

Luciano Rogerio Braatz de Andrade

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Education

- 2019 **Ph.D. in Genetics and Breeding**, Federal University of Viçosa, Minas Gerais, Brazil.
- 2015 **Master Degree in Genetics and Breeding with sandwich in USP/ESALQ**, Federal university of Viçosa, Minas Gerais, Brazil.
- 2012 **B.S Agronomy**, Santa Catarina State University, Santa Catarina, Brazil.

Work Experience

- 2021-present **Postdoctoral Associate**. Joint Affiliation: Breeding and Genetics Section, College of Agriculture and Life Sciences, University of Cornell, Ithaca – NY, US.
- 2019-2021 **Technology Innovation Fellow, DTI – A**. Joint Affiliation: Cassava breeding program, EMBRAPA Cassava and Fruits, Bahia, Brazil.
- 2017-2019 **Graduate Research Assistant (During Ph.D. Degree)**, Cassava breeding program, EMBRAPA Cassava and Fruits, Bahia, Brazil.
- 2015-2017 **Graduate Research Assistant (During Ph.D. Degree)**, Laboratory of Bioinformatics, Federal University of Viçosa, Minas Gerais, Brazil.
- 2013-2014 **Graduate Research Assistant (During Master Degree)**, Laboratory of Allogamous Plant Breeding, Luiz de Queiroz College of Agriculture, University of São Paulo.
- 2012 **Undergraduate Research Assistant**, EMBRAPA Wheat, Rio Grande do Sul, Brazil.
- 2nd Semester
2009-2012 **Undergraduate Research Assistant**, Department of Agronomy, Santa Catarina State University, Santa Catarina, Brazil.

Breeding Program Experience

Great background with Breeding strategies and tools for autogamous (Common bean, Triticale, Oat), allogamous (Maize, Rye) and vegetative propagation (Cassava) crops

Work Achievements

Genomic selection applied in EMBRAPA Cassava breeding program

Cassava breeding program management experience

Mixed models applied for clonal selection in cassava breeding program

High throughput phenotyping with VANT and portable NIRS phenotyping

Publications (eleven journal publications) eight in the last five years

- 2021 Fritsche-Neto, R.; Galli, G.; Borges, K.L.R.; Costa-Neto, G; Alves, F.C.; Sabadin, F.; Lyra, D.H.; Morais, P.P.P.; **Andrade, L.R.B. de**; Granato, I.S.C.; and Crossa, J. (2021) Optimizing Genomic-Enabled Prediction in Small-Scale Maize Hybrid Breeding Programs: A Roadmap Review. Front. Plant Sci. 12:658267. doi: 10.3389/fpls.2021.658267

- 2021 Ogonna, A.C.; **Andrade, L.R.B de**; Mueller, L.A.; Oliveira, E.J.de; Bauchet, G.J. (2021) Comprehensive genotyping of a Brazilian cassava (*Manihot esculenta* Crantz) germplasm bank: insights into diversification and domestication, *Theoretical and Applied Genetics*, 10.1007/s00122-021-03775-5.
- 2020 Ogonna, A.C.; **Andrade, L.R.B. de**; Rabbi, I.Y; Mueller, L.A.; Oliveira, E.J.; Bauchet, G.J. (2021). Large-scale genome-wide association study, using historical data, identifies conserved genetic architecture of cyanogenic glucoside content in cassava (*Manihot esculenta* Crantz) root. *Plant Journal* 105(3), 754-770. <https://doi.org/10.1111/tbj.15071>
- 2020 Morais, P.P.P.; Akdemir, D; **Andrade, L.R.B. de**; Jannink, J.L.; Fritsche-Neto, R.; Borem, A.; Alves, F.C.; Lyra, D.H ; Granato, Í.S.C. (2020) Using public databases for genomic prediction of tropical maize lines. *Plant Breeding*, v. 00, p. pbr.12827.
- 2019 **Andrade, L.R.B. de**; Sousa, M.B.; Oliveira, E.J. de; Resende, M.D.V. de; Azevedo, C.F. (2019) Cassava yield traits predicted by genomic selection methods. *Plos One*, v. 14, p. e0224920.
- 2019 Albuquerque, H.Y.G. de; Oliveira, E.J. de; Brito, A.C.; **Andrade, L.R.B. de**; Carmo, C.D. do; Morgante, C.V.; Vieira, E.A.; Moura, E.F.; Faleiro, F.G. (2019) Identification of duplicates in cassava germplasm banks based on single-nucleotide polymorphisms (SNPs). *SCIENTIA AGRICOLA*, v. 76, p. 328-336.
- 2018 Morais, P.P.P.; Sousa, M.B.; Galli, G.; **Andrade, L.R.B. de**; Fritsche-Neto, R.; BORÉM, A. (2018) Yield components and reproductive, physiological, and root traits used in early selection for nitrogen use efficiency in corn. *PESQUISA AGROPECUÁRIA BRASILEIRA (ONLINE)*, v. 53, p. 620-632.
- 2016 **Andrade, L.R.B. de**; Fritsche-Neto, R.; Granato, Í.S.C.; Sant'Ana, G.C.; Morais, P.P.P.; BORÉM, A. (2016) Genetic Vulnerability and the Relationship of Commercial Germplasms of Maize in Brazil with the Nested Association Mapping Parents. *Plos One*, v. 11, p. e0163739.

Extra Activities

- Mentoring and Supervision (i) [since 2018] Supervision of four technicians, and research assistants; (ii) [since 2017] Mentorship of two Ph.D. students, one Master Degree student, ten high school students.
- Scientific Community Contributions (i) NextGen Cassava Breeding project: EMBRAPA Cassava and Fruits Responsible for Breeding and Research Divisions for genomic selection, quality control of breeding activities, and cassava breeding program optimization; (ii) Peer reviewer: (a) *Heredity* (2020-present), (b) *Floresta e Ambiente* (2019-present).
- Society Memberships (i) Sociedade Brasileira de Melhoramento de Plantas.

Professional References

Ph.D Jean-Luc Jannink – Researcher, USDA-ARS Robert W. Holley Center for Agriculture & Health.

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Dr. Tabare Abadie – Leader of Plant Sciences Symposia Series, Corteva Agriscience, Iowa, USA.

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Dr. Eder Jorge de Oliveira - Researcher, EMBRAPA Cassava and Fruits.

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Dr. Roberto Fritsche Neto - Researcher, IRRI.

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