Allan Vieira de Castro Quadros

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EDUCATION

University of Brasilia - UnB B.Sc. in Statistics Statistics Department "Outstanding Student" Award recipient	2018
State University of Campinas - Unicamp	
M.Sc. in Economic Development	2012
Full Teaching degree (B.Ed.) in Geography	2008

INTERESTS

Statistical Computing, Statistical & Computational Finance, Optimization, Stochastic Processes, Statistical Learning, 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 accredited by the Brazilian Investment Advisers Association - ANCORD	Jul. 2011 - Jan. 2012
University Center of Jaguariuna - UniFAJ Lecturer in Economics	Jul. 2010 - Apr. 2013
Brazilian Army - Infantry Branch First Lieutenant Second Lieutenant Officer Candidate	Aug. 2007 - Jun. 2009 Aug. 2004 - Aug. 2007 Dec. 2003 - Aug. 2004
Officer Student	Feb. 2003 - Dec. 2003

SCIENTIFIC PRODUCTION

SOFTWARE

3. mRpostman: An R Package with IMAP Tools in a Tidy Way. 2019.

CRAN stable version: https://cran.r-project.org/package=mRpostman

Dev version: https://github.com/allanvc/mRpostman

Package's official website: https://allanvc.github.io/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. FisFa has accounted for over US\$ 50 million in savings for the Brazilian Government and received two awards.

WORKING PAPERS

Astrostatistics:

Beaklini P., Quadros A., Souza R. S., Avellar M., Dantas M. L., Cançado A. "Radio Loud and Radio Quiet dichotomy: a multivariate analysis".

CONFERENCE PAPERS

Economics:

- 2. Quadros A., Silva F. "An evolutionary approach on the role of technology in agriculture" (Portuguese title: Uma abordagem evolucionista do papel da tecnologia na agricultura).

 XIX Brazilian Congress on Economics. Bonito-MS, Brazil. September, 2011. One of the 14 winner articles selected by the referees.
- Quadros A. "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).
 49th Congress of the Brazilian Rural and Economic Sociology Society (SOBER). Belo Horizonte-MG, Brazil. July, 2011.

Applied Statistics:

 Barreto M., Malheiros T., Quadros A., Serra L. "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).
 34th International Meeting on Audiology (ELA). Foz do Iguaçu-PR, Brazil. May, 2019.

TALKS, PRESENTATIONS AND SEMINARS

2. (invited talk) "Data analysis in the Public Sector" (Portuguese title: Análise de dados no Setor Público).

National Fund for Educational Development (FNDE). Brasilia-DF, Brazil. July, 2019.

1. (poster) "Identifying undergraduate students' typical academic paths at ICS/UnB" (Portuguese title: Identificação de trajetórias típicas dos estudantes do ICS/UnB).

22th Congress on Undergraduate Research - UnB. Brasilia-DF, Brazil. September, 2017.

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. Undergraduate students' risk assessment - University of Brasilia

2016 - 2017

Description: Use of Sequence Analysis, Markov Chain, and Logistic Regression to evaluate the risk of students not graduating on time.

Coordination: Prof. Donald Pianto. Number of members: 10.

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

TEACHING

11.	Data Analysis with R - Fast Intermediate Level Instructor, FNDE, 15 hours	Aug. 2019
10.	Data Analysis with R - Fast Introductory Level Instructor, FNDE, 15 hours	Jul. 2019
9.	Data Analysis with R - Intermediate Level Instructor, FNDE, 28 hours	Jul. 2018
8.	Data Analysis with R - Introductory Level Instructor, FNDE, 21 hours	Jan. 2018
7.	Business Economics Lecturer, MBA in Financial Management and Accounting, UniFAJ	Fall, 2012
6.	International Trade Lecturer, UniFAJ	Spring and Fall, 2012
5.	Introduction to Economics Lecturer, UniFAJ	Fall, 2012
4.	Management and International Trade Invited Lecturer, MBA, Mackenzie Presbyterian University	Spring, 2012
3.	GL600: Market Studies and Marketing Teaching Assistant, Unicamp	Spring, 2011
2.	Macroeconomics Lecturer, UniFAJ	2010 - 2012
1.	Microeconomics Lecturer, UniFAJ	2010 - 2012

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

Sep. 2018

Honor conceded by the Department of Statistics at UnB to the student with the highest GPA of the graduating class.

4. Standout Project in Contract Management

Sep. 201

Awarded to my FisFa Software at the 4th ANGC Awards - Best Initiatives of the Year on Contract Management, National Association of Contract Managers (Associação Nacional dos Gestores de Contratos - ANGC), Brazil.

3. **1st Place - Strengthening Internal Controls in Public Administration** Dec. 2016 Awarded to my FisFa Software at CGU's 4th Good Practices Contest, Ministry of Transparency and Comptroller-General of the Union, Brazil.

- 2. 1st Place (of 14) at Army Reserve Officers' Training Corps Professional Internship Jul. 2004 (Estágio de Instrução e Preparação de Oficiais Temporários EIPOT) Officer Candidate with the highest grade in the State of Sao Paulo in the military professional internship, 2nd Military Region, Brazilian Army.
- 1. **2nd Place (of 25) at Army Reserve Officers' Training Corps Basic Course**(Núcleo de Preparação de Oficiais da Reserva NPOR)
 Officer Student with the second highest grade. NPOR Campinas-SP, Brazilian Army.