

# SABRINA T. AMORIM

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## EDUCATION

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<b>Virginia Polytechnic Institute and State University, Virginia Tech</b> PhD. in Animal Sciences - Quantitative Genetics	<i>2021 - 2024</i>
<b>Universidade Estadual Paulista, UNESP</b> MSc. in Genetics and Animal Breeding	<i>2018 - 2020</i>
<b>Universidade Federal de Santa Catarina, UFSC</b> B.S. in Animal Sciences	<i>2013 - 2017</i>

## PROFESSIONAL POSITIONS

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<b>Assistant Professor</b> , Oklahoma State University, USA.	<i>2024- Present</i>
<b>Beef Genetic Data Analyst Intern</b> , Genus/ABS, USA.	<i>2023- 2023</i>
<b>CALS Graduate Teaching Scholar</b> , Virginia Tech, USA.	<i>2022- 2024</i>
<b>Graduate Research Assistant</b> , Virginia Tech, USA.	<i>2021- 2024</i>
<b>MSc Research Visitor</b> , Virginia Tech, USA.	<i>2019- 2019</i>
<b>Graduate Research Assistant</b> , Universidade Estadual Paulista.	<i>2018- 2020</i>
<b>Undergraduate Intern</b> , Universidade Estadual Paulista, UNESP, Brazil.	<i>2017-2017</i>
<b>Administrative Assistant</b> , Universidade Federal de Santa Catarina, UFSC, Brazil.	<i>2017-2017</i>
<b>Scientific Research Initiation</b> , Universidade Federal de Santa Catarina, UFSC, Brazil.	<i>2017-2017</i>
<b>Translator, and Producer</b> , Khan Academy Brasil Project, Brazil.	<i>2015-2018</i>

## RESEARCH PROJECTS

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**Genomic Analysis of Environmental Variance in American Angus Cattle**, Virginia Tech.  
2022- 2024.

**Computer vision systems for data-driven monitoring in Animal Sciences**, Virginia Tech.  
2021- 2024.

**An assessment of the relationship between Genomic Connectedness and Prediction Accuracy for fat composition traits in Nellore beef cattle**, Virginia Tech.  
2019- 2019. FAPESP Process: 2019/04929-0.

**Epistatic Interactions associated with Fatty Acid Profile of beef from Nellore cattle**, UNESP.  
2018- 2020. FAPESP Process: 2018/19463-4.

**Genomic Evaluation in a commercial beef cattle population using real and simulated data**, UNESP.  
2016- Present. FAPESP Process:16/22751-6.

**Analysis copy number variation in the genome and its associations with quantitative, qualitative traits and meat fatty acid profile in Nellore cattle, UNESP.**  
2017-Present. CNPq Process: 405025/2016-5.

**Efficiency in feed conversion in Pigs: Association of favorable alleles with nutritional modeling, UFSC.**  
2016-2017. CNPq Process: 102189/2017-0.

**Study of the Genetic Variability of Meat Fatty Acids Profile in Nellore cattle finished in Feedlot, UNESP.**  
2015-Present. FAPESP Process: 11/21241-0.

## PUBLICATIONS

Category	First Author	Co-Author	Total
Peer-Reviewed Journal Papers	4	12	16
Peer-Reviewed Conference Papers	1	1	2
Conference Abstracts	2	9	11
<b>Total</b>	<b>7</b>	<b>22</b>	<b>29</b>

Table 1: Summary of my publications

## PEER REVIEWED JOURNAL PAPERS

**16.** Temp, L.B.; Brunes, L.C.; Pereira, L.S., **Amorim, S.T.**; Magnabosco, C.U.; Lobo, R.B.; Brito, O.C.; Viacava, R.; Baldi, F. **Effect of genetic and sex effect on genomic prediction for horn development in Nellore cattle.** Livestock Science, 2024. DOI: 10.1016/j.livsci.2024.105478.

**15.** Soares, B.B.; Brunes, L.C.; Baldi, F.S., Carmo, A.S.; Pereira, L.S.; Carvalho, R.A.; Narciso, M.G.; **Amorim, S.T.**; Sainz, R.D.; Magnabosco, C.U. **Genetic parameters for visual scores, growth and carcass traits in Nellore Cattle.** Anais da Academia Brasileira de Ciências, 2024. DOI: 10.1590/0001-3765202420230010.

**14.** Negreiros, M.P.; **Amorim, S.T.**; Lôbo, R. B.; Brunes, L.C.; Magnabosco, C.U.; Bergmann, J.A.G.; Espigolan, R.; Pereira, A.S.C.; Baldi, Fernando. **Genetic correlation estimates between calving ease in primiparous cows and economically important traits in Nellore Cattle.** Journal of Animal Breeding and Genetics, 2024. DOI: 10.1111/jbg.12851

**13.** Silva Neto, J.B.; Mota, L.F. M.; **Amorim, S.T.**; Peripolli, E.; Brito, L.F.; Magnabosco, C.U.; Baldi, Fernando. **Genotype-By-Environment Interactions For Feed Efficiency Traits In Nellore Cattle Based On Bi-Trait Reaction Norm Models.** Genetics Selection Evolution, 2023. DOI: 10.1186/s12711-023-00867-2.

**12.** Kadlec, R.; Indest, S.; Castro, K.; Waqar, S.; Campos, L.M.; **Amorim, S.T.**; Bi, Y.; Haningan, M.D.; Morota, G. **Automated acquisition of top-view dairy cow depth image data using an RGB-D sensor camera.** Translational Animal Science, 2022. DOI: 10.1093/tas/txac1639.

**11.** **Amorim, S. T.**; Tsuyuzaki, K.; Nikaido, I.; Morota, G. **Improved MeSH analysis software tools for farm animals.** Animal Genetics, 2022. DOI: 10.1111/age.13159.

**10.** Tonussi, R.L.; Londoño-Gil, M.; De Oliveira Silva, R. M.; Magalhães, A. F. B.; **Amorim, S. T.**; Kluska, S.; Espigolan, R.; Peripolli, E.; Pereira, A. S. C.; Lôbo, R. B.; Aguilar, I.; Lourenço, D. A. L.; Baldi, F. **Accuracy of genomic breeding values and predictive ability for postweaning liveweight and age at first calving in a Nellore cattle population with missing sire information.** Tropical Animal Health and Production, 2021. DOI: 10.1007/s11250-021-02879-w.

9. **Amorim, S. T.**; Stafuzza, N. B.; Kluska, S.; Peripolli, E.; Pereira, A. S. C.; Muller, L. F.; De Albuquerque, L. G.; Baldi, F. **Genome-Wide Interaction Study Reveals Epistatic Interactions for Beef Lipid-Related Traits in Nellore Cattle.** Animal Genetics, 2021. DOI: 10.1111/age.13124.
8. Berton, M. P.; Lemos, M. ; Chud, T.; Stafuzza, N. B.; Kluska, S.; **Amorim, S. T.**; Lopes, L. S. F.; Pereira, A. S. C.; Bickhart, D.; Liu, G.; Albuquerque, L. G.; Baldi, Fernando. **Genome-wide association study between copy number variation regions and carcass and meat quality traits in Nellore cattle.** Animal Production Science, 2021. DOI: 10.1071/AN20275.
7. Feitosa, F. L. B.; Pereira, A. S. C.; Mueller, L.; Fonseca, P.; Braz, C.; **Amorim, S. T.**; Espigolan, R.; Lemos, M. V. A.; Albuquerque, L. G.; Schenkel, F.; Brito, L.; Stafuzza, N. B.; Baldi, F. **Genome-wide association study for beef fatty acid profile using haplotypes in Nellore cattle.** Livestock Science, 2021. DOI: 10.1016/j.livsci.2021.104396.
6. **Amorim, S. T.**; Yu, H.; Momen, M.; Albuquerque, L. G.; Pereira, A. S. C.; Baldi, F.; Morota, G. **An assessment of Genomic Connectedness measures in Nellore cattle.** Journal of Animal Science, 2020. DOI: 10.1093/jas/skaa289.
5. Feitosa, F.L.B.; Pereira, A.S.C.; **Amorim, S. T.**; Peripolli, E.; Silva, R.M.O.; Braz, C.U.; Ferrinho, A.M.; Schenkel, F.S.; Brito, L.F.; Espigolan, R.; de Albuquerque, L.G.; Baldi, F. **Comparison between haplotype-based and individual SNP-based Genomic Predictions for beef fatty acid profile in Nelore cattle.** Journal Of Animal Breeding And Genetics, 2019. DOI: 10.1111/jbg.12463.
4. Peripolli, E.; Stafuzza, N. B.; **Amorim, S. T.**; Lemos, M. V. A.; Grigoletto, L.; Kluska, S.; Ferraz, J. B. S.; Eler, J. P.; Mattos, E. C.; Baldi, F. **Genome-wide scan for runs of homozygosity in composite Montana Tropical® beef cattle.** Journal Of Animal Breeding And Genetics, 2019. DOI: 10.1111/jbg.12428.
3. Stivanin, T.; Maia, F. M. C.; Migliorini, E.; Kluska, S.; **Amorim, S. T.**; Lovatto, F. S.; Martins, E. N. **Evaluation of selection criteria in laying quails (Coturnix coturnix japonica).** Livestock Research for Rural Development, 2019. DOI: 10.13140/RG.2.2.21536.94727.
2. Bonamy, M.; Kluska, S.; Peripolli, E.; Lemos, M. V. A.; **Amorim, S. T.**; Vaca, R. J.; Lobo, R. B.; Castro, L. M.; Faria, C. U.; Ferrari, F. B.; Baldi, F. **Genetic association between different criteria to define sexual precocious heifers with growth, carcass, reproductive, and feed efficiency indicator traits in Nellore cattle using genomic information.** Journal of Animal Breeding and Genetics, v. 136, p. 15-22, 2018. DOI: 10.1111/jbg.12366.
1. **Amorim, S. T.**, Kluska, S.; Berton, M. P.; Lemos, M. V. A.; Peripolli, E.; Stafuzza, N. B.; Martin, J. F.; Alvarez, M. S.; Gavina, B. V.; Toro, M. A.; Banchemo, G.; Oliveira, P. S.; Grigoletto, L.; Eler, J. P.; Baldi, F.; Ferraz, J. B. S. **Genomic study for maternal related traits in Santa Inês sheep breed.** Livestock Science, v. 217, p. 76-84, 2018. DOI: 10.1016/j.livsci.2018.09.011.

## PEER-REVIEWED PROCEEDING PAPERS

2. **Amorim, S. T.**; Eler, J. P.; Grigoletto, L.; Lemos, M. V. A.; Baldi, F.; Ferraz, J. B. S. **Genome Wide Association Study (GWAS) for body weight traits in Santa Ines Sheep breed.** In: World Congress On Genetics Applied To Livestock Production, 2018, Auckland. Proceedings Of The World Congress On Genetics Applied To Livestock Production, Volume Genetic Gain - In Challenging Environments, 2018. V. 11. P. 708-708.
1. Berton, M.; **Amorim, S. T.**; Kluska, S.; Lemos, M. V. A.; Olivieri, B.; Tonussi, R.; Peripolli, E.; Eler, J. P.; Baldi, F.; Ferraz, J. B. S. **Genetic Parameters and Genome Wide Association Study (GWAS) for maternal related traits in Santa Ines Sheep breed.** In: World Congress

## CONFERENCE ABSTRACTS

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11. Bi, Y.; Kadlec, R.; Castro, K.; Indest, S.; **Amorim, S. T.**; Morota, G. **Development of Automated Computer Vision Systems for Evaluating Dairy cow Body Weight and Body Condition Scores.** In: The American Society of Animal Science. Journal of Animal Science, Volume 100, Issue Supplement<sub>3</sub>, 2022.
10. Leite, A. A.; **Amorim, S. T.**; Rosa, V. L.; Lemes, M.; Francisco, L.; Hauptli, L.; Irgang, R.; Lima, A. L. F. **Exon IV Polymorphism Of Prolactin Gene On Crioulo Lageano Cattle.** In: 54<sup>a</sup> Reunião Anual Da SBZ, 2017, Foz Do Iguaçu. A New View Of Animal Science: Challenges And Perspectives, 2017.
9. **Amorim, S. T.**; Leite, A. A.; Lemes, M.; Francisco, L.; Chiarelli, A. C.; Pereira, M. C.; Dalhke, F.; Lima, A. L. F. **Genetic Monomorphism Of Insulin-Like Growth Hormone On Crioulo Lageano Cattle (Bos taurus).** In: 54<sup>a</sup> Reunião Anual Da SBZ, 2017, Foz Do Iguaçu. A New View Of Animal Science: Challenges And Perspectives, 2017.
8. Rosa, V. L.; **Amorim, S. T.**; Chiarelli, A. C.; Leite, A. A.; Carvalho, S. R. S. T.; Quadros, S. A. F.; Oliveira, P.P.; Lima, A. L. F. **Identification Of Polymorphisms On The IGF-I Gene In Crioulo Lageano Cattle (Bos taurus).** In: 54<sup>a</sup> Reunião Anual Da SBZ, 2017, Foz Do Iguaçu. A New View Of Animal Science: Challenges And Perspectives, 2017.
7. Dalhke, F.; Dahmer, A. P.; Oliveira, P.P.; **Amorim, S. T.**; Hauptli, L.; Lima, A. L. F. **Evaluation Of The Influence Of Astaxanthin Inclusion In Feed For Quails (Coturnix coturnix japonica) On Performance And Egg Quality Traits.** In: 54<sup>a</sup> Reunião Anual Da SBZ, 2017, Foz Do Iguaçu. A, 2017.
6. Oliveira, R. N.; Machado, Djonatan; Pereira, M. C.; Correa Junior, A. C.; **Amorim, S. T.**; Carvalho, S. R. S. T.; Quadros, S. A. F.; Lima, A. L. F. **Association Between Productive Performance And Gastrointestinal Nematodes Infection In Ile De France Lambs.** In: 54<sup>a</sup> Reunião Anual Da SBZ, 2017, Foz Do Iguaçu. A New View Of Animal Science: Challenges And Perspectives, 2017.
5. Wagner, B.; **Amorim, S. T.**; Pereira, T. C.; Irgang, R.; Lima, A. L. F.; Pereira, M. C.; Quadros, S. A. F.; Carvalho, S. R. S. T. **Beef Consumers Preferences: An Approach On The Cities Of Florianópolis And Botucatu.** In: 54<sup>a</sup> Reunião Anual Da SBZ, 2017, Foz Do Iguaçu. A New View Of Animal Science: Challenges And Perspectives, 2017.
4. Xavier, A. C.; Machado, Djonatan; **Amorim, S. T.**; Tavares, S.; Irgang, R.; Hauptli, L. **Efficiency Of The Questionnaire Application Classic Swine Fever Situation In Terms Of Risks By Municipality In Santa Catarina.** In: 54<sup>a</sup> Reunião Anual Da SBZ, 2017, Foz Do Iguaçu. A New View Of Animal Science: Challenges And Perspectives, 2017.
3. **Amorim, S. T.**; Lima, A. L. F.; Lemes, M.; Irgang, R.; Pereira, M. C.; Chiarelli, A. C. **Efficiency in feed conversion in Pigs: Association of favorable alleles with nutritional modeling.** In: Initiation to Scientific Research Seminar, Florianópolis, 2017.
2. Machado, Djonatan; Mallmann, D. H.; Erpen, J.G.; **Amorim, S. T.**; Selig, P.M.; Marian, P.; Oliveira, P.P.; Hosrtmann, R. **Knowledge Intensive Livestock: Knowledge Management Maturity Model Applied On Dairy Farming In Santa Catarina.** In: 54<sup>a</sup> Reunião Anual Da SBZ, 2017, Foz Do Iguaçu. A New View Of Animal Science: Challenges And Perspectives, 2017.

1. **Amorim, S. T.**; Lima, A. L. F.; Bento, L. L.; Leite, A. A.; Pereira, T. C.; Pacheco, L.; Pereira, M. C.; Irgang, R. **Isolation and Application of RFLP-PCR on ghrelin gene of Swine**, In: Initiation to Scientific Research Seminar, Florianópolis, 2017.

## ORAL PRESENTATIONS

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7. **Amorim, S. T. Implementation of Medical Subject Headings (MeSH) analysis in farm animals.** Animal Sciences Seminar. Blacksburg, VA, USA, 2022.
6. **Amorim, S. T. Collaborative Innovation.** CAIA Big Event. Blacksburg, VA, USA, 2022.
5. **Amorim, S. T. The Faces of Animal Sciences.** I SEMAZOOT Online. Florianópolis, Brazil. 2020.
4. **Amorim, S. T. Genomic connectedness in Nellore beef cattle.** NCERA-225 Meeting for Implementation and Strategies for National Beef Cattle Genetic Evaluation. Blacksburg, VA, USA. 2019.
3. **Amorim, S. T.**; Eler, J. P.; Grigoletto, L.; Lemos, M. V. A.; Baldi, F.; Ferraz, J. B. S. **Genome Wide Association Study (GWAS) For Body Weight Traits In Santa Ines Sheep Breed.** World Congress on Genetics Applied to Livestock Production. Auckland, New Zealand. 2018.
2. **Amorim, S. T.**; Lima, A. L. F.; Lemes, M.; Irgang, R.; Pereira, M. C.; Chiarelli, A. C. **Efficiency in feed conversion in pigs: Association of favorable alleles with nutritional modeling.** Scientific Initiation Seminar. Florianópolis, Brazil. 2017.
1. **Amorim, S. T.**; **Genetic Monomorphism Of Insulin-Like Growth Hormone On Crioulo Lageano Cattle (Bos taurus).** Scientific Initiation Seminar. Florianópolis, Brazil. 2017.

## TEACHING EXPERIENCE

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<b>Primary Instructor</b> , Virginia Tech, USA.	<i>2024-2024</i>
<b>Graduate Teaching Assistant</b> , Virginia Tech, USA.	<i>2021-2024</i>
<b>Lead Instructor</b> , Faculdades Associadas de Uberaba, FAZU, Brazil.	<i>2022- 2022</i>
<b>Lead Instructor</b> , Faculdades Associadas de Uberaba, FAZU, Brazil.	<i>2021- 2021</i>
<b>Lead Instructor</b> , Faculdades Associadas de Uberaba, FAZU, Brazil.	<i>2021- 2021</i>
<b>Lead Instructor</b> , Faculdades Associadas de Uberaba, FAZU, Brazil.	<i>2020- 2020</i>
<b>Graduate Teaching Assistant</b> , Universidade Estadual Paulista, UNESP, Brazil.	<i>2018-2020</i>
<b>Teaching Assistant</b> , Universidade Federal de Santa Catarina, UFSC, Brazil.	<i>2015-2016</i>
<b>Teacher</b> , Khan Academy Brasil Project, Brazil.	<i>2015-2018</i>

## GUEST LECTURES

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2. ALS3104 - Animal Breeding and Genetics. **Mating Systems (7 lectures).** Virginia Polytechnic Institute and State University, Blacksburg, VA, USA, September, 2023.
1. DASC4475/4476 - Dairy Enterprise Management. **Principles of Genomic Evaluation.** Virginia Polytechnic Institute and State University, Blacksburg, VA, USA, September, 2022.

## AWARDS AND RECOGNITION

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7. **Graduate Student Teaching Award.** NACTA, USA, 2024.
6. **CAIA Big Event Poster Award.** CAIA, Virginia Tech, USA, 2024.
5. **CAIA Graduate Travel Award.** CAIA, Virginia Tech, USA, 2024.
4. **Dwight Williams Scholarship Award.** Genus/ABS, USA, 2023.
3. **Reviewer Recognition.** Journal of Animal Science, USA, 2023.
2. **Modern Programming in Genome to Phenome Course Scholarship.** University of California (Davis), USA, 2022.
1. **Young Scientist Registration Scholarship.** World Congress on Genetics Applied to Livestock Production, Auckland, New Zealand, 2018.

## EDITORIAL EXPERIENCE

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4. BMC Genomics. Number of manuscripts reviewed: 1.
3. Mammalian Genome. Number of manuscripts reviewed: 1.
2. Journal of Animal Science. Number of manuscripts reviewed: 3.
1. Archives Animal Breeding. Number of manuscripts reviewed: 1.

## PARTICIPATION IN EVENTS

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32. Advances in Genome Biology and Technology (AGBT). Phoenix, AZ, USA, 2024.
31. CAIA Big Event. Blacksburg, VA, USA, 2024.
30. Conference on Higher Education Pedagogy<sup>TM</sup>. Blacksburg, VA, USA, 2024.
29. Virginia Tech CALS Career Fair (Representing Genus/ABS Global). Blacksburg, VA, USA, 2023.
28. Wisconsin State FFA Convention. Madison, WI, USA, 2023.
27. Industrial and Systems Engineering Symposium. Blacksburg, VA, USA, 2023.
26. Conference on Higher Education Pedagogy<sup>TM</sup>. Blacksburg, VA, USA, 2023.
25. Industrial and Systems Engineering Symposium. Blacksburg, VA, USA, 2022.
24. Empowering Farmers with Affordable Digital Agricultural Solutions. Blacksburg, VA, USA, 2021.
23. I Virtual Meeting on Innovations in Animal Production. Online Meeting. 2020.
22. II Symposium on Conservation and Sustainable Management of Domestic Breeds in Danger. Online Meeting. 2020.
21. I COICTA - International Online Congress of Food Science and Technology - Food Security: Strategies in the Pandemic Period. Online Meeting. 2020.
20. NCERA-225 Meeting for Implementation and Strategies for National Beef Cattle Genetic Evaluation. Christiansburg, VA, USA. 2019.
19. World Congress on Genetics Applied to Livestock Production. Auckland, New Zealand. 2018.

18. 54th Annual Meeting of the Brazilian Society of Animal Science. Foz do Iguaçu, Brazil. 2017.
17. Ambient and Thermal Comfort in Pigs. Florianópolis, Brazil. 2017.
16. Evaluation of Carcass and Quality of Sheep meat. Florianópolis, Brazil. 2017.
15. Brucellosis and Bovine Tuberculosis. Florianópolis, Brazil. 2017.
14. Linear classification for types in Cattle. Florianópolis, Brazil. 2017.
13. Productive efficiency in Beef Cattle for meat quality. Florianópolis, Brazil. 2017.
12. Avian physiology, intestinal microbiot and its effects on the physiology of birds. Florianópolis, Brazil. 2017.
11. Handling of Otters in Captivity. Florianópolis, Brazil. 2017.
10. Meat Inspection and Quality. Florianópolis, Brazil. 2017.
9. Short Course: Ice Cream Production. Florianópolis, Brazil. 2017.
8. Nutrition and Disease Control in PET. Florianópolis, Brazil. 2017.
7. Sheep Farming: From the field to the plate. Florianópolis, Brazil. 2017.
6. A Tour in the World of Pork Meat. Florianópolis, Brazil. 2017.
5. The use of Genomics to improve Animal Performance. Florianópolis, Brazil. 2017.
4. Workshop: Quality Brands in Meats - Red Cytel Marcarne. Foz do Iguaçu, Brazil. 2017.
3. XXVI Brazilian Congress of Animal Science. Santa Maria, Brazil. 2016.
2. Zebu Cattle Breed Characteristics. Florianópolis, Brazil. 2015.
1. Scientific Initiation Seminar. Florianópolis, Brazil. 2015.

## EVENTS ORGANIZATION

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4. **Amorim, S. T.**; Smilnak, D.; Muller, R.; Emery, B. **CAIA Big Event**. Blacksburg, Virginia. 2023. (Seminar).
3. **Amorim, S. T.**; Smilnak, D.; Muller, R.; White, R. **Fact-sheet Writing Workshop**. Blacksburg, Virginia. 2022. (Workshop).
2. **Amorim, S. T.**; Pereira, T. C.; Lima, A. L. F.; Leite, A. A. **I-SIAZ Semana Acadêmica Integrada de Agronomia e Zootecnia**. Florianópolis, Brazil. 2015. (Seminar).
1. **Amorim, S. T.**, et al. **XI Congresso Internacional da APCG**. Florianópolis, Brazil. 2013. (Congress).

## STUDENT ORGANIZATION

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3. **Center for Advanced Innovation in Agriculture (CAIA-GSA)**. Event Coordinator. Virginia Tech, USA. 2023-2024.
2. **Center for Advanced Innovation in Agriculture (CAIA-GSA)**. Secretary. Virginia Tech, USA. 2021-2022.
1. **Center for Advanced Innovation in Agriculture (CAIA-GSA)**. Treasurer. Virginia Tech, USA. 2020-2021.

## COMPLEMENTARY EDUCATION

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**Engaging All Learners with Formative Assessment Tools**, Virginia Tech.  
2023-2023.

**Modern Programming in Genome to Phenome**, University of California-Davis.  
2022-2022.

**Programming and computer algorithms in animal breeding with a focus on single-step GBLUP and genomic selection in practice**, University of Georgia.  
2022-2022.

**Basic Responsible Conduct of Research Course**, CITI Program.  
2021-2021.

**Understanding and Visualizing Data with Python**, University of Michigan.  
2021-2021.

**Python for Everybody Specialization**, University of Michigan.  
2020-2021.

**University Extension in Research Methods: Introductory Concepts**, Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul.  
2021. Credit Hours: 30h

**University Extension in Knowledge Discovery in Databases: Fundamentals**, Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul.  
2021. Credit Hours: 20h

**University Extension in Agriculture and Sustainable Rural Development**, Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul.  
2021. Credit Hours: 40h

**Python for Genomic Data Science**, Johns Hopkins University.  
2020.

**Introduction to Genomic Technologies**, Johns Hopkins University.  
2020.

**University Extension in Biology**, Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul.  
2020. Credit Hours: 40h

**University Extension in Statistics: Concepts and Representations**, Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul.  
2020. Credit Hours: 20h

**University Extension in Statistics: Measures of Position and Dispersion**, Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul.  
2020. Credit Hours: 20h



**University Extension in Databases: Fundamentals**, Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul.

2020. Credit Hours: 20h

**University Extension in Environmental Education**, Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul.

2020. Credit Hours: 40h

**University Extension in Hygiene and Food Quality Control**, Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul.

2020. Credit Hours: 50h

**GWAS Workshop**, Virginia Polytechnic Institute and State University.

2019. Credit Hours: 30h

**Special Topics in Bioinformatics: Genome Alignment**, Universidade Estadual Paulista.

2019. Credit Hours: 30h

**Quantitative Genetics and Genomics Workshop**, Universidade de São Paulo (ESALQ).

2018. Credit Hours: 30h

**Special Topics in Genome Sequencing for Genomic Studies**, Universidade Estadual Paulista.

2018. Credit Hours: 20h

**Special Topics in R applied to Animal Breeding**, Universidade Estadual Paulista.

2017. Credit Hours: 66h

**Management and Use of Poultry and Mammals in Research**, Universidade Federal de Santa Catarina.

2017. Credit Hours: 17h

## REFERENCES

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**1. Prof. Dr. Gota Morota**

Associate Professor, Virginia Polytechnic Institute and State University, USA.

Email: morota@vt.edu.

**2. Prof. Dr. Fernando Baldi Rey**

Associate Professor, Universidade Estadual Paulista (UNESP), Brazil.

Email: fernandobaldiuy@gmail.com.

**3. Dr. Johnna Baller-Granville**

Beef Genetic Development Manager, Genus/ABS, USA.

Email: johnna.Baller@genusplc.com.