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, Stochastic Processes, Computational Finance, **R** Programming, Astrostatistics

EMPLOYMENT

Consulting
Statistics and Data Science Consultant   Jul. 2017-now

National Fund for Educational Development - FNDE
Specialist in Educational Financing   May 2013-now

RCX Investments
Registered Investment Advisor   Jul. 2011-Jan. 2012
accredited by the Brazilian Investment Advisors Association - ANCORD

University Center of Jaguariúna - UniFAJ
Lecturer in Economics   Jul. 2010- Apr. 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

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

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

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,
   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.