

# Rodrigo Rampazo Amadeu

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## 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, University of São Paulo, Brazil  
2016 B.ENG. in Agriculture, University of São Paulo, Brazil  
2016 B.EDU. in Agricultural Sciences, University of São Paulo, Brazil

## Awards & Scholarships

2019 Poster Competition Plant Science Symposium, University of Florida - 1<sup>st</sup> 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

## Journal Articles

2019 de Bem Oliveira, *et al.*, "Genomic prediction of autotetraploids; influence of relationship matrices, allele Dosage, and continuous genotyping calls in phenotype prediction", *G3*, 3, [link](#)  
2018 Conson, Taniguti & Amadeu, *et al.*, "High-resolution genetic map and QTL analysis of growth-related traits of *Hevea brasiliensis*", *Front. Plant Sci.*, 9(1255), [link](#)  
2018 Ferreira *et al.*, "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 *et al.*, "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 *et al*, "AGHmatrix: R package to construct relationship matrices for autotetraploid and diploid Species, a blueberry example", *The Plant Genome*, 9(3), [link](#)

## Softwares

AGHmatrix author, software to compute relationship matrices for diploid and autopolyploid species, [link](#)  
onemap contributor, software for constructing genetic maps in experimental crosses, [link](#)  
onemap2pop author, onemap extension for constructing multi-family genetic maps in outcrossing species, [link](#)  
fullsibQTL co-author, software for 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 experimental analysis of genetic & agricultural data  
language english & portuguese

## Teaching

2010-... several R programming courses [link](#)  
2018 TA of Field Plot Techniques, grad, University of Florida  
2015 TA of Calculus I, undergrad, University of Sao Paulo  
2012 TA of Calculus I, undergrad, University of Sao Paulo  
2011-2015 Algebra instructor in a college prep school