# Francisco Hildemar Calixto de Alencar

#### DATA SCIENTIST JR.

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I am currently a Statistical doctoral student at the University of Campinas working with multivariate finite mixtures. Member of the regression models research group of the UNICAMP Statistics department. I have an interest in statistical modeling and programming languages. Challenges are welcome, as I seek to perfect my abilities and knowledge.

## Education

**Doctoral Student in Statistics** 

Campinas, SP, Brazil

2016 - Currently

University of Campinas

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 · 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

• Research project: Beta Rectangular Regression Models

· Advisor: Juvêncio Santos Nobre

2010 - 2013

S2/2018

S1/2018

2014 - 2016

# **Experience**

University of Campinas

### **TEACHING EXPERIENCE**

**Teaching Assistant** Campinas, SP, Brazil

University of Campinas • Course: ME414 - Estatística para Experimentalistas

· Advisor: Larissa Avila Matos

PED B - Integral Teaching Activities

**Teaching Assistant** Campinas, SP, Brazil

• Course: ME414 - Estatística para Experimentalistas

• Advisor: Diego Fernando de Bernardini

• PED C - Partial Teaching Support Activities

Institutional Program of Iniciation to Teaching Scholarships (PIBID) FEDERAL UNIVERSITY OF CEARÁ

Fortaleza, CE, Brazil

2012 - 2013

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

See here the booklet "Simulação Estocástica usando o software livre R"

#### OTHER EXPERIENCE

**Gauss - Junior enterprise** Fortaleza, CE, Brazil

2012-2012

FEDERAL UNIVERSITY OF CEARÁ

· Responsible for managing the financial actions of company

Statistical consulting services

NOVEMBRO 2019

• Development of the booklet: Introdução ao R.

See here the booklet "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**

Online

2019

COURSERA/ WESLEYAN UNIVERSITY

Data Visualization with R

UCONN SPORTS ANALYTICS SYMPOSIUM (UCSAS) - University of Connecticut

Storrs, CT, USA

### Introdução ao aprendizado de máquinas usando R

Campinas, SP, Brazil

XII ENCONTRO CIENTÍFICO DOS PÓS-GRADUANDOS DO IMECC

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** 

NOVEMBRO 2019

#### 33rd New England Statistics Symposium (NESS)

Hartford, CT, USA

FINITE MIXTURE OF CENSORED LINEAR MIXED MODELS FOR LONGITUDINAL DATA

May 15-17, 2019

### XXI Encontro de Iniciação à Docência

SIMULAÇÃO ESTOCÁSTICA UTILIZANDO O SOFTWARE LIVRE R

Fortaleza, CE, Brazil

2012

## Events Attended \_\_\_\_\_

**UCONN SPORTS ANALYTICS SYMPOSIUM (UCSAS)** 

33rd New England Statistics Symposium (NESS)

Storrs, CT, USA

McHugh Hall, University of Connecticut

Hartford, CT, USA

HILTON HARTFORD

2010

XIII Encontro Científico dos Pós-Graduandos do IMECC

Campinas, SP, Brazil

Instituto de Matemática, Estatística e Computação Científica (IMECC) - UNICAMP

XII Encontro Científico dos Pós-Graduandos do IMECC

Campinas, SP, Brazil

Instituto de Matemática, Estatística e Computação Científica (IMECC) - UNICAMP

**XXII Encontro de Iniciação à Docência**FEDERAL UNIVERSITY OF CEARÁ

Fortaleza, CE, Brazil

XXI Encontro de Iniciação à Docência

Fortaleza, CE, Brazil

FEDERAL UNIVERSITY OF CEARÁ

2012

2017