

# 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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Computational Statistics, Statistical Learning, Optimization, Stochastic Processes, Computational Finance, **R** Programming, Astrostatistics

## EMPLOYMENT

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### Consulting

Statistics and Data Science Consultant

Jul. 2017 - now

### National Fund for Educational Development - FNDE

Educational Financing Specialist

May 2013 - now

### RCX Investments

Registered Investment Adviser

Jul. 2011 - Jan. 2012

*accredited by the Brazilian Investment Advisers Association - ANCORD*

### University Center of Jaguariúna - UniFAJ

Lecturer in Economics

Jul. 2010 - Apr. 2013

### Brazilian Army - Infantry Branch

First Lieutenant

Aug. 2007 - Jun. 2009

Second Lieutenant

Aug. 2004 - Aug. 2007

Officer Candidate

Dec. 2003 - Aug. 2004

Officer Student

Feb. 2003 - Dec. 2003

## SCIENTIFIC PRODUCTION

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### SOFTWARE

2. emstreeR: An R Package for Fast Computing Euclidean Minimum Spanning Trees. 2018.

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. 2016.

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.

In Applied Statistics:

1. Análise do nível de pressão sonora ambiental em uma unidade de terapia intensiva neonatal (*Analysis of the environmental sound pressure level in a neonatal intensive care unit*).  
M.A.S.C. Barreto, T. T. F. Malheiros, Allan Quadros, L. S. M. Serra. 34th International Meeting on Audiology (ELA). Foz do Iguaçu-PR, Brazil. (*approved*).

## 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 algorithms available in mlpack - the C++ Machine Learning Library, so R users do not have to deal with the R-Rcpp-C++ 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: 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 **R** - Intermediate Level Jul. 2018  
Instructor, FNDE, 28 hours

8. Data Analysis with **R** - Introductory Level Jan. 2018  
Instructor, FNDE, 21 hours
7. Business Economics Fall, 2012  
Lecturer, MBA in Financial Management and Accounting, UniFAJ
6. International Trade Spring and Fall, 2012  
Lecturer, UniFAJ
5. Introduction to Economics Fall, 2012  
Lecturer, UniFAJ
4. Management and International Trade Spring, 2012  
Invited Lecturer, MBA, Mackenzie Presbyterian University
3. GL600: Market Studies and Marketing Spring, 2011  
Teaching Assistant, Unicamp
2. Macroeconomics 2010 - 2012  
Lecturer, UniFAJ
1. Microeconomics 2010 - 2012  
Lecturer, UniFAJ

## 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 Sep. 2018  
Honor conceded by the Department of Statistics at UnB to the student with the highest GPA by the time of the graduation.
4. Standout Project in Contract Management Sep. 2018  
Awarded to FisFa at the 4th ANGC Awards - Best Initiatives of the Year on Contract Management, National Association of Contract Managers, Brazil.
3. 1st Place - Strengthening Internal Controls in Public Administration Dec. 2016  
Awarded to FisFa at CGU's 4th Good Practices Contest, Ministry of Transparency and Comptroller-General of the Union, Brazil.
2. 1st Place (of 14) at Estágio de Instrução e Preparação de Oficiais Temporários (EIPOT) (*Army Reserve Officers' Training Corps - Professional Internship*) Jul. 2014  
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.
1. 2nd Place (of 25) at Núcleo de Preparação de Oficiais da Reserva (NPOR) (*Army Reserve Officers' Training Corps - Basic Course*) Dec. 2013  
Officer Student with the second highest grade by the time of the graduation. NPOR Campinas-SP, Brazilian Army.