Allan Vieira de Castro Quadros

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EDUCATION

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

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

EMPLOYMENT

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

SOFTWARE

3. **mRpostman**: IMAP Tools for R in a Tidy Way. 2019.
   CRAN stable version: https://cran.r-project.org/package=mRpostman
   Dev version: https://github.com/allanvc/mRpostman

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.
Pedro Beaklini, **Allan Quadros**, Rafael Souza, Marcio Avellar, Maria Dantas, André Cançado. *In preparation.*

CONFERENCE PAPERS

In Economics:

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

In Applied Statistics:

1. **Analysis of the environmental sound pressure level in a neonatal intensive care unit** (*Portuguese title: Análise do nível de pressão sonora ambiental em uma unidade de terapia intensiva neonatal*).
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. May, 2019.

PRESENTATIONS

Identifying students' typical academic paths at ICS/UnB (*Portuguese title: Identificação de Trajetórias Típicas dos Estudantes do 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 (v1.0) - 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

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

TEACHING

11. Data Analysis with **R** - Fast Intermediate Level Aug. 2019
Instructor, FNDE, 15 hours

10. Data Analysis with **R** - Fast Introductory Level Jul. 2019
Instructor, FNDE, 15 hours

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

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

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 App 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.