

Marcus Nunes

PROFESSOR · DATA SCIENTIST · R EXPERT

☎ +55 84 991771551 | ✉ marcus@marcusnunes.me | 🏠 marcusnunes.me | 📷 mnunes | 🌐 marcusnunes

Summary

Assistant Professor at Federal University of Rio Grande do Norte. 10+ years of experience giving lectures on data analysis, statistical consulting, and advising students. I have experience on data science, statistics, machine learning, and R. Interested in data-driven solutions to real-world problems.

Work Experience

Federal University of Rio Grande do Norte

Natal, Brazil

ASSISTANT PROFESSOR

Jan. 2015 - Present

- Lecturer on Introduction to R Language and Statistical Methods (both 300 level courses) and Introduction to Big Data Modeling (400 level course) for the Statistics majors
- Coordinator of the Statistical Consulting Center during 4 years, advising more than 80 students and 6 professors
- 5 papers published on peer-reviewed journals
- Researched subjects on linguistics, ecology, and applied data science projects

Federal University of Juiz de Fora

Juiz de Fora, Brazil

ASSISTANT PROFESSOR

Oct. 2013 - Jan. 2015

- Lecturer on Stochastic Processes and Regression Analysis, both 400 level courses, for the Statistics majors
- Taught Probability for Engineering majors
- Researched how climate and DNA influenced ticks infestation on dairy cattle

Azul Consultoria Estatística

Tramandaí, Brazil

STATISTICAL CONSULTANT

Oct. 2011 - Oct. 2013

- Azul Consultoria Estatística is the company I used to own
- Provided professional advice for companies and researchers from different knowledge backgrounds

Pennsylvania State University

Seoul, S.Korea & LA, U.S.A

TEACHING ASSISTANT

Jan. 2013 - Feb. 2013

- Gave support to the instructors of the courses Statistical Concepts and Reasoning, Elementary Statistics, and Introduction to Biostatistics in the computer labs (200 level courses)
- Responsible to teach the review sessions for the students before their exams

Education

Pennsylvania State University

State College, U.S.

PHD IN STATISTICS

Aug. 2008 - Jul. 2013

- Thesis entitled "Analysis of Next-Gen Sequencing Data with Excess of Zeros"

Federal University of Rio Grande do Sul

Porto Alegre, Brazil

M.S. IN PURE MATHEMATICS

Mar. 2007 - Jul. 2008

- Thesis entitled "Long-Range Stochastic Processes with Fractional Differencing Parameter Varying in Time"

Federal University of Rio Grande do Sul

Porto Alegre, Brazil

B.SC. IN APPLIED MATHEMATICS

Mar. 2003 - Dec. 2006

Honors & Awards

2017 **Research Grant**, Universidade Federal do Rio Grande do Norte

Natal, Brazil

2008 **Fulbright Scholarship**, Fulbright Program

Brasília, Brazil

Publications

Revista da ABRALIN

v. 19 n. 1

UMA COMPARAÇÃO ENTRE ANOVA E MODELOS LINEARES MISTOS PARA ANÁLISE DE DADOS DE TEMPO DE RESPOSTA

2020

- This paper uses monte carlo simulation to show how Linear Mixed Models lead to smaller type I errors than their ANOVA counterpart.

Fisheries Research

v. 221

DECLINING FISHERIES AND INCREASING PRICES: THE ECONOMIC COST OF TROPICAL RIVERS IMPOUNDMENT

2020

- We show how a dam built on Madeira River, in Brazil, influenced on fisheries management.

LETRÔNICA

v. 10

O PAPEL DO CONHECIMENTO DE EVENTOS NO PROCESSAMENTO DE SENTENÇAS ISOLADAS

2017

- We investigate the role of event knowledge in language processing.

Clinical Implant Dentistry and Related Research

vol. 19(1)

INCORPORATION AND REMODELING OF BONE BLOCK ALLOGRAFTS IN THE MAXILLARY RECONSTRUCTION: A RANDOMIZED

2016

CLINICAL TRIAL

- This paper shows that there is a significant difference regarding the resorption of the bone grafts when waiting 4 or 6 months before placing the implants.

Journal of Periodontology

vol. 87(11)

FRESH-FROZEN BONE ALLOGRAFTS IN MAXILLARY ALVEOLAR AUGMENTATION: ANALYSIS OF COMPLICATIONS, ADVERSE

2016

OUTCOMES, AND IMPLANT SURVIVAL

- We show that infection and suture dehiscence are significantly correlated with graft loss in a maxillary augmentation.

Physica A: Statistical Mechanics And Its Applications

vol. 361(2)

LONG MEMORY ANALYSIS IN DNA SEQUENCES

2006

- We built empirical confidence intervals for the differentiation parameter in long-range time series.

Revista do Professor de Matemática

vol. 52

GEOMETRIA DINÂMICA E A LEI DOS COSSENO

2003

- This paper serves as an inspiration to high school teachers on ho to use a computer software to teach the cosine law.