

# Leandro Justino Pereira VELOSO

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Rio de Janeiro, Brazil | 21 december 1990  
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## EDUCATION

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OCTOBER 2015 Master's in COMPUTER SCIENCE, **Universidade Federal do Rio de Janeiro**, Brazil  
Thesis: "Implementação do método FDTD para as equações de Maxwell em ambientes de programação paralela,"  
Advisor: Prof. Daniel Gregorio Alfaro Vigo.  
Co-advisor: Prof. Silvana Rossetto.

DECEMBER 2012 BA in STATISTIC **Escola Nacional de Ciências Estatísticas**, Rio de Janeiro, Brazil  
Dissertation: "Estimadores de Murthy e Horvitz-Thompson e suas aplicações em amostragem inversa simples"

## WORK EXPERIENCE

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<i>Current</i> JAN 2017	CONSULTANCY <i>Inter-American Development Bank</i> consulting to assist in the research work on the influence of the work environment of the dynamics of firms, reallocation, and mobility, access to credit, work intermediation and alternative work schemes, among others, organization, and analysis of data used in the study
<i>Current</i> MAI 2016	RESEARCH FELLOW <i>Universidade de São Paulo</i> Member of a research group with studies related to a globalization and environmental innovation. The main contributions to the group are the manipulation of import export microdata, industry and innovation and to the implementation of econometric methods using Stata
<i>Dec 2016</i> JUN 2016	CONSULTANCY <i>Inter-American Development Bank</i> Consulting to elaborate a report on the productive efficiency of SINE (National system of labour) using DEA (Data Envelopment Analysis) and Stochastic frontier analysis (SFA) method. The main tool used is the software STATA
<i>Apr 2016</i> APR 2013	RESEARCH FELLOW IN STATISTICS <i>Instituto de Pesquisa Econômica Aplicada</i> Research assistance using various databases available in Brazil. Among the activities performed, the most relevant are the production of descriptive statistics, statistical models, assistance on using econometric techniques and manipulation of databases, such as: Annual Industrial Survey (PIA-IBGE); Annual Survey of Services (PAS-IBGE); Annual Survey of Trade (PAC-IBGE); Innovation Survey (PINTEC-IBGE); the Annual Social Information (RAIS-MTE). The main tools used are the software SAS, STATA and R. To optimize operation in working with researchers I developed programs in SAS and STATA to perform capital stock, TFP, diff-in-diff, propensity score matching, deflating, translation between classifications (CNAE, ISIC, NACE).
MAR 2013 AUG 2011	Internship <i>FAPES - Fundação de Assistência e Previdência Social do BNDES</i>
AUG 2011 MAY 2011	Internship <i>Instituto de Pesquisa Econômica Aplicada</i>
MAI 2011 MAR 2011	Teaching Assistant - Álgebra Linear I <i>Escola Nacional de Ciências Estatísticas</i>
DEC 2011 JUL 2011	Teaching Assistant - Cálculo das Probabilidades II <i>Escola Nacional de Ciências Estatísticas</i>
JUL 2011 MAR 2011	Teaching Assistant - Álgebra Linear I <i>Escola Nacional de Ciências Estatísticas</i>

## TECHNICAL WORK FOR SPECIFIC PAPERS

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In my professional career I provided technical assistance to many projects with IPEA Cross-Out. In general, my contribution to the project is technically, mainly: manipulation of databases; exploratory data analysis; structuring programs in STATA, R or SAS; and assis-

tance in the implementation of econometric techniques. Some of the works I participated in:

<i>Project</i>	Technical assistance in the article: P&D , inovação e produtividade na indústria brasileira (IPEA).
OBJECTIVE	<i>Study the impact of innovation on productivity. The databases were the Annual Social Information (RAIS-MTE), Annual Industrial Survey (PIA-IBGE), Innovation Survey (Pintec-IBGE) and database of the Secretariat of Foreign Trade (SECEX-MDIC).</i>
TECHNIQUE	<i>Exploratory analysis, two stages models, fixed effect and random effect models and Heckmann.</i>
<i>Project</i>	Technical assistance in the article: Decomposição da evolução da produtividade na indústria e nos serviços no Brasil no período recente a partir de uma ótica evolucionária (IPEA).
OBJECTIVE	<i>Generate a decomposition of prices for measuring the effect of entry, exit and stay in the market. The work was performed at the level of sector to 2 digits of CNAE for the companies in the Annual Industrial Survey (PIA-IBGE), Annual Survey of Trade (PAC-IBGE), and Research IBGE Annual Services (PAS-IBGE).</i>
TECHNIQUE	<i>Prices decomposition( Price's equation).</i>
<i>Project</i>	Technical assistance in the article: Padrões tecnológicos e aprendizado de exportação: o caso das firmas industriais brasileiras, 2006-2008 (IPEA).
OBJECTIVE	<i>Study the effect of learning and technological strategies relate to the company's characteristics such as productivity, size and textit market share. For this purpose microdata from the Annual Social Information (RAIS-MTE), Annual Industrial Survey (IBGE), Innovation Survey (Pintec-IBGE) and the database of the Foreign Trade Secretariat (SECEX-MDIC) were used.</i>
TECHNIQUE	<i>Fixed effect and random effect models and Factor Analisis.</i>
<i>Project</i>	Technical assistance in the article: Economias de escala, Economias de escopo e eficiência produtiva na indústria brasileira de transformação (IPEA).
OBJECTIVE	<i>Computer efficiency indexes for industrial goods produced in Brazil through the Annual Industrial Survey - Product. (PIA-Produto - IBGE).</i>
TECHNIQUE	<i>Stochastic frontier.</i>
<i>Project</i>	Technical assistance for World Bank.
OBJECTIVE	<i>Measuring the impact of the use of online commerce in the productivity of companies in the industrial sector through microdata Annual Industrial Survey (PIA-IBGE) and TIC (NIC.br).</i>
TECHNIQUE	<i>Propensity Score Machting e Stochastic Dominance.</i>

<i>Project</i>	Technical assistance for the project innovation and profitability of the industry information technology sectors (IPEA).
OBJECTIVE	<i>Search empirical evidence and its determinants to the standards of innovation and profitability in the sectors of information and communication technology industry.</i>
TECHNIQUE	<i>fixed effect panel, logistic moldes and diff-in-diff.</i>
<i>Project</i>	Technical assistance in the project innovation indicators (IPEA).
OBJECTIVE	<i>Study propensity indicators to innovation through the IBGE Innovation Survey(Pintec-IBGE) .</i>
TECHNIQUE	<i>Exploratory analysis, logistic moldes.</i>

## ARTICLES IN SCIENTIFIC JOURNALS AND TECHNICAL PRODUCTION

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Article:

- *Melhorando o Desempenho Computacional de um Esquema de Diferenças Finitas para as Equações de Maxwell. Tema Journal.*

Article accepted for publication in book *10 anos da política de inovação no Brasil:*

- *Lei do Bem e Produtividade das Firms Industriais Brasileiras*

Technical assistance on statistical analysis to books:

- *Produtividade no Brasil: desempenho e determinantes - Vol. 2 - Determinantes. 2015*
- *Produtividade no Brasil: desempenho e determinantes - Vol. 1 - Determinantes. 2014*

## SCHOLARSHIPS AND CERTIFICATES

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- 2005 Computer technician course  
*CHR*  
(Period - 112 hours )
- 2007 Participant program and X Scientific Vocation Seminar  
*CBPF - Centro Brasileiro de Pesquisas Físicas*  
Experimental physics - building nanolayers optical films  
(Period - 176 hours)
- 2008 Participant program and XI Scientific Vocation Seminar  
*CBPF - Centro Brasileiro de Pesquisas Físicas*  
Experimental Physics - building a Tesla coil  
(Period - 176 hours)

## LANGUAGES

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PORTUGUESE: Fluent  
ENGLISH: Advanced Knowledge

## COMPUTER SKILLS

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Intermediate Knowledge: vBA, C, CUDA, pacote office,SPSS, Linux,Bloomberg,  $\LaTeX$ , Pascal  
Advanced Knowledge: STATA, SAS, R, Matlab