

# ALLAN QUADROS

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## EDUCATION

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### Kansas State University

Ph.D. in Statistics 2021-present

### University of Brasilia - UnB

B.Sc. in Statistics 2018

*Recipient of the "Outstanding Student" Award*

### State University of Campinas - Unicamp

2. M.Sc. in Economic Development (Agricultural Economics) 2012

1. Licenciatura in Geography 2008

## STATISTICS COURSEWORK

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### Undergraduate Level

Design of Experiments  
Probability Calculus I & II  
Computational Statistics  
Bayesian Inference  
Sampling Techniques  
Time Series Analysis  
Demography  
Stochastic Processes  
Item Response Theory

Linear Regression Analysis  
Categorical Data Analysis  
Statistical Inference  
Exploratory Statistics  
Multivariate Analysis  
Statistical Quality Control  
Operations Research I  
Survival Analysis

### Graduate Level

Statistical Computing  
Mathematical Statistics  
Linear Models I & II  
Analysis of Messy Data

Design of Experiments  
Statistical Inference  
Response Surface Methodology

## WORK EXPERIENCE

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### Department of Statistics — Kansas State University

Graduate Teaching Assistant Jan 2021 - present

### National Fund for Educational Development - FNDE

2. Lead Data Scientist Mar 2020 - Dec 2020

1. Finance Specialist May 2013 - Feb 2020

### RCX Investments

Registered Investment Advisor Jul 2011 - Jun 2012  
*accredited by the Brazilian Investment Advisors Association - ANCORD*

### University Center of Jaguariuna - UniFAJ

Lecturer in Economics Jul 2010 - Apr 2013

## SCIENTIFIC PRODUCTION

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### Open Source Software

**3. onlineretail - Online Retail Dataset (2020)**

**CRAN stable version:** <https://cran.r-project.org/package=onlineretail>

**Dev version:** <https://github.com/allanvc/onlineretail>

**2. mRpostman - An IMAP Client for R (2019)**

*Selected as one of the top 40 new CRAN packages of August, 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>

**1. emstreeR - Tools for Fast Computing and Plotting Euclidean Minimum Spanning Trees (2018)**

**CRAN stable version:** <https://cran.r-project.org/package=emstreeR>

**Dev version:** <https://github.com/allanvc/emstreeR>

### Selected Papers

- 2. von Borries G., Quadros A. "ROC App: an application to understand ROC Curves". *Brazilian Journal of Biometrics*, Volume 40, Issue 2, <https://doi.org/10.28951/bjb.v40i2.566>.**

- 1. Beaklini P., Quadros A., Avellar M., Dantas M., Cançado A. "AGN dichotomy beyond radio loudness: a Gaussian Mixture Model analysis". *Monthly Notices of the Royal Astronomical Society*, Volume 497, Issue 2, September 2020, Pages 1463-1474, <https://doi.org/10.1093/mnras/staa2072>.**

### Other Writting

**Allan Quadros. "Introduction to Data Analisis with R using the Tidyverse"**

*Portuguese title: Introdução à Análise de Dados em R utilizando Tidyverse.*

*On-line textbook that I used in my R courses. Available at: [https://allanvc.github.io/book\\_IADR-T](https://allanvc.github.io/book_IADR-T).*

## OTHER PRODUCTION

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### Statistical Arbitrage Software

**2. LS: An R package to test cointegration amongst SP500 & IBOV stocks (2021)**

*This package deploys several statistical techniques to find the "best" cointegrated pairs in an Exchange and thoroughly estimates the parameters for each model using a Kalman Filter.*

**1. Sentinel LS: Graphical User Interface developed in Python for automated pairs-trading (2022)**

*This GUI uses the reports produced by the LS package to monitor and automatically submit buy/sell orders through Meta Trader 5 following an innovative pairs-trading strategy.*

### Software Developed at FNDE

**2. proPNLD - PNLD Forecasting (2019)**

*Software that fits more than 800,000 time series models to predict the number of students in each grade of each Brazilian public school*

**1. FisFa - Fiscaliza Fatura (2016) (Invoice conformity check).**

*A software for finance accountability and contract management developed in R and Python.*

*Brazilian Patent: BR 51 2016 000212 3.*

## Other

### 2. Politweets (2021)

*Software developed in Python for sentiment analysis on political-related posts on Twitter.*

### 1. Stat D.O.U. (2020)

*Software to scrape daily data from the Brazilian Official Gazette (R & Python).*

## TEACHING

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### 5. STAT325 - Introduction to Statistics

2021 - present

*Instructor, Kansas State University*

### 4. Predictive Analysis (distance)

Aug 2021, May & Aug 2022

*Invited Lecturer, FGV Management*

### 3. Advanced Predictive Analysis (distance)

Mar 2022

*Invited Lecturer, FGV Management*

### 2. Exploratory Data Analysis (distance)

Jul 2021, Jun 2022

*Invited Lecturer, FGV Management*

### 1. Data Analysis with R - Introductory & Intermediate Level

2018 - 2019

*Instructor, FNDE*

## SCHOLARSHIPS

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### 3. Ray & Carollyn Waller Scholarship

Fall 2021 - Spring 2022

*Scholarship awarded by the Department of Statistics in the College of Arts and Sciences at Kansas State University.*

### 2. CAPES Scholarship

Spring 2010 - Fall 2011

*Scholarship awarded by the Economics Department at the State University of Campinas - Unicamp.*

### 1. INOVA Scholarship

Fall 2009

*Scholarship awarded by the Innovation Agency of the State University of Campinas - INOVA/Unicamp.*

## AWARDS AND RECOGNITION

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### 4. University of Brasilia's Honor and Merit Award Nominee

May 2020

*Nominated by the Statistics Department faculty for the University of Brasilia's Honor and Merit Award.*

### 3. Outstanding Student Award

Sep 2018

*Honor conceded by the Department of Statistics at UnB to the student with the highest GPA (4.9641/5.0) at the end of the undergraduate program.*

### 2. Standout Project in Contract Management

Sep 2018

*Awarded to my FisFa Software at the 4th ANGC Awards - Best Initiatives of the Year on Contract Management, National Association of Contract Managers (ANGC), Sao Paulo, Brazil.*

### 1. 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 (CGU), Brasilia, Brazil.*