Rodrigo Rampazo Amadeu

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Nationality: Brazilian

Current position

Ph.D. Student & Graduate Research Assistant, Blueberry Breeding & Genomics Lab
PI: Dr. Patricio Munoz
Horticultural Sciences Department, University of Florida, USA

Areas of specialization

Plant Genetics & Breeding • Statistical-Genetics

Education

2018   M.S. in Plant Genetics and Breeding, ESALQ, University of São Paulo, Brazil
PI: Dr. Antonio Augusto Franco Garcia, Statistical-Genetics Lab

2016   B.Eng. in Agriculture, ESALQ, University of São Paulo, Brazil
PI: Dr. Antonio Augusto Franco Garcia, Concentration: Biotechnology

2016   B.Edu. in Agricultural Sciences, ESALQ, University of São Paulo, Brazil

Journal Articles

2019   Amadeu, *et al*, "Impact of dominance effects on autotetraploid genomic prediction", *Crop Science*, link

2019   Lara, *et al*, "Genomic selection with allele dosage in *Panicum maximum* Jacq.", *G3*, link

2019   Benevenuto, *et al*, "How can a high-quality genome assembly help plant breeders?", *GigaScience*, 8(6), link

2019   de Bem Oliveira, *et al*, "Genomic prediction of autotetraploids; influence of relationship matrices, allele Dosage, and continuous genotyping calls in phenotype prediction", *G3*, 9(4), link

2018   Conson, Taniguti & Amadeu, *et al*, "High-resolution genetic map and QTL analysis of growth-related traits of *Hevea brasiliensis*", *Front. Plant Sci.*, 9(1255), link

2018   Ferreira *et al*, "Metabolite profiles of sugarcane culm reveal the relationship among metabolism and axillary bud outgrowth in genetically related sugarcane commercial cultivars", *Front. Plant Sci.*, 9(857), link

2018   Cellon *et al*, "Estimation of genetic parameters and prediction of breeding values in an autotetraploid blueberry breeding population with extensive pedigree data", *Euphytica*, 214(87), link

2016   Amadeu *et al*, "AGHmatrix: R package to construct relationship matrices for autotetraploid and diploid Species, a blueberry example", *The Plant Genome*, 9(3), link

Awards & Scholarships

2019 Poster Competition Plant Science Symposium, University of Florida - 1st Place Winner
2016 Prof Friedrich Gustav Brieger Prize - Best graduating student of Department of Genetics
2013 Scholarship, Science without Borders - CAPES - 1yr at University of Florida
2012 Scholarship, Scientific Initiation - PIBIC/CNPq - 1yr
2011 Scholarship, Scientific Initiation - Santander - 1yr

Softwares

AGHmatrix author, software to compute relationship matrices for diploid and autopolyploid species, link
onemap contributor, software for constructing genetic maps in experimental crosses, link
onemap2pop author, onemap extension for constructing multi-family genetic maps in outcrossing species, link
fullsibQTL co-author, software for QTL mapping in outcrossing species using composite interval mapping, link

Skills

programming R: advanced (package development, tidyverse, shiny/plotly app, parallelization)
programming shell script, ASReml, LaTeX
statistics experimental analysis of genetic & agricultural data
language english & portuguese

Teaching

2010-... several R programming courses link
2018 TA of Field Plot Techniques, grad, University of Florida
2015 TA of Calculus I, undergrad, University of Sao Paulo
2012 TA of Calculus I, undergrad, University of Sao Paulo
2011-2015 Algebra instructor in a college prep school