Gerson de Oliveira

Postdoctoral Researcher

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SUMARY

Postdoctoral researcher in Animal Breeding at the University of Guelph, with broad experience in quantitative and genomic analyses, working with large datasets and statistical software. Experience in the analysis, interpretation, and application of genetic data for the implementation and support of commercial breeding programs. Creates and maintains positive and open working relationships with both internal and external individuals and groups.

Professional Experience

University of Guelph

Guelph, ON, Canada

Postdoctoral Researcher — *2018–2021*

- Postdoctoral researcher working with animal breeding genetics. Leading a project that aims to analyze and compare the benefits of various strategies and novel tools to optimize the Canadian dairy cattle breeding program

Semex

Guelph, ON, Canada

Geneticist — *2020–2021*

- One year contract with Semex working part-time (9 hours/week) as a Geneticist on Solution Department.

CRV Brazil

Sertaozinho, SP, Brazil

Genomic Supervisor — *2017–2018*

- Responsible for the genomic database and technical decisions related to company breeding program. Generate and implement innovative solutions and promote research partnership with academic groups, maintaining the company's commanding presence in the marketplace. Effectively represent the company through various channels including written articles in journals, team meetings with farmers, partnering with universities, and giving presentations at conferences.

Education

University of Sao Paulo

SP, Brazil

Ph.D. in Animal Breeding — *2013–2017*

- Thesis focused on genomic analyses, exploring the genomic background of female reproductive traits of beef cattle, in partnership with the University of Copenhagen.", "Expansion of genomic project through utilization of current methodologies and computer software during a year internship at Iowa State University – USA, supervised by Dr. Dorian J. Garrick.

University of Sao Paulo

SP, Brazil

Master in Animal Breeding — *2011–2013*

- Master's project focused on quantitative genetics, working in partnership with a commercial animal breeding program.", "Strategies to include animals without pedigree information were analyzed, successfully generating a strategy used today by a commercial animal breeding company in Brazil.

Skills

R
Bash
SQL
Python

Publications (Last Five Years)

For a complete list of publications see *my Google Scholar profile*.

1. Lynch, C., Oliveira Junior, G., Schenkel, F., & Baes, C. (2021). Effect of synchronized breeding on genetic evaluations of fertility traits in dairy cattle. *Journal of Dairy Science*, *104*(11), 11820–11831.

2. Oliveira Junior, G. A., Pinheiro, V. G., Fonseca, P. A., Costa, C. B., Pioltine, E. M., Botigelli, R. C., Razza, E. M., Ereno, R. L., Ferraz, J. B., Seneda, M. M.others. (2021). Genomic and phenotypic analyses of antral follicle count in aberdeen angus cows. *Livestock Science*, *249*, 104534.

3. Houlahan, K., Schenkel, F. S., Hailemariam, D., Lassen, J., Kargo, M., Cole, J. B., Connor, E. E., Wegmann, S., Oliveira Jr, G. A., Miglior, F.others. (2021). Effects of incorporating dry matter intake and residual feed intake into a selection index for dairy cattle using deterministic modeling. *Animals*, *11*(4), 1157.

4. Oliveira Junior, G., Schenkel, F., Alcantara, L., Houlahan, K., Lynch, C., & Baes, C. F. (2021). Estimated genetic parameters for all genetically evaluated traits in canadian holsteins. *Journal of Dairy Science*, *104*(8), 9002–9015.

5. Oliveira Junior, G., Schaeffer, L., Schenkel, F., Tiezzi, F., & Baes, C. F. (2021). Potential effects of hormonal synchronized breeding on genetic evaluations of fertility traits in dairy cattle: A simulation study. *Journal of Dairy Science*, *104*(4), 4404–4412.

6. Oliveira Junior, G. A., Santos, D. J., Cesar, A. S., Boison, S. A., Ventura, R. V., Perez, B. C., Garcia, J. F., Ferraz, J. B. S., & Garrick, D. J. (2019). Fine mapping of genomic regions associated with female fertility in nellore beef cattle based on sequence variants from segregating sires. *Journal of Animal Science and Biotechnology*, *10*(1), 1–13.

7. Ventura, R. V., Brito, L. F., Oliveira Jr, G. A., Daetwyler, H. D., Schenkel, F. S., Sargolzaei, M., Vandervoort, G., Silva, F. F. e, Miller, S. P., Carvalho, M. E.others. (2019). A comprehensive comparison of high-density SNP panels and an alternative ultra-high-density panel for genomic analyses in nellore cattle. *Animal Production Science*, *60*(3), 333–346.

8. Perez, B. C., Balieiro, J. C., Carvalheiro, R., Tirelo, F., Oliveira Junior, G. A., Dementshuk, J. M., Eler, J. P., Ferraz, J. B., & Ventura, R. V. (2019). Accounting for population structure in selective cow genotyping strategies. *Journal of Animal Breeding and Genetics*, *136*(1), 23–39.

9. Perez, B., Balieiro, J., Oliveira Junior, G., Andrietta, L., Vizona, R., Ventura, R., Bruneli, F., & Peixoto, M. (2019). State of inbreeding and genetic trends for estimated breeding values in IVF embryos and oocyte donors in the brazilian guzera cattle. *Theriogenology*, *125*, 71–78.

10. Santana Jr, M., Eler, J., Oliveira Jr, G., Bignardi, A., Pereira, R., & Ferraz, J. (2018). Genetic variation in nelore heifer pregnancy due to heat stress during the breeding season. *Livestock Science*, *218*, 101–107.

11. Oliveira Junior, G., Perez, B., Cole, J., Santana, M., Silveira, J., Mazzoni, G., Ventura, R., Junior, M. S., Kadarmideen, H., Garrick, D.others. (2017). Genomic study and medical subject headings enrichment analysis of early pregnancy rate and antral follicle numbers in nelore heifers. *Journal of Animal Science*, *95*(11), 4796–4812.

12. Oliveira Junior, G. A., Chud, T. C., Ventura, R. V., Garrick, D. J., Cole, J. B., Munari, D. P., Ferraz, J. B., Mullart, E., DeNise, S., Smith, S.others. (2017). Genotype imputation in a tropical crossbred dairy cattle population. *Journal of Dairy Science*, *100*(12), 9623–9634.