

Francisco Hildemar Calixto de Alencar

DATA SCIENTIST JR.

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I am currently a Ph.D. student at the University of Campinas (UNICAMP) in the Department of Statistics. My research consists of the development of classification models for longitudinal data and multivariate distributions. In my research, I use R software to apply theory and develop calculations. I am interested in statistical modeling, programming languages, and technology. I am always looking to improve my computational skills and scientific knowledge.

Education

Doctoral Student in Statistics

Campinas, SP, Brazil

UNIVERSITY OF CAMPINAS

2016 - Currently

- Research project: Finite mixture of linear mixed models for longitudinal data
- Scholarship: CAPES
- Advisor: Larissa Avila Matos
- Co-advisor: Victor Hugo Lachos Dávila
- Will be concluded in March, 2020

Master in Statistics

Recife, PE, Brazil

FEDERAL UNIVERSITY OF PERNAMBUCO

2014 - 2016

- Research project: Bayesian influence diagnostic in a class of Beta Rectangular Regression
- Scholarship: CAPES
- Advisor: Raydonal Ospina Martínez
- Co-advisor: Juvêncio Santos Nobre

Bachelor degree in Statistics

Fortaleza, CE, Brazil

FEDERAL UNIVERSITY OF CEARÁ

2010 - 2013

- Research project: Beta Rectangular Regression Models
- Advisor: Juvêncio Santos Nobre

Experience

TEACHING EXPERIENCE

Teaching Assistant

Campinas, SP, Brazil

UNIVERSITY OF CAMPINAS

S2/2018

- Course: ME414 - Estatística para Experimentalistas
- Advisor: Larissa Avila Matos
- PED B - Integral Teaching Activities

Teaching Assistant

Campinas, SP, Brazil

UNIVERSITY OF CAMPINAS

S1/2018

- Course: ME414 - Estatística para Experimentalistas
- Advisor: Diego Fernando de Bernardini
- PED C - Partial Teaching Support Activities

Institutional Program of Initiation to Teaching Scholarships (PIBID)

Fortaleza, CE, Brazil

FEDERAL UNIVERSITY OF CEARÁ

2012 - 2013

- Teaching Assistant: Probabilidade I; Probabilidade II; Estatística básica; Softwares em Estatística.
- Development of the handout: Simulação Estocástica usando o software livre R.

See here the handout “Simulação Estocástica usando o software livre R”

OTHER EXPERIENCE

Gauss - Junior enterprise

Fortaleza, CE, Brazil

FEDERAL UNIVERSITY OF CEARÁ

2012-2012

- Responsible for managing the financial actions of company
- Statistical consulting services
- Development of the handout: Introdução ao R.

See here the handout “Introdução ao R”

Skills

Analytical

STATISTICAL MODELING

Programming

R (ADVANCED), PYTHON, JAGS, JUPYTER NOTEBOOK

Operating systems

LINUX/UNIX (UBUNTU) AND WINDOWS

Workshop and courses attended

Python Programming: A Concise Introduction

COURSERA/ WESLEYAN UNIVERSITY

Online

2019

Data Visualization with R

UConn SPORTS ANALYTICS SYMPOSIUM (UCSAS) - UNIVERSITY OF CONNECTICUT

Storrs, CT, USA

2019

Introdução ao aprendizado de máquinas usando R

XII ENCONTRO CIENTÍFICO DOS PÓS-GRADUANDOS DO IMECC

Campinas, SP, Brazil

2017

Technical Report

Finite Mixture of Censored Linear Mixed Models for Irregularly Observed Longitudinal Data

University of Connecticut

ALENCAR, FRANCISCO H.C.; MATOS, LARISSA A.; LACHOS, VICTOR H.

2019

- Technical Report, 19-23

Finite Mixture Modeling of Censored and Missing Data Using the Multivariate Skew-Normal Distribution

University of Connecticut

ALENCAR, FRANCISCO H.C.; GALARZA, CHRISTIAN E.; MATOS, LARISSA A.; LACHOS, VICTOR H.

2019

- Technical Report, 19-31

Selected Software

R PACKAGE

CensMFM

2019

FINITE MIXTURE OF MULTIVARIATE CENSORED/MISSING DATA

- It fits finite mixture models for censored or/and missing data using several multivariate distributions. Point estimation and asymptotic inference (via empirical information matrix) are offered as well as censored data generation. Pairwise scatter and contour plots can be generated. Possible multivariate distributions are the well-known normal, Student-t and skew-normal distributions.
- Released to CRAN
- Author and maintainer

Presentations

ORAL PRESENTATION

33rd New England Statistics Symposium (NESS)

Hartford, CT, USA

FINITE MIXTURE OF CENSORED LINEAR MIXED MODELS FOR LONGITUDINAL DATA

May 15-17, 2019

POSTER PRESENTATION

XXI Encontro de Iniciação à Docência

SIMULAÇÃO ESTOCÁSTICA UTILIZANDO O SOFTWARE LIVRE R

Fortaleza, CE, Brazil

2012

Events Attended

UConn Sports Analytics Symposium (UCSAS)

McHUGH HALL, UNIVERSITY OF CONNECTICUT

Storrs, CT, USA

2019

33rd New England Statistics Symposium (NESS)

HILTON HARTFORD

Hartford, CT, USA

2019

XIII Encontro Científico dos Pós-Graduandos do IMECC

INSTITUTO DE MATEMÁTICA, ESTATÍSTICA E COMPUTAÇÃO CIENTÍFICA (IMECC) - UNICAMP

Campinas, SP, Brazil

2018

XII Encontro Científico dos Pós-Graduandos do IMECC

INSTITUTO DE MATEMÁTICA, ESTATÍSTICA E COMPUTAÇÃO CIENTÍFICA (IMECC) - UNICAMP

Campinas, SP, Brazil

2017

XXII Encontro de Iniciação à Docência

FEDERAL UNIVERSITY OF CEARÁ

Fortaleza, CE, Brazil

2013

XXI Encontro de Iniciação à Docência

FEDERAL UNIVERSITY OF CEARÁ

Fortaleza, CE, Brazil

2012