

DAVI BUTTURI ALVIM

Rua Professora Adair Ribeiro Araújo, 261. São João del-Rei, MG, Brazil

davi.butturi@gmail.com

+55 32 984722646

I see myself as an ecologist, who happens to enjoy computers and modeling. It is true that I have a stronger background in Statistics, but I will never stop learning how nature works, which I find actually amazing. I am passionate about what I do and my research interests include Computational and Applied Statistics focused on Ecological Data Analysis and Simulation. As long as I can stay active, I am in a good mood and always trying to find the brighter side of things. Happily married, so much so we had our family name changed, even though I still use my former surname 'Butturi-Gomes' in scientific publications.

Education

USP - Universidade de São Paulo (2011-2015)

PhD in Statistics

I developed an R Package for the statistical analysis of Ames test data, whilst exploring a class of statistical models called vector generalized non-linear models. My advisor was Dr. Silvio Zocchi.

UNESP - Universidade Estadual Paulista (2009-2011)

MSc in Biometrics

I studied a broad class of diversity indices and evaluated the statistical performance of the corresponding estimators by simulating realistic ecological scenarios. My advisor was Dr. Miguel Petrere Jr., with close assistance from Dr. Henrique Giacomini.

UNESP - Universidade Estadual Paulista (2005-2008)

BSc in Ecology

Modules included Community and Population Ecology, Statistical modeling and Hydrology.

Teaching/Supervising Experience

Adjunct Professor at UFSJ - Universidade Federal de São João del-Rei (2017-Present)

I teach basic statistics courses for several undergraduate programs and regularly advise students in their scientific initiation projects. In addition, I teach courses in Generalized Linear Models and in Statistical Ecology in both, Statistics and Ecology, graduate programs.

Postdoctoral Fellow at UNIFAL - Universidade Federal de Alfenas (2016-2017)

I investigated extreme count phenomena using simulation studies and Bayesian inference. My supervisor was Dr. Alberto Beijo.

Recent publications

LIMA, FA; BUTTURI-GOMES, D; PANTOJA, MHN; MARTINELLI-LEMOS, JM. Larval dispersal of *Brachyura* in one of the largest estuarine/marine systems in the world. PLoS ONE, v. 17, n.8, e0252695. <https://doi.org/10.1371/journal.pone.0252695>, 2022

BARROS, D; PETRERE, M; CASTELLO, L; SANTOS, PB; BUTTURI-GOMES, D; ISAAC, VJ. Hydrologic variability effects on catches of *Prochilodus nigricans* in the lower Amazon. Aquatic Sciences, v. 83, p. 1-9, 2021.

BUTTURI-GOMES, D.; PETRERE JÚNIOR, M. Edge influence and population aggregation: On point and interval statistical performances of Morisita patchiness index estimators in different sampling schemes. ECOLOGICAL INDICATORS, v. 108, p. 105736, 2020.

KLEIN, JA; PETRERE, M; BUTTURI-GOMES, D; BARRELLA, W. Textile sustainability: A Brazilian etiquette issue. ENVIRONMENTAL SCIENCE & POLICY, v. 109, p. 125-130, 2020.

BARROS, DF; PETRERE, M; LECOURE, V; BUTTURI-GOMES, D; CASTELLO, L; ISAAC, VJ. Effects of deforestation and other environmental variables on floodplain fish catch in the Amazon. FISHERIES RESEARCH, v. 230, p. 105643, 2020.

CORDEIRO, TC; BARRELLA, W; BUTTURI-GOMES, D; PETRERE JÚNIOR, M. A modeling approach for reposition dynamics of litter composition in coastal areas of the city of Santos, Sao Paulo, Brazil. MARINE POLLUTION BULLETIN, v. 128, p. 333-339, 2018.

BUTTURI-GOMES, D; BEIJO, LA; AVELAR, FG. On modeling the maximum duration of dry spells: a simulation study under a Bayesian approach. THEORETICAL AND APPLIED CLIMATOLOGY, v. 1, p. 1-10, 2018.

Other Skills

R Language



LaTeX



Data Analysis



Listening



Python



Differential Equations



Ecological Networks



Hierarchical Modeling



C++



Spatial Statistics



Adobe PS/Illustrator



Spanish



References

Miguel Petrere Jr., PhD. Universidade Federal do Pará.
<mpetrerejr@gmail.com>

Henrique C. Giacomini, PhD. Ontario Ministry of Natural Resources and Forestry.
<hgiacomini@gmail.com>

Luiz Alberto Beijo, PhD. Universidade Federal de Alfenas.
<prof.beijo@gmail.com>