

Rodrigo Rampazo Amadeu

Fifield Hall
2550 Hull Rd
Gainesville, FL, U.S.A.

email: rramadeu@ufl.edu
URL: <https://rramadeu.github.io/>
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, Minor: Biotechnology
- 2016 B.EDU. in Agricultural Sciences, ESALQ, University of São Paulo, Brazil

Journal Articles

- 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 **Amadeu, RR**; Ferrão, LFV; de Bem Oliveira, I; Benevenuto, J; Endelman, JB; Munoz, PR. "Impact of dominance effects on autotetraploid genomic prediction". *Crop Science* [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 <i>Hevea brasiliensis</i> ". <i>Front. Plant Sci.</i> , 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". <i>Front. Plant Sci.</i> , 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". <i>Euphytica</i> , 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". <i>The Plant Genome</i> , 9(3), link

Awards & Scholarships

2019	Poster Competition Plant Science Symposium, University of Florida - 1 st 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, 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