

Rodrigo Rampazo Amadeu

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Horticultural Sciences Department
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Nationality: Brazilian

Education

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| 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

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| 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 st 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

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| 2020 | Cappai, F; Amadeu, RR (<i>co-first author</i>); 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". <i>Front. Plant Sci.</i> , 11(532171), link |
| 2020 | de Bem Oliveira, I; Amadeu, RR ; Ferrão, LFV; Munoz, PR. "Optimizing whole-genomic prediction for autotetraploid blueberry breeding". <i>Heredity</i> , 125, link |
| 2020 | Amadeu, RR ; Lara, LADC; Munoz, PR; Garcia, AAF. "Estimation of molecular pairwise relatedness in autopolyploid crops". <i>G3</i> , 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". <i>Heredity</i> , 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". <i>Crop Science</i> , 60(2), link |
| 2019 | Estrada-Reyes, ZM; Tsukahara, Y; Amadeu, RR ; Goetsch, AL; Gipson, TA; Sahl, 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), 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 <i>Panicum maximum</i> Jacq.". <i>G3</i> , 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 autotetraploid multi-parent populations". *The 6th 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

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| 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

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| 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 |