Scientific Initiation Fellow (PIBIC)** UFAM/CNPq
Details:
 Questionnaire application and data analysis about the profile of the Economics students in UFAM.

2011	Fellow Teaching Assistant in Microeconomic Theory I	UFAM
2010	Fellow Teaching Assistant in Introduction to Economics: Macroeconomics	UFAM

technical and scientific production

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, jul.-dec., 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. <i>An outline of the process of economic change</i> . Chapters I-V. Unpublished Work.
2013	Handout	Econometrics I Co-author. Handout used to support "Econometrics I" undergraduate course.
2011	Presentation	Profile of UFAM's Economics Students and their identification with the course <i>Banner presentation</i> on II UFAM's Economics Course Week.

training courses

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.