Rodrigo Rampazo Amadeu

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Current position

Ph.D. Student & Graduate Research Assistant, Blueberry Breeding & Genomics Lab
Dr. Patricio Munoz's Lab
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
Dr. Antonio Augusto Franco Garcia's Lab, Statistical-Genetics Lab

2016   B.Eng. in Agriculture, ESALQ, University of São Paulo, Brazil
Dr. Antonio Augusto Franco Garcia's Lab, Minor: Biotechnology

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

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*, 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

Awards & Scholarships

2019	Scholarship, Outstanding Teaching Assistantship, AGR5266C, 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

Softwares

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

Skills

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

Teaching

2010-...	several R programming courses link
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