

# Rodrigo Rampazo Amadeu

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## Areas of specialization

Plant Genetics & Breeding • Statistical-Genetics

## Education

Current	Ph.D. student in Horticultural Sciences, IFAS, University of Florida, USA Dr. Patricio Munoz, <a href="#">Blueberry Breeding &amp; Genomics Lab</a>
2018	M.S. in Plant Genetics and Breeding, ESALQ, University of São Paulo, Brazil Dr. Antonio Augusto Franco Garcia, <a href="#">Statistical-Genetics Lab</a>
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 - 1 <sup>st</sup> 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; <b>Amadeu, RR</b> ; Guimarães, LJM; Guimarães, CT; Pastina, MM; Margarido, GRA. "Genomic prediction applied to multiple traits and environments in second season maize hybrids". <i>Heredity</i> 125, <a href="#">link</a>
2020	<b>Amadeu, RR</b> ; Ferrão, LFV; de Bem Oliveira, I; Benevenuto, J; Endelman, JB; Munoz, PR. "Impact of Dominance Effects on Autotetraploid Genomic Prediction". <i>Crop Science</i> 60(2), <a href="#">link</a>
2019	Estrada-Reyes, ZM; Tsukahara, Y; <b>Amadeu, RR</b> ; Goetsch, AL; Gipson, TA; Sahlu, T; Puchala, R; Wang, Z; Hart, ST; Mateescu, RG. "Signatures of selection for resistance to <i>Haemonchus contortus</i> in sheep and goats". <i>BMC Genomics</i> 20(1), <a href="#">link</a>
2019	Lara, LADC; Santos, MF; Jank, L; Chiari, L; Vilela, MDM; <b>Amadeu, RR</b> ; dos Santos, JP; Pereira, GDS; Zeng, ZB; Garcia, AAF. "Genomic selection with allele dosage in <i>Panicum maximum</i> Jacq.". <i>G3</i> , 9(8) <a href="#">link</a>

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

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