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| **Yaw Oppong Frimpong, Ph.D.** | | |
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| **PERSONAL INFORMATION** | | |
| **Residential Address:** | PLT 7 BLK X Anwomaso, Kumasi | |
| **Postal Address:** | Department of Animal Science, Kwame Nkrumah University of Science and Technology,  PMB UPO, Kumasi, Ghana.  **OR**  Box KS 4961 Adum, Kumasi. | |
| **Phone:** | 0244664701 | |
| **Email:** | [oppongfrimpong1@gmail.com](mailto:oppongfrimpong1@gmail.com) / [yaw.frimpong@knust.edu.gh](mailto:yaw.frimpong@knust.edu.gh) | |
| **Date of Birth:** | Thursday 30th April, 1987 | |
| **Sex:** | Male | |
| **Nationality:** | Ghanaian | |
| **Languages spoken:** | English, Twi | |
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| **EMPLOYMENT INFORMATION** | | |
| **Occupation:** | Lecturer | |
| **Staff No.:** | 6202462 | |
| **Employers:** | Kwame Nkrumah University of Science and Technology, Kumasi-Ghana | |
| **Department:** | Animal Science (DAS), Faculty of Agriculture, College of Agriculture and Natural Resources. | |
| **Ranks:** | Lecturer | September, 2020 to date |
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| **EDUCATION** | | |
| **Institutions attended** | Light House Junior Secondary School, Atimatim, Kwabre East District, Ghana – 1998 to 1999 | |
|  | New Oxford International School, Kumasi, Ghana – 1999 to 2002 | |
|  | Konongo Odumasi Secondary School, Odumasi, Asante Akim District, Ghana - 2002 to 2005 | |
|  | Kwame Nkrumah University of Science and Technology, Kumasi, Ghana - 2006 to 2010, 2011 to 2014 and 2015 to 2019 | |
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| **Academic degrees earned** | B. Sc. Second Class (Honours), Upper Division (Agriculture) – 2010 | |
| M.Sc. Animal Nutrition – 2014 | |
| Ph.D. Animal Nutrition – 2019 | |
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| **WORKING EXPERIENCE** | | |
|  | **Industrial Attachment at Kuma Farms Complex,** Domeabra, Ejisu Municipality, Ashanti.  From May to June, 2009 | |
|  | **National Service Personnel at the National Service Scheme’s Ejura Agric Project (NSSEAP)**, Ejura.  From September, 2010 to August, 2011 | |
|  | **Graduate Assistant at the Department of Animal Science, KNUST,** Kumasi.  From September, 2017 to May, 2018 | |
|  | **Tutorials provided in the following courses:**  Principles of Animal Nutrition  Animal Biotechnology  Swine Production  Feed Analysis and Agriculture By-Product Management  Swine and Poultry Nutrition | |
|  | **Assistant Lecturer, Department of Animal Production and Health (DAPH), School of Agriculture and Technology (SOAT), University of Energy and Natural Resources (UENR), Dormaa Campus,** Dormaa.  From August, 2018 to December 2019. | |
|  | **Lecturer, DAPH, SOAT, UENR, Dormaa Campus,** Dormaa.  From January, 2020 to August, 2020. | |
|  | **Courses taught:**  ANIM 101 & DAGR 206: Monogastric and Ruminant Production  DAGR 207: Aquaculture  ANIM 301 & 302: Ruminant Production (Regular and Top-Up)  SOAT 307: Organic Agriculture (Shared)  ANIM 405: Ruminant Nutrition (Regular and Top-Up)  ANIM 406: Dairy Production and Utilisation (Regular and Top-Up)  ANIM 400: Research Project (Regular and Top-Up) | |
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| **SERVICE TO THE COMMUNITY** | | |
| **International Community** | **Reviewer,** Journal of Development and Agricultural Economics  March 2020 to date. | |
|  | **Reviewer,** Journal of Agricultural Extension and Rural Development  February, 2020 to date. | |
|  | **Reviewer,** InternationalJournal of Fisheries and Aquaculture.  January, 2021 to date. | |
|  | **Reviewer,** AfricanJournal of Agriculture Research.  January, 2021 to date. | |
|  | **Reviewer,** AfricanJournal of Biotechnology.  January, 2021 to date. | |
| **University Community** |  | |
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| **RESEARCH INTEREST** | | |
|  | General Agriculture | |
|  | Animal Nutrition | |
|  | Organic Animal Production | |
|  | Use of Non-Conventional Feed Resources in Non-Ruminant Nutrition | |
|  | Responsible Animal Production (Finding Natural Alternatives to Antimicrobial Growth Promoters) | |
|  | Influence of Nutrition on Zoonotic Diseases in Livestock | |
|  | Edible Insects as Alternate Protein Source for Livestock | |
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| **SKILLS** | | |
| **Computer skills** | Microsoft Office (MS Word, MS PowerPoint, MS Excel, MS Publisher) | |
|  | Minitab, GenStat, IBM SPSS, Sigma Plot, Stata, JMP Statistical Software Packages | |
|  | EndNote and Mendeley Reference Managers | |
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| **Research skills** | Ability to design and manage livestock experiments.  Ability to design and manage field studies.  Laboratory Assays (Proximates, Detergent fibre, *in vitro* gas production) | |
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| **Other skills** | Management of commercial fish and livestock farms | |
|  | Induced spawning technique for catfish | |
|  | Management of largescale maize farms | |
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| **PROFESSIONAL AFFILIATION** | | |
|  | Ghana Society of Animal Production - 2013 to Date | |
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| **COURSES/ WORKSHOPS/CONFERENCES AND SEMINARS ATTENDED** | | |
|  | Workshop on Reducing Feed Cost in Commercial Pig and Poultry Farming, Organized by Agricare Ltd. at Ejisu Municipal Assembly Hall, Ejisu, Ashanti Region. 17th May 2012. | |
|  | EDULINK/WANOART Staff and Student Mobility Programme in Organic Agriculture, Federal University of Agriculture, Abeokuta (FUNAAB), Nigeria. 8th Feb- 28th March 2013. | |
|  | The Fourth Nigeria International Poultry Summit, Federal University of Agriculture, Abeokuta (FUNAAB), Nigeria.17th – 21 February 2013. | |
|  | Agricultural Fair, 2013. Federal University of Agriculture, Abeokuta (FUNAAB), Nigeria. 24th - 27th March 2013. | |
|  | Eighteenth Biennial Conference and 26th Annual General Meeting of the Ghana Society of Animal Production (GSAP), Noguchi Memorial Institute of Medical Research, University of Ghana, Legon-Accra, Ghana. 24th - 27th July 2013. | |
|  | Aviana Ghana Seminar for Poultry and Pig Farmers in the Ashanti Region, Miklin Hotel, Kumasi. 6th and 7th November 2013. | |
|  | Introduction to Interactive Statistics Using Stata, Kumasi Centre for Collaborative Research into Tropical Medicine, Kumasi - 18th - 29th May 2015. | |
|  | Training Programme on Statistics and Experimental Design for Postgraduate Students, Faculty of Renewable Natural Resources Lecture Theatre- 21st – 23rd July 2015. | |
|  | PalsAfrica Seminar for Poultry and Pig farmers in the Ashanti Region, 13th – 16th October 2015. | |
|  | DFG ‘German-African Cooperation Projects in Infectology’. First Graduate Training Workshop in Research Methods on Ecology of Bats and Rodents. Forestry Research Institute of Ghana (FORIG) Guest House, Bobiri Forest Reserve - 13th – 15th January 2016. | |
|  | Thirty-third Ghana Animal Science Association (GASA) Symposium, International Conference Centre, University for Development Studies, Tamale – 3 – 6th August 2016. | |
|  | Twentieth International Biennial Conference and Twenty-Eighth Annual General Meeting of the Ghana Society of Animal Production, University of Cape Coast, Cape Coast – 1st – 5th August 2017. | |
|  | Two-Day Workshop for Capacity Building in Curriculum Development to Mount New Programmes – NCTE and NAB Requirement. University of Energy and Natural Resources, Auditorium, 27 & 28th September 2018 | |
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| **LEADERSHIP** | | |
|  | **Assistant Coordinator** – Ghana Society of Animal Production- Students Wing (KNUST) for the 2013/2014 academic year. | |
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| **HONORS, AWARDS AND CERTIFICATES** | | |
|  | **Certificate of Participation** - The Fourth Nigeria International Poultry Summit, Federal University of Agriculture. Federal University of Agriculture, Abeokuta (FUNAAB), Nigeria- 8th Feb- 28th March 2013.  **Certificate of Honour** – Ghana Society of Animal Production (Students Wing – KNUST) as an Assistant Coordinator for the 2013/2014 academic year  **Certificate of Participation** - Introduction to Interactive Statistics Using Stata, Kumasi Centre for Collaborative Research into Tropical Medicine, Kumasi-18th -29th May 2015.  **Certificate of Participation** - DFG ‘German-African Cooperation Projects in Infectology’. First Graduate Training Workshop in Research Methods on Ecology of Bats and Rodents. Forestry Research Institute of Ghana (FORIG) Guest House, Bobiri Forest Reserve - 13th – 15th January 2016.  **Certificate of Participation** - Thirty-third Ghana Animal Science Association (GASA) Symposium, International Conference Centre, University for Development Studies, Tamale – 3rd – 6th August 2016.  **Certificate of Participation** - Twentieth International Biennial Conference and Twenty-Eighth Annual General Meeting of the Ghana Society of Animal Production, University of Cape Coast, Cape Coast – 1st – 5th August 2017. | |
| **LIST OF PUBLICATIONS** | | |
| **Theses** | 1. **Frimpong, Y. O**. 2010. Feed ingredients and their usage in the Ashanti Region of Ghana: A case study in the Ejisu-Juaben District. B.Sc. Thesis, KNUST, Kumasi, 50pp. | |
| 1. **Frimpong, Y. O**. 2013. Growth and reproductive performance and maternal and piglet blood profiles of pigs fed diets containing differing Direct-Fed Microbial (DFM) products. M.Sc. Thesis, KNUST, Kumasi, 112pp. | |
| 1. **Frimpong, Y. O.** 2019. Human livestock interactions and livestock feeding: Potential effects on zoonotic transmissions. Ph.D. Thesis, KNUST, Kumasi, 195pp. | |
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| **Journal articles published** | 1. Okai, D. B., Boateng, M., Armah, W. N. L. and **Frimpong, Y. O**. 2013. Responses of albino rats to high rice bran diets: effects of type of rice bran and level of Xzyme™ (An Exogenous Enzymes + Probiotics Feed Additive). *Online Journal of Animal and Feed Research*, 3 (5): 205-209 | |
| 1. Boateng M., Okai D. B., Aryee, S. N. D. and **Frimpong, Y. O**. 2013. The effects of Xzyme™ (an exogenous enzymes-probiotics complex) as a feed additive on the growth performance, carcass components and blood profile of growing pigs fed high rice bran-based diets. *Ghanaian Journal of Animal Science*, 7(2): 40-47. | |
| 1. Boateng, M., Okai, D. B., **Frimpong, Y. O**. and Asabere, C. O. 2014. A comparative study of the nutritional and microbial profiles of the raw and processed seeds of the African Locust Bean (Parkia biglobosa). *Livestock Research for Rural Development*, 26 (10), Article No. 178. Available at: <http://www.lrrd.org/lrrd26/10/boat26178.htm> | |
| 1. Boateng, M., Okai, D. B., **Frimpong, Y. O**. and Asumang-Owusu, A. 2014. Problems associated with the use of wet brewers spent grains (WBSG) and brewers spent yeast (WBSY), and possible solutions: A case study of some Afigya-Kwabre Pig Farmers, Ashanti Region, Ghana. *Ghanaian Journal of Animal Science*, 8 (1): 45-51 | |
| 1. Boateng, M., Okai, D. B., **Frimpong, Y. O**. and Osei, A. Y. 2014. Proximate composition and the effect of feeding Dried Pawpaw Leaf Meal (DPLM) on the growth, economic and carcass traits of albino rats. *Ghanaian Journal of Animal Science*, 8 (1): 52-58 | |
| 1. Boateng, M., Okai, D. B., **Frimpong, Y. O**. and Aning, J. 2014. Proximate composition and influence of Dried Pawpaw Peel Meal (DPPM) on growth performance and carcass composition of albino rats. *Ghanaian Journal of Animal Science*, 8 (1):143-149 | |
| 1. Boateng, M., Okai, D. B., **Frimpong, Y. O**. and Zeebone, Y. Y. 2015. Wet brewers’ spent grains and wet brewers’ spent yeast: problems associated with their usage and suggested solutions: a case study of the Ejisu-Juaben Municipality of Ghana. *Livestock Research for Rural Development*, 27 (1), Article No. 5. Available at: [http://www.lrrd.org/lrrd 27/1/boat27005.htm](http://www.lrrd.org/lrrd%2027/1/boat27005.htm) | |
| 1. Manu, F., Okai, D. B., Boateng, M. and **Frimpong, Y. O**. 2015. Nutrient composition, pest and microbial status and effects of discarded biscuits on the growth performance, carcass characteristics and economic profiles of growing-finishing pigs. *African Journal of Food, Agriculture, Nutrition and Development,* 15 (4):10241-10254 | |
|  | 1. Okai, D. B., Boateng, M., **Frimpong, Y. O.**, Anane, E. and MacAire, C. O. 2018. Origin and condition of pigs slaughtered at the Kumasi Abattoir Company Limited (KACL) at Kaase, Kumasi. *Ghanaian Journal of Animal Science*, 9 (1): 44-48 | |
| 1. Boateng, M., Okai, D. B., **Frimpong, Y. O.**, Ntim, A. and Acheampong, Y. S. 2018. Entomophagous response of albino rats to cockroach (*Periplaneta Americana*) meal. *Open Agriculture De Gruyter*, 3: 220-225 | |
|  | 1. Amoah, K. O., Boateng, M., Okai, D. B. and **Frimpong, Y. O.** 2018. Antinutritional factors and their relevance to monogastric animal agriculture in Ghana: Some important considerations. *Ghanaian Journal of Animal Science*, 9 (2): 1-15 | |
|  | 1. El-Duah, P., Meyer, B., Sylverken, A., Owusu, M., Gottula, L. T., Yeboah, R., Lamptey, J., **Frimpong, Y. O.**, Burimuah, V., Folitse, R., Agbenyega, O., Oppong, S., Adu-Sarkodie, Y. and Drosten, C. 2019. Development of a wholevirus ELISA for serological evaluation of domestic livestock as possible hosts of human coronavirus NL63. *Viruses,* 11 (43):1-18 | |
|  | 1. El-Duah, P., Sylverken, A., Owusu, Yeboah, R., Lamptey, J., **Frimpong, Y. O.**, Burimuah, V., Antwi, C., Folitse, R., Agbenyega, O., Oppong, S. and Adu-Sarkodie, Y. 2019.Potential Intermediate Hosts for Coronavirus Transmission: No Evidence of Clade 2c Coronaviruses in Domestic Livestock from Ghana. *Tropical Medicine and Infectious Disease,* 4, 34; doi: 10.3390/tropicalmed40100 34. 11pp. | |
|  | 1. Boateng, M., Okai, D. B., Amoah, K. O., Opoku-Asenso, A., Aye, K. A. and **Frimpong, Y. O.** 2019. Cocoa placenta meal: Yield estimates, nutrient composition and response of albino rats to diets containing graded levels with or without XymeTM, an exogenous enzyme-probiotic complex. *Bulletin of Animal Health and Production in Africa,* 67(2):141-150. | |
|  | 1. Antwi, C., Mensah, P. A., Arthur, F. K. N., **Frimpong, Y. O.** and Baah, J. 2019. Feeding differing direct-fed microbials and its influence on growth and haematological parameters of growing lambs. *Transitional Animal Science,* 3(4)txz053 | |
|  | 1. Burimuah, V., Sylverken, A., Owusu, M., El-Duah, P., Yeboah, R., Lamptey, J., **Frimpong, Y. O.**, Agbenyega, O., Folitse, R., Tasiame, W., Emikpe, B., Owiredu, E. W., Oppong, S. Adu-Sarkodie, Y., Drosten, C. 2020. Sero-prevalence, cross species infection and serological determinants of prevalence of Bovine Coronavirus in cattle, sheep and goats in Ghana. *Veterinary Microbiology*, <https://doi.org/10.1016/j.vetmic.2019.108544> | |
|  | 1. Boateng, M., Okai, D. B., Amoah, K. O., Boateng, J. O., **Frimpong, Y. O.** and Atuahene, P. Y. 2020. Occurrence of blood and meat spots in eggs processed and sold by commercial fried eggs (chibom) sellers at three locations in the Ashanti Region of Ghana. *Ghanaian Journal of Animal Science,* 10(1):51-57 | |
|  | 1. Amoah, K. O., Boateng, M., Okai, D. B., **Frimpong, Y. O.** and Appiah-Kubi, M. 2020. The effects of diet particle size on growth performance and carcass traits of albino rats. *Ghanaian Journal of Animal Science,* 10(1):98-103 | |
|  | 1. Boateng, M., Okai, D. B., **Frimpong, Y. O.**, Amoah, K. O., Boateng, E. A. and Atuahene, P. Y. 2020. Dried yam peel meal (DYPM) as a partial replacement for maize in diets of albino rats. *Ghanaian Journal of Animal Science,* 10(1):104-110 | |
|  | 1. Boateng, M., **Frimpong, Y. O.**, Okai, D. B., Amoah, K. O., Frimpong, B. and Anane, E. 2020.A preliminary study on different types of soybean meal on the Ghanaian market. *Ghanaian Journal of Animal Science,* 10(1):111-116 | |
|  | 1. Damsere, J. D., Boateng, M., Amoah, K. O., **Frimpong, Y. O.**, and Okai, D. B. 2020. The response of pigs to diets containing varying levels of cocoa placenta meal (CPM) supplemented with an exogenous enzyme complex. *African Journal of Agricultural Research*, *15*(4), 538-545. | |
|  | 1. Burimuah, V., Sylverken, A., Owusu, M., El-Duah, P., Yeboah, R., Lamptey, J., **Frimpong, Y.O.**, Agbenyega, O., Folitse, R., Emikpe, B., Tasiame, W., Owiredu, E-W, Oppong, S., Antwi, C., Adu-Sarkodie, Y. and Drosten, C. 2020. Molecular-based cross-species evaluation of bovine coronavirus infection in cattle, sheep and goats in Ghana. *BMC Veterinary Research*, *16*(1), pp.1-7. | |
|  | 1. Boateng, M., Amoah, K.O., **Frimpong, Y. O.**, Atuahene, P. Y., Okai, D. B. and Deku, P.N. 2020. Garico: A new food or feed resource? *Ghanaian Journal of Animal Science,* 11(1), 16-26. | |
|  | 1. Boateng, M., Atuahene, P.Y., Amoah, K.O., **Frimpong, Y.O.**, Okai, D.B., Agborson, S.M. and Amoo, D.N.D. 2020. Assessment of the production, nutrient composition and some mineral elements levels in corn-mill sweepings (CMS) from various sources in the Kumasi Metropolis. *Ghanaian Journal of Animal Science,* 11(1), 27-38*.* | |
|  | 1. Boateng, M., Amoah, K. O., **Frimpong, Y.O.**, Atuahene, P. Y., Okai, D.B. and Cudjoe, E. 2020. Gari and Garico: Replacement for maize in the diets of albino rats – A model for pigs. *Ghanaian Journal of Animal Science,* 11(1), 189-195*.* | |
|  | 1. Yeboah, R., Sylverken, A.A., Owusu, M., El-Duah, P., Burimuah, V., **Frimpong, Y.**, Lamptey, J., Eckerle, I., Meyer, B., Antwi, C., Agbenyaga, O., Folitse R., Emikpe, B., Oppong, S. K., Adu-Sarkodie, Y. and Drosten, C. 2021. Sero-molecular epidemiology of hepatitis E virus in pigs and human contacts in Ghana. *One Health Outlook*, *3*(1), pp.1-11. | |
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| **Short communication** | 1. Okai, D. B., Boateng, M., **Frimpong, Y. O.**, MacAire, C. O. and Anane, E. 2018. Trends in pig slaughtering at the Kumasi Abattoir Company Limited (KACL) from 2010 to 2015.*Ghanaian Journal of Animal Science*, 9 (1): 108-111. | |
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| **Edited conference proceedings** | 1. Okai, D. B., Boateng, M., Ewool, M. B., **Frimpong, Y. O.**, Opoku-Asenso, A. and Doe, J. 2016. Effects of some maize varieties on growth and carcass traits of albino rats. Proceedings of the 33rd GASA Symposium, International Conference Centre, University for Development Studies, Tamale, pp 135 – 139 | |
| 1. Boateng, M, Okai, D. B., Opoku-Asenso, A., Aye, K. A. and **Frimpong, Y. O.** 2016. Cocoa placenta meal: Nutrient composition and response of albino rats to diets containing graded levels, with or without XzymeTM, an exogenous enzymes-probiotics complex. Proceedings of the 33rd GASA Symposium, International Conference Centre, University for Development Studies, Tamale, pp 266 – 272 | |
| 1. Okai, D. B., Boateng, M., Issaka M., Opoku-Asenso A. and **Frimpong, Y. O.** 2016.Response of albino rats to diets containing varying levels of cocoa pod husk (CPH) supplemented with Xzyme™, an enzymes-probiotics feed additive. Proceedings of the 33rd GASA Symposium, International Conference Centre, University for Development Studies, Tamale, pp 273-279 | |
| 1. Okai, D. B., Boateng, M., Sasu, P., **Frimpong, Y. O.** and Opoku-Asenso, A. 2016. Assessment on the usage, and incidence and levels of contaminants in corn-mill sweepings (CMS), an agro-industrial by-product (AIBP). Proceedings of the 33rd GASA Symposium, International Conference Centre, University for Development Studies, Tamale, pp 280 – 288 | |
| 1. Okai, D. B., Boateng, M., **Frimpong, Y. O.**, Opoku-Asenso, A., Asamoah, I. and Okai, D. V. D. 2016. Baobab seed meal (BSM) – A new feed resource: response of albino rats to diets containing graded levels with or without Xzyme™ – an exogenous enzymes plus probiotics feed additive. Proceedings of the 33rd GASA Symposium, International Conference Centre, University for Development Studies, Tamale, pp 294 – 300 | |
| 1. Okai, D. B., Boateng, M., Akiem, L. B., Ntim, S. S. and **Frimpong, Y. O.** 2016. Influence of heat treatment and time on pH, and microbial and crude protein profiles of wet brewers’ spent yeast. Proceedings of the 33rd GASA Symposium, International Conference Centre, University for Development Studies, Tamale, pp 411 – 416 | |
| 1. **Frimpong, Y. O.**, Antwi, C.and Agbenyega, O. 2017. Feeds, feed handling and feeding practices of ruminant livestock farmers in selected farms in Ghana. Proceedings of the 20th International Biennial Conference of the Ghana Society of Animal Production, University of Cape Coast, Cape Coast, pp 1-12 | |
| 1. Boateng, M., Okai, D. B., **Frimpong, Y. O.**, Ntim, A. and Acheampong, Y. S. 2017. A preliminary study on the nutrient composition and influence of cockroach (P*eriplaneta americana)* meal on growth, economics of production and internal components of monogastric livestock using the albino rat as a model. Proceedings of the 20th International Biennial Conference of the Ghana Society of Animal Production, University of Cape Coast, Cape Coast, pp 25-33 | |
|  | 1. Boateng, M., Okai, D. B., **Frimpong, Y. O.**, Kyei, E. S. and Budu, E. 2017. Influence of L-lysine included palm kernel cake-based diets on the growth performance and carcass characteristics of albino rats. Proceedings of the 20th International Biennial Conference of the Ghana Society of Animal Production, University of Cape Coast, Cape Coast, pp 34-40 | |
|  | 1. Okai, D. B., Boateng, M., **Frimpong, Y. O.**, Ansah, K. O., Mohammed, A. and Budu, E. 2017. A preliminary study on the comparative degree of worm infestation in cattle raised in three locations in the Kumasi Metropolis. Proceedings of the 20th International Biennial Conference of the Ghana Society of Animal Production, University of Cape Coast, Cape Coast, pp 232-237 | |
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| **Other conference/symposium proceedings** | 1. Boateng, M. and **Frimpong, Y. O**. 2013. Organic agriculture in Ghana: Strengths, weaknesses, opportunities and threats. A presentation at the College of Animal Science and Livestock Production (COLANIM), Federal University of Agriculture, Abeokuta, Nigeria as part of the WANOART staff and student mobility programme. | |
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| **REFEREES** | | |
|  | **Professor Daniel Boye Okai**,  Department of Animal Science,  Kwame Nkrumah University of Science & Technology,  Kumasi-Ghana.  Tel. +233-208 229 511/ +233-244-614-824  Email: [boyeokai@gmail.com](mailto:boyeokai@gmail.com) | |
|  | **Dr Olivia Agbenyega,**  Department of Agroforestry,  Kwame Nkrumah University of Science & Technology,  Kumasi-Ghana.  Tel. +233-245-048-575  Email: [abenaafra@hotmail.com](mailto:abenaafra@hotmail.com) / [olivia\_agbenyega@yahoo.com](mailto:olivia_agbenyega@yahoo.com) | |
|  | **Dr Michael Boateng**,  Department of Animal Science,  Kwame Nkrumah University of Science & Technology,  Kumasi-Ghana.  Tel. +233-208-258-989/+233-202-773-773  Email: [mickyboat@yahoo.com](mailto:mickyboat@yahoo.com) | |