

# ALLAN QUADROS

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## EDUCATION

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### Kansas State University

**Ph.D. in Statistics** 2021-May 2025\*

### University of Brasilia - UnB

**B.Sc. in Statistics** 2018  
*Recipient of the “Outstanding Student” Award*

### State University of Campinas - Unicamp

1. **M.Sc. in Economic Development** 2012
2. **B.Sc. in Geography** 2008

## WORK EXPERIENCE

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### Department of Statistics — Kansas State University

Graduate Teaching Assistant Jan 2021 - present

### College of Business — Kansas State University

Consultant for the National Bio and Agro-Defense Facility (NBAF) project May 2024 - present

### Getulio Vargas Foundation - FGV

Invited Lecturer in Statistics and Machine Learning Jul. 2021 - Sep. 2024

### National Fund for Educational Development - FNDE

1. Lead Data Scientist Jan 2019 - Dec 2020
2. Data Scientist Apr 2014 - Dec. 2018
3. Finance Specialist May 2013 - Mar 2014

### University Center of Jaguariuna - UniFAJ

Lecturer in Economics Jul 2010 - Apr 2013

### Brazilian Army - Infantry Branch

First Lieutenant Feb 2003 - Jun 2009

## SCIENTIFIC PRODUCTION

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### Peer-reviewed papers

1. **Quadros A.** (2024) “**mRpostman: An IMAP Client for R**”, *Journal of Open Research Software*, 12(1), p. 4. <https://doi.org/10.5334/jors.480>.
2. von Borries G., **Quadros A.** (2022) “**ROC App: an application to understand ROC Curves**”. *Brazilian Journal of Biometrics*, Volume 40, Issue 2, <https://doi.org/10.28951/bjb.v40i2.566>.

3. Beaklini P., **Quadros A.**, Avellar M., Dantas M., Cançado A. (2020) “**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>.

#### Papers under review

1. **Quadros A.**, Higgins M., Silverstein B. (????) “**A Bayesian approach to generate distribution-based trading signals in pairs trading**”, *Quantitative Finance* (Submitted in Sep. 2024).

#### Other Writing

1. **Quadros A. (2022).** “**mRpostman: An IMAP Client for R**”  
*arXiv:2301.03350 [cs.NI]*.
2. **Quadros A. (2020).** “**Introduction to Data Analysis 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).*
3. **Quadros A. (????).** “**Who is afraid of Math?**”  
*A book to help people overcome math anxiety. In progress.*

#### Open Source Software

1. **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 by the “R Views Blog” from RStudio/Posit PBC.*  
CRAN stable version: <https://cran.r-project.org/package=mRpostman>  
Dev version: <https://github.com/allanvc/mRpostman>  
Official website: <https://allanvc.github.io/mRpostman>
3. **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>

#### Private Software

1. **NBAF Equipment Failure Prediction (2024)**  
*Software and statistical methodology developed to estimate the time to failure of large industrial equipment, supporting budget planning and strategic decision-making.*  
Language: R  
Company: Kansas State University / National Bio and Agro-Defense Facility (NBAF) / USDA
2. **Malha Fina (2020)**  
*Financial accountability and fraud detection software.*  
Language: Python & R  
Company: Ministry of Education / National Fund for Educational Development (FNDE) - Brazil
3. **proPNLD - Forecasting (2019)**  
*Software and statistical methodology developed to accurately forecast student enrollment by grade and school across the entire Brazilian public educational system, facilitating the procurement of customized textbooks by the Brazilian federal government.*  
Language: R  
Company: Ministry of Education / National Fund for Educational Development (FNDE) - Brazil

4. **FisFa - Fiscaliza Fatura (2016)** (*Invoice conformity check*).  
*A software solution for financial accountability and contract management that enabled the Brazilian government to achieve over US\$ 50 million in savings between 2015 and 2018.*  
 Language: Python & R  
 Company: Ministry of Education / National Fund for Educational Development (FNDE) - Brazil  
 Brazilian Patent: BR 51 2016 000212 3.

## TEACHING

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1. STAT340 - Biometrics I *Spring 2023 & Fall 2024*  
*Instructor, Kansas State University*
2. STAT703 - Introduction to Statistical Methods for the Sciences *Summer 2023 & 2024*  
*Teaching Assistant, Kansas State University*
3. STAT341 - Biometrics II *Spring 2024*  
*Instructor, Kansas State University*
4. STAT351 - Business and Economic Statistics II *Fall 2023*  
*Teaching Assistant, Kansas State University*
5. STAT325 - Introduction to Statistics *2021 - 2022*  
*Instructor, Kansas State University*
6. Predictive Analysis - Machine Learning (distance) *Fall 2021 - Spring 2024*  
*Invited Lecturer, FGV Management*
7. Advanced Predictive Analysis - Deep Learning (distance) *Spring 2022*  
*Invited Lecturer, FGV Management*
8. Exploratory Data Analysis (distance) *Fall 2021 - Spring 2024*  
*Invited Lecturer, FGV Management*
9. Data Analysis with R - Introductory & Intermediate Levels *2018 - 2019*  
*Instructor, FNDE*

## SCHOLARSHIPS

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1. **Dr. Lynn Ying-Shiang Lin Statistics Graduate Scholarship** *Fall 2024 - Spring 2025*  
*Scholarship awarded by the Department of Statistics in the College of Arts and Sciences at Kansas State University.*
2. **Dr. Lynn Ying-Shiang Lin Statistics Graduate Scholarship** *Fall 2023 - Spring 2024*  
*Scholarship awarded by the Department of Statistics in the College of Arts and Sciences at Kansas State University.*
3. **Ray & Carolyn Waller Scholarship** *Fall 2021 - Spring 2022*  
*Scholarship awarded by the Department of Statistics in the College of Arts and Sciences at Kansas State University.*
4. **CAPES Scholarship** *Spring 2010 - Fall 2011*  
*Scholarship awarded by the Economics Department at the State University of Campinas - Unicamp.*
5. **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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1. **William L. Stamey Award for Excellence in Teaching** *Feb 2024*  
*Awarded by the College of Arts and Sciences at Kansas State University in recognition of excellence in undergraduate level teaching.*
2. **1<sup>st</sup> Place - 26<sup>th</sup> Public Sector Innovation Contest** *Dec 2022*  
*The 'Malha Fina' project won the 'Innovation in Organizational Processes' category, awarded by the National School of Public Administration (Enap) - Brazil.*
3. **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 of 2020.*
4. **Standout Project in Contract Management - 4<sup>th</sup> ANGC Awards** *Sep 2018*  
*The FisFa software won the 'Best Initiative of the Year in Contract Management', awarded by the National Association of Contract Managers (ANGC), São Paulo, Brazil.*
5. **Statistics Department's Outstanding Student Award** *Jul 2018*  
*Awarded by the Department of Statistics at the University of Brasilia (UnB) to the student with the highest GPA (4.9641/5.0) upon completion of the undergraduate program.*
6. **1<sup>st</sup> Place - 4<sup>th</sup> Good Practices Contest** *Dec 2016*  
*The FisFa software won the 'Internal Controls in Public Administration' category, awarded by the Ministry of Transparency and Comptroller-General of the Union (CGU), Brasilia, Brazil.*