Rodrigo Rampazo Amadeu

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Nationality: Brazilian

Areas of specialization

Plant Genetics & Breeding • Statistical-Genetics

Education

Current	Ph.D. student in Horticultural Sciences, IFAS, University of Florida, USA Dr. Patricio Munoz, Blueberry Breeding & Genomics Lab
2018	M.S. in Plant Genetics and Breeding, ESALQ, University of São Paulo, Brazil Dr. Antonio Augusto Franco Garcia, Statistical-Genetics Lab
2016	B.Eng. in Agriculture, ESALQ, University of São Paulo, Brazil Dr. Antonio Augusto Franco Garcia, Minor: Biotechnology
2016	B.Edu. in Agricultural Sciences, ESALQ, University of São Paulo, Brazil

Awards & Scholarships

2020	Scholarship, Murial Rumsey Scholarship, CALS, University of Florida
2019	Scholarship, Outstanding Teaching Assistantship, University of Florida
2019	Award, Poster Competition Plant Science Symposium, University of Florida - 1st Place Winner
2016	Award, 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

Journal Articles

2020	de Oliveira, AA; Resende, MFR; Ferrão, LFV; **Amadeu, RR**; Guimarães, LJM; Guimarães, CT; Pastina, MM; Margarido, GRA. "Genomic prediction applied to multiple traits and environments in second season maize hybrids". *Heredity* 125, link
2020	**Amadeu, RR**; Ferrão, LFV; de Bem Oliveira, I; Benevenuto, J; Endelman, JB; Munoz, PR. "Impact of Dominance Effects on Autotetraploid Genomic Prediction". *Crop Science* 60(2), link
2019	Estrada-Reyes, ZM; Tsukahara, Y; **Amadeu, RR**; Goetsch, AL; Gipson, TA; Sahlu, T; Puchala, R; Wang, Z; Hart, ST; Mateescu, RG. "Signatures of selection for resistance to Haemonchus contortus in sheep and goats". *BMC Genomics* 20(1), link
2019	Lara, LADC; Santos, MF; Jank, L; Chiari, L; Vilela, MDM; **Amadeu, RR**; dos Santos, JP; Pereira, GDS; Zeng, ZB; Garcia, AAF. "Genomic selection with allele dosage in *Panicum maximum* Jacq.". *G3*, 9(8) link

2019   Benevenuto, J; Ferrão, LFV; **Amadeu, RR**; Munoz, P. "How can a high-quality genome assembly help plant breeders?". *GigaScience*, 8(6), link

2019   de Bem Oliveira, I; Resende Jr, MFR; Ferrao, LFV; **Amadeu, RR**; Endelman, JB; Kirst, M; Coelho, ASG; Munoz, PR. "Genomic prediction of autotetraploids; influence of relationship matrices, allele Dosage, and continuous genotyping calls in phenotype prediction". *G3*, 9(4), link

2018   Conson, ARO; Taniguti, CH; **Amadeu, RR**; Andreotti, IAA; de Souza, LM; dos Santos, LHB; Rosa, JRBF; Mantello, CC; da Silva, CC; Scaloppi Jr, EJ; Ribeiro, RV; Le Guen, V; Garcia, AAF; Gonçalves, PS; Souza, AP. "High-resolution genetic map and QTL analysis of growth-related traits of *Hevea brasiliensis*". *Front. Plant Sci.*, 9(1255), link

2018   Ferreira, DA; Abreu, GF; Cheavegatti-Gianotto, A; Soldi, MCM; Carneiro, MS; **Amadeu, RR**; Hoffmann, HP; Aricetti, JA; Wolf, LD; Caldana, C. "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, C; **Amadeu, RR**; Olmstead, JW; Mattia, MR; Ferrao, LFV; Munoz, PR. "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, RR**; Cellon, C; Olmstead, JW; Garcia, AAF; Resende, MF; Munoz, PR. "AGHmatrix: R package to construct relationship matrices for autotetraploid and diploid Species, a blueberry example". *The Plant Genome*, 9(3), link

Software development

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

Skills

programming   R (advanced): package development, tidyverse, shiny/plotly app, parallelization
programming   shell/bash script, ASReml, LaTeX
statistics   analysis of genetic & agricultural data
language   Portuguese (native) & English (high proficiency)

Teaching

2020   TA of Field Plot Techniques, grad level, University of Florida (3x)
2019   TA of Molecular Marker Assisted Plant Breeding, grad level, University of Florida
2019   TA of Field Plot Techniques, grad level, University of Florida
2018   TA of Field Plot Techniques, grad level, University of Florida
2015   TA of Calculus I, undergrad level, University of Sao Paulo
2012   TA of Calculus I, undergrad level, University of Sao Paulo
2011-2015 Algebra instructor in a college prep school

Leadership

2010-2011   Student representative in the B.Edu. in Agr Sciences Committee, University of Sao Paulo
2011-2012   Student representative in the B.Eng. in Agriculture Committee, University of Sao Paulo
2010-2012   Student union member, University of Sao Paulo