Rodrigo Rampazo Amadeu

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Horticultural Sciences Department
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Current position

Graduate Research Assistant, Blueberry Breeding & Genomics Lab, University of Florida
Analysis of genomic and agricultural data & development of Statistical-Genetics software

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 Assistanship, 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 — Cappai, F; **Amadeu, RR** (*co-first author*); Benevenuto, J; Cullen, R; Garcia, AL; Grossman, AY; Ferrão, LFV; Munoz, PR. "High-resolution linkage map and QTL analyses of fruit firmness in autotetraploid blueberry". *Front. Plant Sci.*, 11(532171), link

2020 — de Bem Oliveira, I; **Amadeu, RR**; Ferrão, LFV; Munoz, PR. "Optimizing whole-genomic prediction for autotetraploid blueberry breeding". *Heredity*, 125, link

2020 — **Amadeu, RR**; Lara, LADC; Munoz, PR; Garcia, AAF. "Estimation of molecular pairwise relatedness in autopolyploid crops". *G3*, Early Online, link

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** (*co-first author*); 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

Presentations

2020 **Amadeu, RR**; Munoz, PR; Chaozhi, Z; Endelman, J. "QTL mapping in auotetraploid multi-parent populations". *The 6^{th} International Conference of Quantitative Genetics (ICQG6).* Virtual conference. Oral session. link

2020 **Amadeu, RR**. "Relationship coefficient in autopolyploid crops". *Graduate Course: Special Topics in Genetics and Breeding*, LGN/ESALQ, Piracicaba, Brazil. Invited Speaker.

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
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 Genetics, 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

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https://github.com/rramadeu/cv/CVAmadeu.pdf