Curriculum Vitae

Daniela A. L. Lourenco

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Education

2009 - 2011	Ph.D. Animal Breeding and Genetics, Maringa State University, Brazil. (With a period of 9 months at The University of Georgia)
2004 - 2006	M.S. Animal Breeding and Genetics, Maringa State University, Brazil.
2000 - 2004	B.S. Biological Sciences, Maringa State University, Brazil.

Academic Positions Held

2012 - 2015	Postdoctoral Research Scientist, University of Georgia, Athens
2015 -	Assistant Professor, University of Georgia, Athens

Qualifications

- Over 10 years of research experience in livestock genetics in the USA.
- Over 10 years of advising (co-advising) experience of undergraduate, Masters, and PhD students.
- Author (co-author) of more than 350 scientific journal/technical articles, book chapters, and proceedings.
- Highly active in all projects developed by the animal breeding group at University of Georgia since 2012, with strong ability of solving problems and making decisions.
- Applicant and Co-applicant for research projects with budgets up to $500,000.
- Strong leadership ability and team working, contributing with researchers in dairy, beef, poultry, swine, fish, and honey bee breeding; collaborator of many universities in Brazil.
- Successfully organized short courses and meetings for national and international scientific community.
- Research fields include best strategies for genomic selection in small and large populations, and development of methodologies for evaluations on large-scale genotyped populations as beef and dairy cattle.

Research Interests

Methods for genetic and genomic evaluation in livestock animals, Programming in animal breeding.

Citation

Lourenco, D.A.L.
Lourenco, D.

Lino-Lourenco, D.A.
Lino, D.A.
Refereed Publications

Contribution made as Assistant Professor; ** indicates projects lead or co-lead by the Lourenco Laboratory

1. Bermann, M., **D. Lourenco****, and I. Misztal. 2021. Estimation of reliabilities for single-step genomic BLUP models with the Algorithm for Proven and Young. J. Anim. Sci. skab353. https://doi.org/10.1093/jas/skab353

2. Abdollahi-Arpanahi, R., **D. Lourenco****, A. Legarra, and I. Misztal. 2021. Dissecting the genetic trends to understand the breeding practices in livestock: A maternal pig line example. Genet. Sel. Evol. 53:89. https://doi.org/10.1186/s12711-021-00683-6

3. Masuda, Y., P. VanRaden, S. Tsuruta, **D. Lourenco**, and I. Misztal. 2021. Invited review: Unknown-parent groups and metafounders in single-step genomic BLUP. J. Dairy Sci. https://doi.org/10.3168/jds.2021-20293

4. Tsuruta, S., **D.A.L. Lourenco****, Y. Masuda, I. Mistal, and T.J. Lawlor. 2021. Reducing computational cost by indirect genomic prediction in large-scale genomic evaluation. J. Dairy Sci. Comm. https://doi.org/10.3168/jdsc.2021-0097

5. Kluska, S., Y. Masuda, F. Baldi, J.P. Eler, J.B.S. Ferraz, A. Legarra, and **D. Lourenco****. 2021. Metafounders may be able to reduce bias in composite cattle genomic predictions. Front. In Genet. 12:678587. https://doi.org/10.3389/fgene.2021.678587

6. Abdollahi-Arpanahi, R., **D. Lourenco****, and I. Misztal. 2021. Detecting effective starting point of genomic selection by divergent trends from BLUP and ssGBLUP in pigs, beef cattle, and broilers. J. Anim. Sci. skab243. https://doi.org/10.1093/jas/skab243

7. Hidalgo, J., **D. Lourenco****, S. Tsuruta, Y. Masuda, V. Breen, R. Hawken, M. Bermann, and I. Misztal. 2021. Investigating the persistence of accuracy of genomic predictions over time in broilers. J. Anim. Sci. https://doi.org/10.1093/jas/skab239

8. Hollifield, M.K., **D. Lourenco****, S. Tsuruta, M. Bermann, J.T. Howard, I. Misztal. 2021. Impact of including the cause of missing records on genetic evaluations for growth in commercial pigs. J. Anim. Sci. skab226. https://doi.org/10.1093/jas/skab226

9. Shook, J.M., **D. Lourenco**, A.K. Singh. 2021. PATRIOT: A pipeline for tracing identical-by-descent chromosome segments to improve genomic prediction in self-pollinating crop species. Front. Plant Sci. 12:676269. https://doi.org/10.3389/fpls.2021.676269

10. Araujo, A.C., P.L.S. Carneiro, H.R. Oliveira, F.S. Schenkel, R. Veroneze, **D.A.L. Lourenco** and L.F. Brito. 2021. A comprehensive comparison of haplotype-based single-step genomic predictions in livestock populations with different genetic diversity levels: a simulation study. Front. Genet. 12:729867. https://doi.org/10.3389/fgene.2021.729867

11. Tonusi, R.L., M. Londono-Gil, R.M.O. Silva, A.F.B. Magalhaes, S.T. Amorin, S. Kluska, R. Espigolan, E. Peripoli, A.S.C. Pereira, R.B. Lobo, I. Aguilar, **D.A.L. Lourenco**, F. Baldi. 2021. 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. Trop Anim Health Prod. 53:432. https://doi.org/10.1007/s11250-021-02879-w

12. Leite, N.G., E.F. Knol, A.L.S. Garcia, M.S. Lopes, L. Zak, S. Tsuruta, F.F. Silva, **D. Lourenco****. 2021. Investigating pig survival in different production phases using genomic models. J. Anim. Sci. skab217. https://doi.org/10.1093/jas/skab217

13. Falchi, L., G. Gaspa, A. Cesarani, F. Correddu, L. Degano, D. Vicario, **D. Lourenco**, and N.P.P. Macciotta. 2021. Investigation of β-hydroxybutyrate in early lactation of Simmental cows: genetic parameters and genomic predictions. J. Anim. Breed. Genet. https://doi.org/10.1111/jbg.12637

14. Mancin, E., **D. Lourenco****, M. Bermann, R. Mantovani, and I. Misztal. 2021. Accounting for population structure and phenotypes from relatives in association mapping. Front. Genet. 12:642065. https://doi.org/10.3389/fgene.2021.642065

15. Cesarani, A., S. Biffani, A.L.S. Garcia, **D. Lourenco**, G. Bertolini, G. Neglia, I. Misztal, and N.P.P. Macciotta. 2021. Genomic investigation of milk production in Italian Buffalo. Italian J. Anim. Sci. 20:539-547. https://doi.org/10.1080/1828051X.2021.1902404

16. Misztal, I., I. Aguilar, **D. Lourenco**, L. Ma, J.P. Steibel, and M. Toro. 2021. Emerging issues in genomic selection. J. Anim. Sci. 99:skab092. https://doi.org/10.1093/jas/skab092

17. Hollifield, M.K., **D. Lourenco****, M. Bermann, J. Howard, Y. Huang, and I. Misztal. 2021. Determining stability of accuracy of genomic estimated breeding values in future generations in commercial pig populations. J. Anim. Sci. 99:skab085. https://doi.org/10.1093/jas/skab085

18. Cesarani, A., Y. Masuda, S. Tsuruta, E.L. Nicolazzi, P.M. VanRaden, **D. Lourenco****, and I. Misztal. 2021. Single-step genomic predictions for production traits in US Holsteins with unknown parent groups. J. Dairy Sci. 104:5843-5853. https://doi.org/10.3168/jds.2020-19789

19. Steyn, Y., D. Gonzalez-Pena, N. Vukasinovic, S.K. DeNise, **D. Lourenco****, and I. Misztal. 2021. Indirect genomic predictions for milk yield in crossbred dairy cattle. J. Dairy Sci. 104:5728-5737. https://doi.org/10.3168/jds.2020-19451

20. Bermann, M., **D. Lourenco****, V. Breen, R. Hawken, A. Legarra, and I. Misztal. 2021. Modeling genetic differences of combined broiler chicken populations in single-step GBLUP. J. Anim. Sci. 99:skab056. https://doi.org/10.1093/jas/skab056

21. Cesarani, A., A. Garcia, J. Hidalgo, L. Degano, D. Vicario, N.P.P. Macciotta, and **D. Lourenco****. 2021. Genomic information allows for more accurate breeding values for milkability in dual-purpose Italian Simmental cattle. J. Dairy Sci. 104: 5719-5727. https://doi.org/10.3168/jds.2020-19838

22. Hidalgo, J., **D. Lourenco****, S. Tsuruta, Y. Masuda, S. Miller, M. Bermann, and I. Misztal. 2021. Changes in genomic predictions when new information is added. J. Anim. Sci. 99: skab04. https://doi.org/10.1093/jas/skab004

23. Steyn, Y., **D. Lourenco****, C.Y. Chen, B. Valente, J. Holl, W.O. Herring, and I. Misztal. 2021. Optimal definition of contemporary groups for crossbred pigs in a joint pure- and crossbred genetic evaluation. J. Anim. Sci. 99:skaa396. https://doi.org/10.1093/jas/skaa396

24. Al-Tobasei, R., A. Ali, A.L.S. Garcia, **D. Lourenco**, T. Leeds, and M. Salem. 2021. Genomic predictions for fillet yield and firmness in rainbow trout using reduced-density SNP panels. BMC Genomics. 22:92. https://doi.org/10.1186/s12864-021-07404-9

25. Bermann, M., **D. Lourenco****, and I. Misztal. 2021. Technical note: Automatic scaling in single-step GBLUP. J. Dairy Sci. 104:2027-2031. https://doi.org/10.3168/jds.2020-18969

26. Tsuruta, S., T.J. Lawlor, **D.A.L. Lourenco****, and I. Misztal. 2021. Bias in genomic predictions by mating practices for linear type traits in a large-scale genomic evaluation. J. Dairy Sci. 104:662-677. https://doi.org/10.3168/jds.2020-18668

27. Bermann, M., A. Legarra, Y. Masuda, **D.A.L. Lourenco****, I. Misztal. 2021. Validation of single-step GBLUP genomic predictions from threshold models using the linear regression (LR) method: an application in chicken mortality. J. Anim. Breed. Genet. 138:4-13. https://doi.org/10.1111/jbg.12507

28. Junqueira, V.S., P.S. Lopes, **D. Lourenco**, F. F. Silva, and F.F. Cardoso. 2020. Applying the metafounders approach for genomic evaluation in a multibreed beef cattle population. Front. Genet. 11:556399. https://doi.org/10.3389/fgene.2020.556399

29. Misztal, I., S. Tsuruta, I. Pocrnic, **D.A.L. Lourenco****. 2020. Core-dependent changes in genomic predictions using the algorithm for proven and young in single-step GBLUP. J. Anim. Sci. 98:skaa374. https://doi.org/10.1093/jas/skaa374

30. McWhorter, T.M., J.L. Hutchison, H.D. Norman, J.B. Cole, G.C. Fok, **D.A.L. Lourenco****, P.M. VanRaden. 2020. Investigating conception rate for beef service sires bred to dairy cows and heifers. J. Dairy Sci. 103:10374-10382. https://doi.org/10.3168/jds.2020-18399

31. Cesarani, A., J. Hidalgo, A. Garcia, L. Degano, D. Vicario, Y. Masuda, I. Misztal, **D. Lourenco****. 2020. Beef trait genetic parameters based on old and recent data and its implications for genomic predictions in Italian Simmental cattle. J. Anim. Sci. 98:1-8. https://doi.org/10.1093/jas/skaa242

32. Gualdron Duarte, J.L., A.S. Gori, X. Hubin, **D. Lourenco**, C. Charlier, I. Misztal, and T. Druet. 2020. Performances of Adaptive MultiBLUP, Bayesian regressions, and weighted GBLUP approaches for genomic predictions in Belgian Blue Beef cattle. BMC Genomics 21:545. https://doi.org/10.1186/s12864-020-06921-3

33. Ali A., R. Al-Tobasei, **D. Lourenco**, T.D. Leeds, B. Kenney, and M. Salem. 2020. Genome-wide scan for common variants associated with intramuscular fat and moisture content in rainbow trout. BMC Genomics. 21:529. https://doi.org/10.1186/s12864-020-06932-0

34. **Lourenco, D.****, A. Legarra, S. Tsuruta, Y. Masuda, I. Aguilar, and I. Misztal. 2020. Single-Step Genomic Evaluations from Theory to Practice: Using SNP Chips and Sequence Data in BLUPF90. Genes 11:790. https://doi.org/10.3390/genes11070790

35. Garcia, A.L.S., Y. Masuda, S. Tsuruta, S. Miller, I. Misztal, and **D. Lourenco****. 2020. Indirect predictions with a large number of genotyped animals using the algorithm for proven and young. J. Anim. Sci. 98:1-9. https://doi.org/10.1093/jas/skaa154

36. Misztal, I., **D. Lourenco****, and A. Legarra. 2020. Current status of genomic evaluation. J. Anim. Sci. 98:skaa101. https://doi.org/10.1093/jas/skaa101

37. Cesarani, A., G. Gaspa, Y. Masuda, L. Degano, D. Vicario, **D.A.L. Lourenco**, N.P.P. Macciotta. 2020. Genomic analysis of two functional traits in Italian Simmental cattle: calving interval and lactation persistency. *J. Dairy Sci.* 103:5227-5233. https://doi.org/10.3168/jds.2019-17421

38. Bosworth, B., G. Waldbieser, A. Garcia, S. Tsuruta, and **D.A.L. Lourenco****. 2020. Heritability and response to selection for carcass yield and growth in the Delta Select strain of channel catfish, Ictalurus punctatus. Aquaculture. 515:734507. https://doi.org/10.1016/j.aquaculture.2019.734507

39. Hidalgo J., S. Tsuruta, **D. Lourenco**, Y. Masuda, Y. Huang, K. A. Gray, and I. Misztal. 2020. Changes in genetic parameters for fitness and growth traits in pigs under genomic selection. J. Anim. Sci. 98:skaa032. https://doi.org/10.1093/jas/skaa032

40. Ali A., R. Al-Tobasei, **D. Lourenco**, T.D. Leeds, B. Kenney, and M. Salem. 2020. Genome-wide association study identifies genomic loci affecting growth in rainbow trout. BMC Genomics 21:209. https://doi.org/10.1186/s12864-020-6617-x

41. Garcia-Baccino C., **D. Lourenco**, S. Miller, R. J.C. Cantet., Z. G. Vitezica. 2020. Estimating dominance genetic variances for growth traits in American Angus cattle using genomic models. J. Anim. Sci. 98:skz384. https://doi.org/10.1093/jas/skz384

42. Bosworth, B., G. Waldbieser, A. Garcia, and **D.A.L. Lourenco****. 2020. Effect of pond- or strip-spawning on growth and carcass yield of channel catfish progeny. Journal of the World Aquaculture Society. 51:407-417. https://doi.org/10.1111/jwas.12659

43. Miglior, F., C.F. Baes, **D. Lourenco**, F. Penagaricano, and B. Heins. 2020. Introduction: ADSA and Interbull joint breeding and Genetics symposium. J. Dairy Sci. 103:5275-5277. https://doi.org/10.3168/jds.2020-18666

44. Orlandelli, R.C., T.T. Almeida, D.A.L. Lourenco, A.F.D Vasconcelos, M.L. Corradi da Silva, J.L. Azevedo, J.A. Pamphile. 2020. Toxicity of β-(1→3,1→6)-ᴅ-glucans produced by Diaporthe sp. endophytes on Metarhiziumanisopliae (metschnikoff) sorokin assessed by conidia germination speed parameter. Bioscience Journal. 36:1742-1749. http://dx.doi.org/10.14393/BJ-v36n5a2020-47749

45. Cesarani, A., I. Pocrnic, N. Macciotta, I. Misztal, and **D.A.L. Lourenco****. 2019. Bias in heritability estimates from genomic restricted maximum likelihood (GREML) methods under different genotyping strategies. J. Anim. Breed. Genet. 136:40-50. https://doi.org/10.1111/jbg.12367

46. Oliveira, H.R., L.F. Brito, F.F. Silva, **D.A.L. Lourenco**, J. Jamrozik, and F.S. Schenkel. 2019. Genomic prediction of lactation curves for milk, fat, protein and somatic cell score in Holstein cattle. J. Dairy Sci. 102:452-463. https://doi.org/10.3168/jds.2018-15159

47. Fragomeni, B.O., Y. Masuda, H.L. Bradford, **D.A.L. Lourenco****, and I. Misztal. 2019. International bull evaluations by GBLUP with a prediction population. J. Dairy Sci. 102:2330-2335. https://doi.org/10.3168/jds.2018-15554

48. Oliveira, H.R., **D.A.L. Lourenco****, Y. Masuda, I. Misztal, S. Tsuruta, J. Jamrozik, L.F. Brito, F.F. Silva, and F.S. Schenkel. 2019. Application of single-step genomic evaluation using multiple-trait random regression models in dairy cattle. J. Dairy Sci. 102:2365-2377. https://doi.org/10.3168/jds.2018-15466

49. Pocrnic, I., **D.A.L. Lourenco****, C.Y. Chen, W.O. Herring, and I. Misztal. 2019. Crossbred evaluations using single-step genomic BLUP and algorithm for proven and young with different sources of data. J. Anim. Sci.97:1513-1522. https://doi.org/10.1093/jas/skz042

50. Guarini, A.R., **D.A.L. Lourenco****, L.F. Brito, M. Sargolzaei, C. Baes, F. Miglior, S. Tsuruta, I. Misztal, and F. Schenkel. 2019. Genetics and genomics of reproductive disorders in Holstein cattle. J. Dairy Sci. 102:1341-1353. https://doi.org/10.3168/jds.2018-15038

51. Raulino-Domanski, F., M. Potrich, P. F. Freitas, F. C. Abdalla, E. N. Martins, **D. A. L. Lourenco**, F. M. Costa-Maia. 2019. Short Communication: Optimized histological preparation of ovary for ovariole counting in Africanized honey bee queens (Hymenoptera: Apidae). J. Insect Sci. 19:12. https://doi.org/10.1093/jisesa/iez013

52. Silva, R.M.O, J.P. Evenhuis, R. Vallejo, S. Tsuruta, G. Wiens, K. Martin, J.E. Parsons, Y. Palti, **D.A.L. Lourenco****, and T.D. Leeds. 2019. Variance and covariance estimates for resistance to bacterial cold water disease and columnaris disease in two rainbow trout breeding populations. J. Anim. Sci. 97:1124-1132. https://doi.org/10.1093/jas/sky478

53. Guarini, A.R., M. Sargolzaei, L.F. Brito, V. Kroezen, **D.A.L. Lourenco**, C.F. Baes, F. Miglior, J.B. Cole, and F.S. Schenkel. 2019. Estimating the impact of the deleterious recessive haplotypes AH1 and AH2 on reproduction performance of Ayrshire cattle. J. Dairy Sci. https://doi.org/10.3168/jds.2018-15366

54. Stafuzza, N.B., R.M.O. Silva, B.O. Fragomeni, Y. Masuda, Y. Huang, K. Gray, and **D.A.L. Lourenco****. 2019. A genome-wide single nucleotide polymorphism and copy number variation analysis for number of piglets born alive. BMC Genomics 20:321. https://doi.org/10.1186/s12864-019-5687-0

55. Ali A., R. Al-Tobasei, **D. Lourenco**, T.D. Leeds, B. Kenney, and M. Salem. 2019. Genome-wide association study identifies genomic loci affecting fillet firmness and protein content in rainbow trout. Front. Genet. 10:386. https://doi.org/10.3389/fgene.2019.00386

56. Oliveira, H.R., L.F. Brito, F.F. Silva, **D.A.L. Lourenco**, J. Jamrozik, and F.S. Schenkel. 2019. Accessing the impact of including information from bulls and their daughters in the training population of a multiple-step genomic evaluation. J. Anim. Breed. Genet. https://doi.org/10.1111/jbg.12407

57. Aguilar, I., A. Legarra, F. Cardoso, Y. Masuda, **D. Lourenco**, I. Misztal. 2019. Frequentist p-values for large-scale single step genome-wide association, with an application for birth weight in American Angus. Genet. Sel. Evol. 51:28. https://doi.org/10.1186/s12711-019-0469-3

58. Maiorano, A.M., A. Assen, P. Bijma, C.Y. Chen, J.A. II V. Silva, W.O. Herring, S. Tsuruta, I. Misztal, and **D.A.L. Lourenco****. 2019. Improving accuracy of direct and maternal genetic effects in genomic evaluations using pooled boar semen: a simulation study. J. Anim. Sci. 97:3237-3245. https://doi.org/10.1093/jas/skz207

59. Oliveira, H.R., L.F. Brito, **D.A.L. Lourenco**, F.F. Silva, J. Jamrozik, L.R. Schaeffer, and F.S. Schenkel. 2019. Invited review: Random regression models in the genomic era. J. Dairy Sci. 102:7664-7683. https://doi.org/10.3168/jds.2019-16265

60. Guarini, A.R., **D.A.L. Lourenco****, L.F. Brito, M. Sargolzaei, C. Baes, F. Miglior, S. Tsuruta, I. Misztal, and F. Schenkel. 2019. Use of a single-step approach for integrating foreign information into national genomic evaluation in Holstein cattle. J. Dairy Sci. 102:8175-8183. https://doi.org/10.3168/jds.2018-15819

61. Oliveira, H.R., J.P. Cant, L.F. Brito, P.A.S. Fonseca, J. Jamrozik, F.F. Silva, **D.A.L. Lourenco**, F.S. Schenkel. 2019. Genome-wide association for milk production traits and somatic cell score in different lactation stages of Ayrshire, Holstein and Jersey dairy cattle. J. Dairy Sci. 102:8159-8174. https://doi.org/10.3168/jds.2019-16451

62. Silva R.M.O., Vallejo R., Evenhuis J.P., Leeds T.D., Gao G., Parsons J.E., Martin K.E., Yniv P., and **Lourenco D.A.L.**** 2019. Whole-Genome Mapping of Quantitative trait loci and Accuracy of Genomic Predictions for Columnaris Disease Resistance in Two Rainbow Trout Breeding Populations. Genet. Sel. Evol. 51:42. https://doi.org/10.1186/s12711-019-0484-4

63. Tsuruta, S., **D.A.L. Lourenco**, Y. Masuda, I. Misztal, T.J. Lawlor. 2019. Controlling bias in genomic evaluations for young genotyped bulls. J. Dairy Sci. 102:9956-9970. https://doi.org/10.3168/jds.2019-16789

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65. Oliveira, H.R., **D.A.L. Lourenco****, Y. Masuda, I. Misztal, S. Tsuruta, J. Jamrozik, L.F. Brito, F.F. Silva, J. P. Cant, and F. S. Schenkel. 2019. Single-step genome-wide association and

functional analysis for longitudinal traits of Ayrshire, Holstein and Jersey dairy cattle. J. Dairy Sci. 102:9995-10015. https://doi.org/10.3168/jds.2019-16821

66. Steyn, Y., **D.A.L. Lourenco****, and I. Misztal. 2019. Genomic predictions in purebreds with a multibreed genomic relationship matrix. J. Anim. Sci. 97:4418-4427. https://doi.org/10.1093/jas/skz296

67. Andonov, S., C. Costa, A. Uzonov, P. Bergomoni, **D. Lourenco****, and I. Misztal. 2019. Modeling honey yield and defensive and swarming behaviors of Italian honey bees (Apis mellifera ligustica) using linear-threshold approaches. BMC Genetics 20:78. https://doi.org/10.1186/s12863-019-0776-2

68. Pocrnic, I., **D.A.L. Lourenco****, Y. Masuda, and I. Misztal. 2019. Accuracy of Genomic BLUP when considering a genomic relationship matrix based on number of largest eigenvalues: a simulation study. Genet. Sel. Evol. 51:75. https://doi.org/10.1186/s12711-019-0516-0

69. Oliveira, D.P., **D.A.L. Lourenco****, S. Tsuruta, I. Misztal, D. J.A. Santos, F. R. de Araújo Neto, R. R. Aspilcueta-Borquis, F. Baldi, R. Carvalheiro, G.M.F. de Camargo, L.G. Albuquerque, H. Tonhati. 2018. Reaction norm for yearling weight by single-step methodology in beef cattle. *J. Anim. Sci.* 96:27–34. https://doi.org/10.1093/jas/skx006

70. Zhang, X., S. Tsuruta, S. Andonov, **D.A.L. Lourenco**, R.L. Sapp, R.J. Hawken, and I. Misztal. 2018. Relationships among performance traits, mortality, and disorder traits in broiler chickens: a genetic and genomic approach. Poultry Sci. pex431. https://doi.org/10.3382/ps/pex431

71. Kluska, S., L.O.C. Silva, F.M. Costa-Maia, **D.A.L. Lourenco**, T.E. Stivanin, F. Baldi, E. Peripolli, E.N. Martins. 2018. Estimation of genetic parameters for probability of calving up to 39 months of age, stayability, and scrotal circumference in Nelore cattle. Livest. Res. Rural. Dev. 30(5):1-8.

72. Vallejo R.L., Silva R.M.O., Evenhuis J.P., Gao G., Liu S., Parsons J.E., Martin K.E., **Lourenco D.A.L.**, Leeds T.D. & Y. Palti. 2018. Accurate genomic predictions for BCWD resistance in rainbow trout are achieved using low-density SNP panels: Evidence that long-range LD is a major contributing factor. *J. Anim. Breed. Genet.* 135:263-274. https://doi.org/10.1111/jbg.12335

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Misztal, I., H. L. Bradford, D. A. L. Lourenco, S. Tsuruta, Y. Masuda, A. Legarra, and T. J. Lawlor. 2017. Studies on inflation of GEBV in single-step GBLUP for type. Interbull Bull. 51:38-42.

Lourenco, D.A.L., A. Legarra, S. Tsuruta, D. Moser, S. Miller, and I. Misztal. 2018. Tuning indirect predictions based on SNP effects from single-step GBLUP. Interbull Bull. 53:48-53.

Misztal, I., D.A.L. Lourenco, B. Fragomeni, and H. Bradford. 2018. International bull evaluation by GBLUP with prediction populations. In: Interbull Bull. XXXXX.

Misztal, I. and D.A.L. Lourenco. 2018. Current research in unweighted and weighted ssGBLUP. In: 11th BIF Genetic Prediction Workshop.

Book Chapters

Misztal, I. and D.A.L. Lourenco. 2020. Genomic selection using single-step genomic BLUP. Burleigh Dodds Science Publishing

Lino, D.A., F.M. Costa-Maia, E.N. Martins. Random Regression: a quantitative tool for better utilization of animal genetic. Agricultural Production Systems, UFTPR – Campus Dois Vizinhos, 2010, 406p. (In Portuguese).

Costa-Maia, F.M., D.A. Lino, E.N. Martins. Economics and sustainable aspects of bee pollination. Agricultural Production Systems, UFTPR – Campus Dois Vizinhos, 2010, 406p. *(In Portuguese)*.

Lino, D.A., Costa-Maia, F.M. Genomics: The application of genetic advances in animal breeding. Agricultural Production Systems, UFTPR – Campus Dois Vizinhos, 2009, 449p. *(In Portuguese)*.

Costa-Maia, F.M., **D.A. Lino** Genetic improvement of Africanized honeybees: some critical issues. Agricultural Production Systems, UFTPR – Campus Dois Vizinhos, 2009, 449p. *(In Portuguese).*

Proceeding Papers
59 publications in national and international meetings from 2005 to 2021

Proceeding Abstracts
153 abstracts in national and international meetings from 2008 to 2021

Technical Publications
1) 6 Sire Summaries for national evaluation of Brahman, Gir, Guzera, Indubrasil, Nellore, and Tabapua from 2011 to 2012 (Brazil)
2) J.R. Segers and D. Lourenco. 2019. Genomic Testing in Beef Cattle: How does it work? University of Georgia Cooperative Extension Bulletin 1506.

Other Publications
1) Misztal, I., S. Tsuruta, **D.A.L. Lourenco**, Y. Masuda, I. Aguilar, A. Legarra, and Z. Vitezica. 2014. Manual for BLUPF90 family of programs.
(http://nce.ads.uga.edu/wiki/lib/exe/fetch.php?media=blupf90_all7.pdf)

2) Legarra, A., **D.A.L. Lourenco**, and Z. Vitezica. 2018. Bases for Genomic Prediction.

(http://genoweb.toulouse.inra.fr/~alegarra/GSIP.pdf)

3) **Lourenco, D.A.L.** 2019. Introduction to Genomic Selection.

(http://nce.ads.uga.edu/wiki/lib/exe/fetch.php?media=gs_lourenco_2019a.pdf)

Recent Short Courses
Computational Techniques in Animal Breeding (2011 – Maringa, Brazil)
Computational Techniques in Animal Breeding (2014 – UGA, USA – Co-teaching)
Genomic selection with focus on single-step methodology (2015 – Poland – Co-teaching)
Single-step Genomic BLUP: From Theory to Practice (2015 – Zoetis)
Computational Techniques in Animal Breeding (2016 – UGA, USA – Co-teaching)
Genomic selection with focus on single-step methodology (2017 – Campo Grande, Brazil)
Genomic selection with focus on single-step methodology (2017 – Maringa, Brazil)
Computational Techniques in Animal Breeding (2018 – UGA, USA – Co-teaching)
Genomic selection with focus on single-step methodology (2019 – Piracicaba, Brazil)
Genomic Analyses using BLUPF90 (2019 – Uppsala, Sweden)
Genomic Analyses using BLUPF90 (2019 – Moscow, Russia)

Recent Talks (I = invited)
  1. EMBRAPA (Brazil, October 2011)I

2. JAM (Phoenix, AZ, July 2012)
3. NCERA–199 (Des Moines, IA, November 2012)
4. JAM (Indianapolis, IN, July 2013)
5. AICA – Board of Directors Meeting (Kansas City, MO, October 2013)I
6. JAM (Kansas City, MO, July 2014)
7. WCGALP (Vancouver, Canada, August 2014)
8. AAA – Board of Directors Meeting (St. Joseph, September 2014)I
9. AGIL–USDA (Beltsville, MD, October 2014)
10. NCERA–225 (Bozeman, MT, October 2014)
11. University of Guelph (Guelph, Canada, November 2014)I
12. University of Guelph (Guelph, Canada, December 2014)I
13. University of Georgia (Athens, GA, April 2015)I
14. BIF Conference (Biloxi, MS, June 2015)I
15. Interbull Meeting (Orlando, FL July 2015)
16. JAM (Orlando, FL, July 2015)
17. EAAP – talk 1 (Warsaw, Poland, September 2015)
18. EAAP – talk 2 (Warsaw, Poland, September 2015)
19. EAAP – talk 3 (Warsaw, Poland, September 2015)I
20. NCERA-225 (Fargo, ND, October 2015)
21. AICA – Board of Directors Meeting (Kansas City, MO, October 2015)I
22. Northeast Georgia Beef Cattle Short Course (Athens, GA, February 2016)I
23. Burke & Jefferson County Beef Cattle Field Day (Ogeechee Angus; Wadley, GA, March 2016)I
24. Angus Genetics Inc. (St. Joseph, MO, June 2016)I
25. JAM (Salt Lake City, UT, July 2016)
26. USDA Warmwater Aquaculture Research Unit (Stoneville, MS, July 2016)I
27. NCERA-225 (St. Joseph, MO, October 2016)
28. University of Georgia (Athens, GA, November 2016)I
29. PAG XXV – Plant and Animal Genome Conference (San Diego, CA, January 2017)I
30. BIF Conference (Athens, GA, June 2017)I
31. ADSA (Pittsburgh, PA, June 2017)
32. ASAS (Baltimore, MD, July 2017)
33. EAAP – talk 1 (Tallinn, Estonia, September 2017)
34. EAAP – talk 2 (Tallinn, Estonia, September 2017)
35. Ss. CYRIL AND METHODIUS UNIVERSITY (Skopje, Macedonia, September 2017)I
36. NCERA-225 (Manhattan, KS, October 2017)
37. Statistical Modeling Workshop (Maringa, Brazil, December 2017)I
38. Seriola Workshop (La Jolla, CA, January 2018)I
39. Interbull Meeting (Auckland, New Zealand, February 2018)
40. WCGALP 11 (Auckland, New Zealand, February 2018)I

41. Aquaculture Canada (Quebec City, Canada, May 2018) I
42. BIF Conference (Loveland, CA, June 2018)I
43. ADSA (Knoxville, TN, June 2018)
44. ASAS (Vancouver, Canada, July 2018)I
45. EAAP (Dubrovnik, Croatia, August 2018)
46. Sunbelt Expo (Moultrie, GA, October 2018 – Extension talk)I
47. IX SIGM (Viçosa, Brazil, October 2018)I
48. 7th ISAFG (Adelaide, Australia, November 2018)I
49. BIF – 11th Genetic Prediction Workshop (Kansas City, MO, December 2018)I
50. PBRT – Pig breeders round table (Canterbury, UK, April 2019)
51. CGDG Seminar – Roslin Institute (Edinburgh, UK, May 2019)I
52. Interbull 2019 (Cincinnati, OH, June 2019)
53. ADSA 2019 (Cincinnati, OH, June 2019)
54. ASAS 2019 (Austin, TX, July 2019)
55. ESALQ – University of Sao Paulo, Department of Animal Science (Piracicaba, Brazil, August 2019)I
56. EAAP 2019 (Ghent, Belgium, August 2019)
57. Ernst Federal Science Center for Animal Husbandry (Podolsk, Russia, September 2019)I
58. 23rd AAABG (Armidale, Australia, November 2019)I – Keynote Speaker
59. Brazilian Bovine Genomics Workshop (Ribeirao Preto, Brazil, November 2019)I – Keynote Speaker
60. Brazilian Association of Zebu Cattle (Uberaba, Brazil, December 2019)I
61. Brazilian Association of Zebu Cattle (Uberaba, Brazil, December 2019)I
62. PAG XXVIII – Plant and Animal Genome Conference (San Diego, CA, January 2020)I – Keynote Speaker
63. University of Georgia (Athens, GA, March 2020)I
64. Federal University of Mato Grosso do Sul (Campo Grande, Brazil, April 2020 - virtual)I
65. BIF Conference (Virtual, June 2020)I
66. University of Zagreb (Zagreb, Croatia, June 2020 - virtual)I
67. National Autonomous University of Mexico (Mexico City, Mexico, June 2020 - virtual)I
68. ADSA 2020 (Virtual, June 2020)
69. ASAS 2020 (Virtual, July 2020)I
70. ASAS 2020 (Virtual, July 2020)I
71. Purdue University (Virtual, September 2020)I
72. Iowa State University (Virtual, September 2020)I
73. Argentinian Society of Genetics Meeting (Virtual, September 2020)I
74. EAAP 2020 (Virtual, December 2020)
75. Wageningen University and Breed4Food Workshop – Netherlands (Virtual, May 2021)I
76. ADSA 2021 (Virtual, July 2021)
77. ASAS 2021 (Hybrid – Louisville, KY, July 2021)

78. AbacusBio – New Zealand (Virtual, August, 2021)I
79. Bayer Crop Sciences – US (Virtual, August, 2021)I
80. SBZ 2021 – Brazil (Virtual, August, 2021)I
81. CDCB (Bowie, MD, August, 2021)I
82. EAAP 2021 (Davos, Switzerland, September, 2021)
83. University of Sassari – Italy (Italy, September, 2021)I
84. SBMA 2021 – Brazil (Virtual, October 2021)I
85. IFFAGBR 2021 – China (Virtual, December 2021)I
86. NCERA-225 – US (Virtual, December 2021)
87. Fast Genetics Innovation hour – Canada (Virtual, December 2021)I

Teaching Experience
2005 – State University of Maringa (Brazil) – Undergraduate course: Animal Breeding (10%)
2007, 2009, 2010 – College of Astorga (Brazil) – Specialization course: Genetics (100%)
2010 – State University of Maringa (Brazil) – Graduate course: Experimental Design (10%)
2013 – The University of Georgia (USA) – Graduate course: Mixed Models in Animal Breeding (20%)
2015 – The University of Georgia (USA) – Graduate course: Mixed Models in Animal Breeding (20%)
2015 – The University of Georgia (USA) – Undergraduate course: Introduction to Genetics of Livestock Improvement (Teaching Assistant)
2016 – The University of Georgia (USA) – Undergraduate course: Introduction to Genetics of Livestock Improvement (Teaching Assistant)
2017 – The University of Georgia (USA) – Undergraduate course: Introduction to Genetics of Livestock Improvement (100%)
2018 – The University of Georgia (USA) – Undergraduate course: Introduction to Genetics of Livestock Improvement (100%)
2018 – The University of Georgia (USA) – Graduate course: Applied Linear Models (100%)
2019 – The University of Georgia (USA) – Undergraduate course: Introduction to Genetics of Livestock Improvement (100%)
2020 – The University of Georgia (USA) – Undergraduate course: Introduction to Genetics of Livestock Improvement (100%)
2020 – The University of Georgia (USA) – Genomic Analyses using BLUPF90 (100%)
2021 – The University of Georgia (USA) – Undergraduate course: Introduction to Genetics of Livestock Improvement (100%)
2021 – The University of Georgia (USA) – Graduate course: Applied Linear Models (100%)

Committee Member in Defenses
2021 – University of Georgia (USA): member of 3 PhD committees and 2 Masters
       Jorge Hidalgo, Matias Bermann, Yvette Steyn, Mary Kate Hollifield, Fiona Guinan
2020 – University of Georgia (USA): member of 1 PhD committee

Pattarapol Sumreddee

2019 – Federal University of Vicosa (Brazil): member in 1 Masters committee

2018 – University of Georgia (USA): member of 2 PhD committees
       Ling-Yun Chang, Sajjad Toghiani

2018 – Federal University of Vicosa (Brazil): member in 2 PhD committee
       Vinicius Junqueira, Hinayah Oliveira

2018 – Maringa State University (Brazil): member in 1 Masters committee
       Diego Correa Alves

2017 – University of Guelph (Canada): member of 1 PhD committee
       Aline Guarini

2017 – University of Georgia (USA): member of 2 PhD committees
       Ivan Pocrnic, Heather Bradford

2016 – University of Guelph (Canada): member of 1 PhD committee
       Steve Lamer

2015 – Sao Paulo State University (Brazil): member of 1 PhD committee
       Rafael Silva

2010 – Maringa State University (Brazil): member in 3 specialization defenses

2006 – 2010 – Maringa State University (Brazil): member in 7 undergraduate defenses

UGA Graduate Student Advising

Jennifer Richter	Graduation 2023	Major Professor
Matias Bermann	Graduation 2023	Co-Major Professor
Natalia Leite	Graduation 2023	Major Professor
Taylor McWhorter	Graduation 2023	Major Professor
Sungbong Jang	Graduation 2022	Major Professor
Evan Hartono	Graduation 2022	Advisory Committee
Ashley Ling	Graduation 2022	Advisory Committee
Fiona Guinan	Graduation 2022	Major Professor
Mary Kate Hollifield	Graduation 2021	Co-Major Professor
Jorge Hidalgo	Graduation 2021	Co-Major Professor
Andre Garcia	Graduation 2020	Major Professor
Yvette Steyn	Graduation 2020	Co-Major Professor
Jennifer Richter	Graduation 2020	Advisory Committee
Pattarapol Sumreddee	Graduation 2020	Advisory Committee
Ling-Yung Chang	Graduation 2018	Advisory Committee
Sajjad Toghiani	Graduation 2018	Advisory Committee
Ivan Pocrnic	Graduated 2017	Co-Major Professor
Heather Bradford	Graduated 2017	Co-Major Professor
Luna Zhang	Graduated 2015	Co-Advisor

UGA Postdoctoral (co)supervising

2017 – Dr. Breno Fragomeni (co-supervisor with Ignacy Misztal)
2018 – Dr. Rafael Silva (co-supervisor with Yniv Palti)
2019 – Dr. Ivan Pocrnic (co-supervisor with Ignacy Misztal)
2020 – Dr. Alberto Cesarani (co-supervisor with Ignacy Misztal)
2020 – Dr. Andre Garcia (Ignacy Misztal)
2020 – Dr. Rostam Abdollahi-Arpanahi (co-supervisor with Ignacy Misztal)
2021 – Dr. Jorge Hidalgo (co-supervisor with Ignacy Misztal)
2021 – Dr. Matias Bermann (co-supervisor with Ignacy Misztal)
2021 – Dr. Alberto Cesarani (co-supervisor with Ignacy Misztal)

Graduate Students Advising – Other Universities

Rafael M.O. Silva	Sao Paulo State University	Graduated 2015 (PhD)	Co-Major Professor
Daniele P. Oliveira	Sao Paulo State University	Graduated 2015 (PhD)	Co-Major Professor
Esther van der Heide	Wageningen University	Graduated 2016 (MS)	Co-Major Professor
Alula Assen	Wageningen University	Graduated 2017 (MS)	Co-Major Professor
Aline R. Guarini	University of Guelph	Graduated 2017 (PhD)	Co-Major Professor
Steve Lamer	University of Guelph	Graduated 2016 (PhD)	Committee Memeber
Diego C. Alves	Maringa State University	Graduated 2018 (MS)	Committee Member
Hinayah Oliveira	University of Vicosa / University of Guelph	Graduated 2019 (PhD)	Co-Major Professor
Natalia Galoro	University of Vicosa	Graduated 2019 (MS)	Co-Major Professor
Sabrina Kluska	Sao Paulo State University	Graduation 2020 (PhD)	Co-Major Professor
Bryan Dauria	University of Sao Paulo	Graduation 2021 (PhD)	Advisory Committee
Juana Chuma	University A. N. Mexico	Graduation 2023 (PhD)	Advisory Committee
Andre Araujo	Purdue University	Graduation 2021 (PhD)	Advisory Committee

Supervision of Visitors / Research Associates

1. Esther van der Heide – Visitor from Wageningen University, The Netherlands (up to 11/2015)
2. Daniele P. Oliveira- PhD UNESP, Brazil (up to 2/2015)
3. Sreten Andonov, University of Skopje, Macedonia (up to 5/2016)
4. Idalmo Pereira, Universidade Federal de Minas Gerais, Brazil (up to 4/2016)
5. Marcos Vinicius Silva – EMBRAPA, Brazil (2/2016 and 4/2016)
6. Aline R. Guarini – PhD (2017) University of Guelph, Canada (8/2016)
7. Francesca Malchiodi, Postdoc University of Guelph, Canada (8/2016)
8. Isabela Menezes – PhD, University of Sao Paulo (from 1/2016 to 10/2016)
9. Vinicius Junqueira – PhD, University of Viçosa, Minas Gerais, Brazil (from 8/2016 to 12/2016)

10. Alula Assen – Masters (2017), Visitor from Wageningen University, The Netherlands (5/2017 to 8/2017)
11. Alberto Cesarani – PhD (2019) Visitor from UNISS, Italy (3/2017 to 7/2017)
12. Gustavo G. Santiago – PhD (2018), Visitor from UFMS, Brazil (10/2017 to 4/2018)
13. Amanda Maiorano – PhD (2019), Visitor from UNESP, Brazil (4/2017 to 5/2018)
14. Nedenia Stafuzza – Postdoc (2017), Visitor from UNESP, Brazil (2/2017 to 11/2017)
15. Aline R. Guarani – PhD (2017) University of Guelph, Canada (10/2017)
16. Hinayah Oliveira – PhD (2019) University of Viçosa / University of Guelph (9/2017)
17. Rafael M. O. Silva – Postdoc (Feb/2017 to Jan/2019), USDA
18. Fabiana Costa-Maia – UTFPR (Feb/2018 to Jan/2019)
19. Nadson Souza – PhD (2019) University of Viçosa, Brazil (6/2018 to 10/2018)
20. Natalia Galoro – MS (2020) University of Viçosa, Brazil (7/2018 to 12/2018)
21. Gabriel Campos – Postdoc (2019) University of Pelotas, Brazil (12/2018 to 11/2019)
22. Sabrina Kluska – PhD (2020) Visitor from UNESP, Brazil (5/2019 to 2/2020)
23. Lukas Wodas – PhD (2020) Visitor from PFHBiPM, Poland (7/2019 to 8/2019)
24. Jose Luiz Gualdron-Duarte – Postdoctor visitor from University of Liege (10/2019)
25. Enrico Mancin – PhD (2022) University of Padova, Italy (10/2019 to 6/2020)
26. Piriyaporn Sungkhapreecha (2022) Tailand (11/2019 to 3/2021)
27. Bjarke Poulsen – PhD (2022) Aarhus University, Denmark (3/2021 to 7/2021)

Honors and professional awards
2021 – EAAP Early career competition – Best presentation (N. Leite)
2020 – 2020 Recipient of the UGA Fred C. Davison Early Career Scholar Award
2019 – Graduate Student (A. Garcia) received UGA graduate school travel award.
2019 – Graduate Student (A. Garcia) 27th Plant and Animal Genome Conference Scholarship
2019 – Postdoctoral Assoc. (I. Pocrnic) 27th Plant and Animal Genome Conference Scholarship
2018 – Graduate Student (A. Garcia) 11th WCGALP Scholarship
2017 – UGA Global Programs International Travel Fund – INRA Toulouse
2017 – Graduate Student (A. Garcia) 26th Plant and Animal Genome Conference Scholarship
2017 – Postdoctoral Associate (R. Silva) 26th Plant and Animal Genome Conference Scholarship

Professional affiliations
2018–Present   GSA – Genetic Society of America
2017–Present   EAAP – European Federation of Animal Science
2017–Present   ADSA – American Dairy Science Association
2017–Present   ASAS – American Society of Animal Science
2011–2016   FASS – Federation of Animal Science Societies

Organization of Courses and Conferences
SBMA (2010 – Brazil)
Computational Techniques in Animal Breeding (2012 – UGA)
Computational Techniques in Animal Breeding (2014 – UGA)
Computational Techniques in Animal Breeding (2016 – UGA)

Computational Techniques in Animal Breeding (2018 – UGA)

Editorial Activities
Associate Editor for GSE
Section Editor for Journal of Dairy Science

Reviewer for (number of papers)
Journal of Animal Science (13)
Journal of Dairy Science (15)
Journal of Animal Breeding and Genetics (6)
Journal of Animal Science and Biotechnology (1)
Animal Genetics (1)
BMC Genetics (2)
BMC Genomics (2)
Heredity (1)
Livestock Production Science (9)
GSE - Genetics Selection Evolution (12)
Anais da Acad. Brasileira de Ciencias (1)
Revista Mexicana De Ciencias Pecuarias (1)
Poultry Science (1)
World Aquaculture (1)
Frontiers (2)
PlosOne (1)

Grant Proposals (15)

ADSA abstracts 2017 (10)
ADSA abstracts 2018 (20)
ASAS abstracts 2018 (15)
ADSA abstracts 2019 (25)
ASAS abstracts 2019 (40)
ADSA abstracts 2020 (20)
ADSA abstracts 2021 (9)

PhD Proposals (1)

Computer Skills
Programing language: Fortran
Statistical computational tools: R, SAS
Operating system: Linux (bash scripting), Windows