

# Allan Vieira de Castro Quadros

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## EDUCATION

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### University of Brasilia - UnB

B.Sc. in Statistics

2018

*with Outstanding Student Award*

### State University of Campinas - Unicamp

M.Sc. in Economic Development

2012

Full Teaching degree (B.Ed.) in Geography

2008

## INTERESTS

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Statistical Computing, Statistical Learning, Stochastic Processes, Computational Finance, **R** Programming, Astrostatistics

## EMPLOYMENT

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### National Fund for Educational Development - FNDE

Specialist in Educational Financing

2013-now

### Consulting

Statistics and Data Science Consultant

2017-now

Investment Consultant (*certified by the Brazilian Brokers Association - ANCORD*)

2011-2012

### University Center of Jaguariúna - UniFAJ

Lecturer in Economics

2010-2013

### Brazilian Army

Officer Student

Feb. 2003-Dec. 2003

Officer Candidate

Dec. 2003-Ago. 2004

Second Lieutenant

Ago. 2004-Ago. 2007

First Lieutenant

Ago. 2007-Jun. 2009

## SCIENTIFIC PRODUCTION

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### SOFTWARE

2. emstreeR: An R Package for Fast Computing Euclidean Minimum Spanning Trees.  
CRAN stable version: <https://cran.r-project.org/package=emstreeR>  
Dev version: <https://github.com/allanvc/emstreeR>
1. FisFa - Fiscaliza Fatura (*Invoice Fiscalization*). A Software for Contract Management developed in R and Python.  
Brazilian Patent: BR 51 2016 000212 3. *Two awards winner.*

### WORKING PAPERS

Radio Loud and Radio Quiet dichotomy: a multivariate analysis.

Rafael Souza, Pedro Beaklini, Allan Quadros, Maria Dantas, André Cançado. *Expected for the beginning of 2019.*

### CONFERENCE PAPERS

In Economics:

2. Uma abordagem evolucionista do papel da tecnologia na agricultura (*An evolutionary approach on the role of technology in agriculture*).  
Allan Quadros, Felipe Silva. XIX Brazilian Congress on Economics. Bonito-MS, Brazil. September, 2011. *One of the 14 winner articles selected by the referees.*
1. Estratégias de apropriação de quase-rendas na cadeia produtiva de cafés: o caso dos produtores de cafés especiais da Alta Mogiana (*Strategies on quasi-rent appropriation in the coffee productive chain: the case of Alta Mogiana's growers*).  
Allan Quadros. 49th Congress of the Brazilian Rural and Economic Sociology Society (SOBER). Belo Horizonte-MG, Brazil. July, 2011.

## WORKING e-BOOKS

Um Curso Prático de Estatística Básica em **R** (*A Practical Course on Introductory Statistics using R*).  
Pedro Brom, Allan Quadros. *Expected for the 2nd semester of 2019.*

## PRESENTATIONS

Identificação de Trajetórias Típicas dos Estudantes do ICS/UnB (*Identifying students' typical academic paths at ICS/UnB*).  
Allan Quadros. 22th Congress on Undergraduate Research - UnB. September, 2017 (poster).

## RESEARCH GROUPS AND PROJECTS

3. mlpackR 2018-now  
Description: Development of an R package aiming to provide, via RcppMLPACK, all the functions present in mlpack - the C++ Machine Learning Library, so R users do not have to deal with the C++/Rcpp/R integration.  
Coordination: Allan Quadros. Number of members: 3.
2. Methods and Inference on Clustering 2017-now  
Description: Study and development of new clustering methods and algorithms.  
Coordination: Prof. André Cançado. Number of members: 5.
1. Students' Risk Assessment - University of Brasilia 2016-2017  
Description: Description: Use of Sequence Analysis, Markov Chain, and Logistic Regression to evaluate the risk of students dropping their courses.  
Coordination: Prof. Donald Pianto. Number of members: 10.

## OTHER WRITING

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Quem tem medo de Matemática? (*Who is afraid of Math?*).  
Allan Quadros. A book to help people overcome their fear of mathematics. *In preparation.*

## TEACHING

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|---|-----------------------|
| 9. Data Analysis with <b>R</b> - Intermediate Level<br>Instructor, FNDE, 28 hours     | Jul. 2018             |
| 8. Data Analysis with <b>R</b> - Introductory Level<br>Instructor, FNDE, 21 hours     | Jan. 2018             |
| 7. Business Economics<br>Lecturer, MBA in Financial Management and Accounting, UniFAJ | Fall, 2012            |
| 6. International Trade<br>Lecturer, UniFAJ  | Spring and Fall, 2012 |

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|---|--------------|
| 5. Introduction to Economics<br>Lecturer, UniFAJ  | Fall, 2012   |
| 4. Management and International Trade<br>Invited Lecturer, MBA, Mackenzie Presbyterian University | Spring, 2012 |
| 3. GL600: Market Studies and Marketing<br>Teaching Assistant, Unicamp                             | Spring, 2011 |
| 2. Macroeconomics<br>Lecturer, UniFAJ   | 2010-2012    |
| 1. Microeconomics<br>Lecturer, UniFAJ   | 2010-2012    |

## SCHOLARSHIPS

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| 2. Coordination for the Improvement of the Higher Level Personnel - CAPES | Sep. 2009-Feb. 2012 |
| 1. Innovation Agency of Unicamp - INOVA                                   | May-Sep. 2009       |

## AWARDS AND RECOGNITION

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| 5. Outstanding Student Award<br>Honor conceded by the Department of Statistics at UnB to the student with the highest GPA by the time of the graduation.  | Sep. 2018 |
| 4. Standout Project in Contract Management<br>Awarded to the FisFa software at the 4th ANGC Awards - Best Initiatives of the Year on Contract Management, Brazil.   | Sep. 2018 |
| 3. 1st Place - Strengthening Internal Controls in Public Administration<br>Awarded to the FisFa software at CGU's 4th Good Practices Contest, Ministry of Transparency and Comptroller-General of the Union, Brazil.  | Dec. 2016 |
| 2. 1st Place (of 14) at Estágio de Instrução e Preparação de Oficiais Temporários (EIPOT) ( <i>Army Reserve Officers' Training Corps - Professional Internship</i> )<br>Officer Candidate with the highest grade in the State of Sao Paulo by the end of the military professional internship, 2nd Military Region, Brazilian Army. | Jul. 2014 |
| 1. 2nd Place (of 25) at Núcleo de Preparação de Oficiais da Reserva (NPOR) ( <i>Army Reserve Officers' Training Corps - Basic Course</i> )<br>Officer Student with the second highest grade by the time of the graduation. NPOR Campinas-SP, Brazilian Army.  | Dec. 2013 |