BAYODE O. MAKANJUOLA, Ph.D.

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Academic History

Ph.D. in Quantitative Genetics and Genomics
University of Guelph | Guelph, Ontario, Canada
06/2020

M.Sc. in Quantitative Genetics and Genome Analysis
University of Edinburgh | Edinburgh, Scotland, United Kingdom
11/2012

B.Agric. in Animal Breeding and Genetics
University of Agriculture | Abeokuta, Ogun State, Nigeria
04/2010

Work Experiences

Aarhus University
Postdoctoral Associate
09/2026 - present

University of Guelph
Post-Doctoral Research Associate
05/2022 – 09/2026

Michigan State University
Post-Doctoral Research Associate
08/2021 - 09/2022

University of Guelph
Post-Doctoral Fellow
05/2020 - 10/2021

University of Guelph
Graduate Research Assistant
01/2017 - 04/2020

Novert Agro Consulting
Genetic Consultant
02/2013 – 12/2016

Aviagen Limited
Research Assistant
09/2012 – 12/2012

Obasanjo Breeder Farm
Assistant Supervisor
08/2010 - 07/2011

Teaching Experiences

University of Guelph
Sessional Lecturer
Fundamentals of Plant and Animal Genetics
09/2023 - 12/2023
09/2024 - 12/2024

University of Guelph
Instructor
Biometry for Animal Sciences
01/2021 - 04/2021

University of Guelph
Guest Lecturer
Quantitative Genetics
02/2018 - 03/2018

University of Guelph
Graduate Teaching Assistant
Genetics of Companion Animals
09/2018 - 12/2018
09/2017 - 12/2017

Professional Recognitions and Awards

- Teaching Award, University of Guelph, 2024
- Top 100 most cited journal article in the journal of dairy science, 2021 - 2023
- Industry Outreach Award, University of Guelph, 2022
- Elsevier recognized my published article as addressing United Nations Sustainable Development Goals, 2022
- International Doctoral Tuition Scholarships, University of Guelph, 2018 - 2020

Selected Peer-reviewed Publications

- Neuert, L., V. Osborne, E.A. Armstrong, F. Pértille, C. Guerrero-Bosagne, T. Boswell, T.V. Smulders, C.F. Baes, **B.O. Makanjuola** (2026). Genome-wide association analysis of hippocampal neuroplasticity as an indicator of stress responsiveness in laying hens (*Gallus gallus domesticus*). Animal Genetics, 57(5), e70202
- Hoeksema, K., C.F. Baes, S.G. Gebhardt-Henrich, M.B. Petelle, M.J. Toscano and **B.O. Makanjuola.** (2026). Genome-wide association study of durations in zones of an aviary for laying hens. Poultry Science, 105(6) 106719
- Lynch C., **B.O. Makanjuola**, F.S. Schenkel, F. Miglior, D. Kelton and C.F. Baes. (2026). Investigating the genetic architecture of dairy calf disease traits and their relationships with traits of economic importance in Canadian Holstein cattle. Journal of Dairy Science, 109(7), 7248-7262
- Phillips, A.G.R., **B.O. Makanjuola**, F. Miglior, F.S. Schenkel, M.A. Steele, C.F. Baes and R.E. Jahnel. (2026). Estimating genetic variation and heritability of metabolizable energy intake of dairy calves during the rearing period. Journal of Dairy Science, 109(6), 6444-6456

- **Makanjuola, B.O.,** C. Obari, G. Condello, F. Miglior, C. Maltecca, J.B. Cole, F.S. Schenkel and C.F. Baes. (2025). Genetic and genomic relationships among Canadian Holstein dairy cattle population and international Holstein bulls. Interbull Bulletin, (61) 129-135
- **Makanjuola, B.O.,** S.G. Gebhardt-Henrich, M.J. Toscano and C.F. Baes (2024). Genetic parameter estimates for the use of an aviary with winter garden by laying hens. Poultry Science, 103(13) 103369
- Cole, J.B., **B.O. Makanjuola,** C.M. Rochus, N. van Staaveren and C.F. Baes (2023). The effects of breeding and selection on lactation in dairy cattle. Animal Frontiers 13(3), 55-63
- **Makanjuola, B.O.,** E.A. Abdalla, B.J. Wood and C.F. Baes (2022). Applicability of single-step genomic evaluation with a random regression model for reproductive traits in turkeys (*Meleagris gallopavo*). Front. Genet. 13:923766
- **Makanjuola, B.O.,** G. Rovere, B.C.D. Cuyabano, S.H. Lee and C. Gondro (2022). Including environmental variables in genomic models for carcass traits in Hanwoo beef cattle. 12th Proceedings of the World Congress on Genetics Applied to Livestock Production Rotterdam, Netherlands
- Abdalla, E.A., **B.O. Makanjuola**, B.J. Wood and C.F. Baes (2022). Genome-wide association study reveals candidate genes relevant to body weight in female turkeys (Meleagris gallopavo). PLoS ONE 17(3): e0264838
- Abdalla, E.A., **B.O. Makanjuola,** N. Van Staaveren, B.J. Wood and C.F. Baes (2021). Accuracy of genomic selection for reducing susceptibility to pendulous crop in turkey (*Meleagris gallopavo*). Poultry Science, 101(2), Page 101601
- **Makanjuola, B.O.,** V.E. Olori and R.A. Mrode (2021). Modeling genetic components of hatch of fertile in broiler breeders. Poultry Science, 100(5), Page 101062
- **Makanjuola, B.O.,** C. Maltecca, F. Miglior, G. Marras, E.A. Abdalla, F.S. Schenkel, and C.F. Baes. (2021) Identification of unique ROH regions with unfavorable effects on production and fertility traits in Canadian Holsteins. GSE. 53(1) 68
- **Makanjuola, B.O.,** C. Maltecca, F. Miglior, F.S. Schenkel and C.F. Baes (2020). Effect of recent and ancient inbreeding on production and fertility traits in Canadian Holsteins BMC Genomics 21(1) 605
- **Makanjuola, B.O.,** F. Miglior, E.A. Abdalla, C. Maltecca, F.S. Schenkel and C.F. Baes (2020). Effect of genomic selection on rate of inbreeding and effective population size of Holstein and Jersey cattle populations. Journal of Dairy Science, 103(6), 5183-5199
- Baes, C.F., **B.O. Makanjuola**, F. Miglior, G. Marras, J. Howard, A. Fleming and C. Maltecca (2019). Symposium review: The genomic architecture of inbreeding: How homozygosity affects health and performance. Journal of Dairy Science, 102(3), 2807–2817

Book Chapters

- **Makanjuola, B.O.,** C.F. Baes and F. Miglior (2026). Advances in understanding and improving genetic diversity in dairy cattle. Edited by Donagh Berry. Chapter in Optimising breeding of dairy cows: Leveraging genetics for more sustainable production. Burleigh dodds publisher

- **Makanjuola, B.O.,** E.A. Abdalla, C.F. Baes and B.J. Wood (2021). Selection for reproductive efficiency in turkeys and broiler chickens: egg production, hatchability and fertility. Breeding Focus 2021, Improving Reproduction. Edited by Susanne Hermesch and Sonja Dominik. Armidale, NSW, Australia: Animal Genetics and Breeding Unit. 143-150

- Baes, C.F., **B.O. Makanjuola** and L. Schaeffer (2019). Assessing inbreeding and genetic diversity in the Holstein breed using pedigree and genomic approaches. Edited by Jennie Pryce and Julius van der Werf. Chapter in Advances in breeding of dairy cattle. Burleigh dodds publisher