

2022 FSI Faculty Publications

Abbas, G....**Hoogenboom**, G., et al. (2022). Applications of crop modeling in rice production. In: Sarwar, N., Atique-ur-Rehman, Ahmad, S., Hasanuzzaman, M. (Eds.). *Modern Techniques of Rice Crop Production*, Springer. https://doi.org/10.1007/978-981-16-4955-4_28

Abreu, D. S., **Dubeux Jr.**, J., et al. (2022). Canopy characterization and nutritive value of stockpiled 'FLORALTA' LIMPOGRASS (HEMARTHRIA ALTISSIMA). *Agronomy Journal*. <https://doi.org/10.1002/agj2.21081>

Acosta, D., **Ludgate**, N., **McKune**, S. L., & **Russo**, S. (2022). Who has access to livestock vaccines? Using the social-ecological model and intersectionality frameworks to identify the social barriers to Peste des Petits ruminants vaccines in Karamoja, Uganda. *Frontiers in Veterinary Science*, 9, Article 831752. doi: 10.3389/vets.2022.831752. https://www.researchgate.net/profile/Daniel-Acosta-17/publication/358903058_Who_Has_Access_to_Livestock_Vaccines_Using_the_Social-Ecological_Model_and_Intersectionality_Frameworks_to_Identify_the_Social_Barriers_to_Peste_des_Petits_Ruminants_Vaccines_in_Karamoja_Uganda/links/621cbf166051a16582ffe5eb/Who-Has-Access-to-Livestock-Vaccines-Using-the-Social-Ecological-Model-and-Intersectionality-Frameworks-to-Identify-the-Social-Barriers-to-Peste-des-Petits-Ruminants-Vaccines-in-Karamoja-Uganda.pdf

Agustinho, B. C., Ravelo, A., Vinyard, J. R., Lobo, R. R., Arce-Cordero, J. A., Monteiro, H. F., Sarmikasoglou, E., Bennett, S., Johnson, M. L., Vieira, E. R. Q., Stoffel, C., Stocks, S. E., & **Faciola**, A. P. (2022). Effects of replacing magnesium oxide with calcium-magnesium carbonate with or without sodium bicarbonate on ruminal fermentation and nutrient flow in vitro. *Journal of Dairy Science*, ISSN 0022-0302. <https://doi.org/10.3168/jds.2021-20995>

Arce-Cordero, J. A., Fan, P., Monteiro, H. F., Dai, X., **Jeong**, K. C., & **Faciola**, A. P. (2022). Effects of choline chloride on the ruminal microbiome at 2 dietary neutral detergent fiber concentrations in continuous culture. *Journal of Dairy Science*, 2022, ISSN 0022-0302. <https://doi.org/10.3168/jds.2021-21591>

Arshad, U., & **Santos**, J. (2022). Hepatic triacylglycerol associations with production and health in dairy cows. *Journal of Dairy Science*. <https://doi.org/10.3168/jds.2021-21031>

Asche, F., **Garlock**, T., Camp, E., Guillen, J., Kumar, G., Llorente, I., & Shamshak, G. (2022). Market opportunities for US aquaculture producers: The case of Branzino. *The University of Chicago Press Journals*. <https://www.journals.uchicago.edu/doi/abs/10.1086/718437>

Asche, F., Oglend, A., & Smith, M. D. (2022). Global markets and the commons: The role of imports in the U.S. wildcaught shrimp market. *Environmental Research*. <https://doi.org/10.1088/1748-9326/ac5b3e>

Binelli, M. et al. (2022). Calculating calf performance in beef operations: The university of Florida beef herds in the 2019–2020 calving season. *UF IFAS Extension* #AN384. <https://doi.org/10.32473/edis-AN384-2022>

Cantrell, R., Suarez, C., Vasquez, K., & Jones, J. A. (2022). Using segmentation to potentially identify diverse future leaders. *SN Soc Sci*, 2(28). <https://doi.org/10.1007/s43545-022-00329-4>

Carman, K., O'Neal, L. J., Byrd-Bredbenner, C., Olfert, M. D., & Shelnutt, K. P. (2022). HomeStyles-2 for SNAP-Ed families with children in middle childhood: Cluster randomized trial protocol. *Contemporary Clinical Trials*, 117(2022), 106771. <https://doi.org/10.1016/j.cct.2022.106771>

Casaro, S., Marrero, M., Madrid, D., Prim, J., Nelson, C., Galvão, K., Laporta, J., & Driver, J. (2022). Flow cytometry panels for immunophenotyping dairy cattle peripheral blood leukocytes. *Veterinary Immunology and Immunopathology*, 2022, 110417, ISSN 0165-2427. <https://doi.org/10.1016/j.vetimm.2022.110417>

Cavani, L., Poindexter, M. B., Nelson, C. D., Santos, J. E. P., & Peñagaricano, F. (2022). Gene mapping, gene-set analysis, and genomic prediction of postpartum blood calcium in Holstein cows. *Journal of Dairy Science*, 105(1), 1-10. <https://doi.org/10.3168/jds.2021-20872>

Chikowo, R., Olwande, J., Wanzala, M., Lubungu, M., Ngoma, H., & Sanchez, P. (2022). Opportunities for building resilience of African farming systems. *African Agriculture Status Report 2020*. pp. 15-39. https://www.researchgate.net/profile/Hambulo-Ngoma/publication/359158537_Opportunities_for_Building_Resilience_of_African_Farming_Systems/links/622ae7c43c53d31ba4b921e1/Opportunities-for-Building-Resilience-of-African-Farming-Systems.pdf

Cortes-Beltran, D., & Gonella, A. (2022). Tips for successful artificial insemination in beef cattle. *UF/IFAS Extension* #AN380. <https://doi.org/10.32473/edis-AN380-2021>

de Sousa, J. T. L., Vendramini, J. M. B., Moriel, P., Sanchez, J. M. D., da Silva, H. M., Alencar, N., de Sousa, L. F., de Oliveira, H. M. R., & Palmer, E. A. (2022). Monensin and concentrate supplementation level affect forage ruminal measurements and forage in situ disappearance of bermudagrass fed to beef cattle. *Applied Animal Science*, 38(2), 141-149. <https://doi.org/10.15232/aas.2021-02249>

DeLong, A. N., Swisher, M. E., Chase, C. A., Zhao, X., Liburd, O. E., Gao, Z., Bolques, A., & Gu, S. (2022). Stakeholder-driven adaptive research (SDAR): Better research products. *Renewable Agriculture and Food Systems*, 1–10. <https://doi.org/10.1017/S1742170522000023>

Denis-Robichaud, J., Fernandes, A., Santos, J., & Cerri, R. (2022). Circulating progesterone at insemination and accessory spermatozoa are associated with fertilization and embryo quality

five or six days post insemination in dairy cattle. *Theriogenology*.

<https://doi.org/10.1016/j.theriogenology.2022.04.018>

Dorr, M., Silver, A., Smurlick, D., Arukha, A., **Kariyawasam**, S., Oladeinde, A., Cook, K., & Denagamage, T. (2022). Transferability of ESBL-encoding IncN and Inc11 plasmids among field strains of different Salmonella serovars and Escherichia coli. *Journal of Global Antimicrobial Resistance*, 2022, ISSN 2213-7165. <https://doi.org/10.1016/j.jgar.2022.04.015>

Farzad, R., & Andrade, J. (2022). Selenium and mercury toxicity: The tale of fish. *UF IFAS Extension, FSHN22-4*. <https://doi.org/10.32473/edis-FS437-2022>

Gachamba, S., Xing YanRu, Onofre, K. F. A., **Garrett**, K. A., Miano, D. W., Mwangombe, A., & Sharma, K. (2022). Epidemic networks and potential sources of bacterial wilt infection in a potato seed network in Kenya. *CABI*.

doi: 10.31220/agriRxiv.2022.00117. <https://agrirxiv.org/search-details/?pan=20220018260>

Garlock, T., Asche, F., Anderson, J., Ceballos-Concha, A., Love, D. C., Osmundsen, T. C., Beatriz, R., & Pincinato, M. (2022). Aquaculture: The missing contributor in the food security agenda. *Global Food Security*, 32, 100620, ISSN 2211-9124. <https://doi.org/10.1016/j.gfs.2022.100620>

Garlock, T., Anderson, J. L., Asche, F., Smith, M. D. Camp, E., Chu, J., Lorenzen, K., & Vannuccini, S. (2022). Global insights on managing fishery systems for the three pillars of sustainability. *Fish and Fisheries*. <https://doi.org/10.1111/faf.12660>

Gutierrez, A., **Havelaar, A. H.**, & Schneider, K. R. (2022). Antimicrobial efficacy of un-ionized ammonia (NH₃) against Salmonella Typhimurium in buffered solutions with variable pH, NH concentrations, and urease-producing bacteria. *Microbiology Spectrum*, 1(2022). <https://doi.org/10.1128/spectrum.01850-21>

Harou, A. P., Madajewicz, M., Michelson, H., **Palm, C.**, Amuri, N., Magomba, C., Semoka, J., Tschirhart, K., & Weil, R. (2022). The joint effects of information and financing constraints on technology adoption: Evidence from a field experiment in rural Tanzania. *Journal of Developmental Economics*, 155 (2022), 102707.

<https://doi.org/10.1016/j.jdeveco.2021.102707>

Harvey, K. M., Cooke, R. F., Colombo, E. A., Rett, B., & **Moriel, P.** (2022). Diet supplementation strategies for pregnant cows in the Southeast. *Journal of Animal Science*, 100, 1-2. <https://doi.org/10.1093/jas/skac025>

Homayounfar, M., **Muneeppeerakul, R.**, & Anderies, J. M. (2022). Resilience-performance trade-offs in managing social-ecological systems. *Ecology and Society*, 27(1), 7.

<https://doi.org/10.5751/ES-12892-270107>

Horton, R., **Kiker**, G. A., Trump, B. D., & Linkov, I. (2022). International airports as agents of resilience. *J. Contingencies Crisis Manag*, 2022, 1–5. doi: 10.1111/jccm.12401. <https://onlinelibrary.wiley.com/doi/pdf/10.1111/1468-5973.12401>

Huddell, A., Neill, C., **Palm**, C.A. et al. (2022). Anion exchange capacity explains deep soil nitrate accumulation in Brazilian Amazon croplands. *Ecosystems*. <https://doi.org/10.1007/s10021-022-00747-8>

Jones, J. A. (2022). Adult development and nonprofit board leadership: The clash of self-authoring minds. In Case studies in *Leadership and Adult Development: Applying Theoretical Perspectives to Real World Challenges*. K. N. LaVenía & J. J. May (Eds.). Routledge. doi:10.4324/9780429331503-2

Jones, K., Cunha, F., Jeon, S. J., Pérez-Báez, J., Casaro, S., Fan, P., Liu, T., Lee, S., **Jeong**, K. C., Yang, Y., & Galvão, K. N. (2022). Tracing the source and route of uterine colonization by exploring the genetic relationship of *Escherichia coli* isolated from the reproductive and gastrointestinal tract of dairy cows. *Veterinary Microbiology*, 2022, 109355, ISSN 0378-1135. <https://doi.org/10.1016/j.vetmic.2022.109355>

Júniora, R., Fraise, C., Bashyal, M., **Mulvaney**, M., Seepaul, R., Karrei, Z., Enye, J., Perondi, D., Cerbaro, V., & Boote, K.(2022). *Brassica carinata* as an off-season crop in the southeastern USA: Determining optimum sowing dates based on climate risks and potential effects on summer crop yield. *Agricultural Systems*, 196, 2022, 103344. <https://doi.org/10.1016/j.agsy.2021.103344>

Kiker, G., Senda, T., Boone, R., **Palm**, C., & **Sanchez**, P. (2022). 1s1b: African pastoralist systems may be historically resilient, but can they become circular in a climate-changed future? <https://library.wur.nl/ojs/index.php/CircularWUR2022/article/view/18217>

Lançonni, R., Celeghini, E., **Gonella-Diaza**, A. et al. (2022). Relationship between sperm ubiquitination and equine semen freezability. *Reproduction in Domestic Animals*. <https://doi.org/10.1111/rda.14082>

Linkov, I., Trump, B. & **Kiker**, G. (2022). Diversity and inclusiveness are necessary components of resilient international teams. *Humanit Soc Sci Commun* 9, 115. <https://doi.org/10.1057/s41599-022-01117-4>

Lomeu, A., Shukla, A., **Shukla**, S., **Kiker**, G., Wu, C.-L., Hendricks, G., Boughton, H. E., Sishodia, R., Guzha, A. C., Swain, H. M., Bohlen, P. J., Jenkins, D. G., & Fauth, J. E. (2022). Using biodiversity response for prioritizing participants and service provisions in a payment-for-water-storage program in the Everglades Basin. *Journal of Hydrology*, 127618, ISSN 0022-1694. <https://doi.org/10.1016/j.jhydrol.2022.127618>

Lopez, L., & **Liburd**, O. E. (2022). Can the introduction of companion plants increase biological control services of key pests in organic squash? *Entomologia Experimentalis et Applicata*. <https://doi.org/10.1111/eea.13147>

Lorenzen, K., Camp, E. V., & **Garlock**, T. M. (2022). Natural mortality and body size in fish populations. *Fisheries Research*, 252(2022), 106327. ISSN 0165-7836. <https://doi.org/10.1016/j.fishres.2022.106327>

Menta, P. R., Machado, V. S., Piñeiro, J. M., Thatcher, W. W., **Santos**, J. E. P., & Vieira-Neto, A. (2022). Heat stress during the transition period is associated with impaired production, reproduction, and survival in dairy cows. *Journal of Dairy Science*, 2022, ISSN 0022-0302. <https://doi.org/10.3168/jds.2021-21185>

Mezzalira Pincinato, R. B., Gasalla, M. A., **Garlock**, T., **Anderson**, J. L. (2022). Market incentives for shark fisheries. *Marine Policy*, 139(105031), ISSN 0308-597X. <https://doi.org/10.1016/j.marpol.2022.105031>

McKune, S., **Palm**, C., **Hendrickx**, S., **Havelaar**, A., Mantegazza, L., **Kiker**, G., **Dahl**, G., Jones, J., Sabo Atwood, T., Hernandez, J., & **Adesogan**, A. (2022). 1s2: Circularity cannot be achieved without one health integration. <https://library.wur.nl/ojs/index.php/CircularWUR2022/article/view/18227>

Monteiro, H. F., Lelis, A. L. J., Fan, P., Calvo Agostinho, B., Lobo, R. R., Arce-Cordero, J. A., Dai, X., **Jeong**, K. C., & **Faciola**, A. P. (2022). Effects of lactic acid-producing bacteria as direct-fed microbials on the ruminal microbiome. *Journal of Dairy Science*, 2022, ISSN 0022-0302. <https://doi.org/10.3168/jds.2021-21025>

Moor, J., Ropicki, A., **Anderson**, J. L., & **Asche**, F. (2022). Stochastic modeling and financial viability of mollusk aquaculture. *Aquaculture*, 552, 2022, 737963, ISSN 0044-8486. <https://doi.org/10.1016/j.aquaculture.2022.737963>

Navarrete, I., López, V., Borja, R., Oyarzún, P., **Garrett**, K. A., Almekinders, C., Xing, Y., Struik, P., & Andrade-Piedra, J. (2022). Variety and on-farm seed management practices affect potato seed degeneration in the tropical highlands of Ecuador. *Agricultural Systems*, 198, 103387. ISSN 0308-521X. <https://doi.org/10.1016/j.agsy.2022.103387>

Nelson, E. J., **McKune**, S. L., Ryan, K. A., et al. (2022). Antigen vs RT-PCR tests for screening quarantined students in Florida during the COVID-19 pandemic SARS-CoV-2 Delta variant surge. *JAMA Pediatr*. doi:10.1001/jamapediatrics.2022.0080

Nguyen, L., Gao, Z., **Anderson**, J. L., & Love, D. C. (2022). Consumers' willingness to pay for information transparency at casual and fine dining restaurants, *International Journal of Hospitality Management*, 100(Jan 2022), 103104, ISSN 0278-4319, <https://doi.org/10.1016/j.ijhm.2021.103104>

Nguyen, L., **Kassas**, B., House, L., & Gao, Z. (2022). Understanding consumer knowledge, perception, and attitudes towards irradiated foods: Insights for the mango industry. *Food and Resource Economics Department, University of Florida*. https://www.mango.org/wp-content/uploads/2022/03/Report_Food-Irradiation.pdf

Oh, W., Carmona-Cabrero, A., Muñoz-Carpena, R., & **Muneepeerakul**, R. (2022). On the interplay among multiple factors: Effects of factor configuration in a proof-of-concept migration agent-based model. *Journal of Artificial Societies and Social Simulation*, 25(2), 7. <https://www.jasss.org/25/2/7/7.pdf>

Oh, W. S., **Muneepeerakul**, R., Rubenstein, D., Homayounfar, M., & Levin, S. (2022). Water and conflict on internal displacement: Network analysis of Somalia case. *EGU General Assembly 2022*, Vienna, Austria, 23–27 May 2022, EGU22-10886. <https://doi.org/10.5194/egusphere-egu22-10886>

Orsini, J., & **Coers**, N. (2022). How faculty mentoring behavior influences the development of leadership self-efficacy. *Journal of Leadership Education*, Jan. 2022, pp. 114-137. doi: 10.12806/V21/I1/R8

Osmundsen, T. C., Olsen, M. S., Gauteplass, A., & **Asche**, F. (2022). Aquaculture policy: Designing licenses for environmental regulation. *Marine Policy*, 138(2022), 104978. <https://doi.org/10.1016/j.marpol.2022.104978>

Palmer, E. A., Vedovatto, M., Oliveira, R. A., Ranches, J., Vendramini, J. M. B., Poore, M. H., Martins, T., Binelli, M., Arthington, J. D., & **Moriel**, P. (2022). Timing of maternal supplementation of dried distillers grains during late gestation influences postnatal growth, immunocompetence, and carcass characteristics of *Bos indicus*-influenced beef calves. *Journal of Animal Science*, 2022, skac022. <https://doi.org/10.1093/jas/skac022>

Paul, L. A., **Savchenko**, O. M., Kecinski, M., & Messer, K. D. (2022). Nudge or sludge? An in-class experimental auction illustrating how misunderstood scientific information can change consumer behavior. 4 (2022): 10. <https://udspace.udel.edu/handle/19716/30776>

Persa, R., Graef, G. L., Specht, J. E., **Rios**, E., Messina, C. D., & Jarquin, D. (2022). Enhancing genomic prediction models for forecasting days to maturity in soybean genotypes using site-specific and cumulative photoperiod data. *Agriculture* 2022(12), 545. <https://doi.org/10.3390/agriculture12040545>

Persad, A. K., Fahmy, H. A., Anderson, N., Cui, J., Topalcengiz, Z., Jeamsripong, S., Spanninger, P. M., Buchanan, R. L., Kniel, K. E., Jay-Russell, M. T., **Danyluk**, M. D., Rajashekara, G., & LeJeune, J. T. (2022). Identification and subtyping of *Salmonella* isolates using matrix-assisted laser desorption–ionization time-of-flight mass spectrometry (MALDI-TOF). *Microorganisms*, 2022(10), 688. <https://doi.org/10.3390/microorganisms10040688>

Perondi, D., Boote, K., de Souza Noia Jr., R., **Mulvaney**, M., Iboyi, J., & Fraisse, C. (2022). Assessment of soybean yield variability in the Southeastern US with the calibration of genetic coefficients from variety trials using CROPGRO-Soybean. *Agronomy Journal*.
<https://doi.org/10.1002/agj2.20995>

Ravelo, A. D., **Vyas**, D., Ferraretto, L. F., & **Faciola**, A. (2022). Effects of sucrose and lactose as partial replacement to corn in lactating dairy cow diets: A review.
<https://watermark.silverchair.com>

Roll, K. H., **Asche**, F., & Bjørndal, T. (2022). The effect of introducing fuel tax to the Norwegian fishery industry. *Marine Policy*, 135, 104829, ISSN 0308-597X.
<https://doi.org/10.1016/j.marpol.2021.104829>

Ruiz-Menjivar, J., Johns, T., Counts, T., Liu, Y., & **Jones**, J. A. (2022). Profiles in workplace giving: A cluster analysis of 'types' of givers within a public university. *Voluntary Sector Review*. Policy Press. <https://doi.org/10.1332/204080521X16359450188693>

Sarmikasoglou, E., **Faciola**, A. P. (2022). Ruminal bacteria lipopolysaccharides: An immunological and microbial outlook. *J Animal Sci Biotechnol* 13(41).
<https://doi.org/10.1186/s40104-022-00692-5>

Sanchez, J., Vendramini, J., Silveira, M., Kohmann, M., Silva, H., **Moriel**, P., Henry, D., & Henry, F. (2022). Ruminal digestibility and in-vitro methane emissions of native plant species in subtropical rangelands. *Rangeland Ecology & Management*, 82(2022), 42-50.
<https://doi.org/10.1016/j.rama.2022.02.002>

Serra, R., **Ludgate**, N., Dowhaniuk, K., **McKune**, S., & **Russo**, S. (2022). Beyond the gender of the livestock holder: Learnings from intersectional analyses of PPR vaccine value chains in Nepal, Senegal, and Uganda. *Animals*, 12, 241. <https://doi.org/10.3390/ani12030241>

Stofer, K., Fulton, J., Nesbitt, H., Prizzia, A., **Garrett**, K., & Rosario, J. (2022). Initial social network analysis of producers working towards sustainability suggests weak ties and potential fragmentation. *Advancements in Agricultural Development*, 3(1), 4-18.
<https://doi.org/10.37433/aad.v3i1.141>

Stolarz, J. C., **Shelnutt**, K. P., Nikolai, A., & Wallau, A., S. (2022). Physical activity for families. *UF IFAS Extension* # FCS8922. <https://doi.org/10.32473/edis-FY1192-2022>

Teixeira da Silva, J. A., Moradzadeh, M., Adjei, K. O. K., Owusu-Ansah, C. M., **Balehegn**, M., Faúndez, E. I., Janodia, M. D., Al-Khatib, A. (2022). An integrated paradigm shift to deal with 'predatory publishing.' *The Journal of Academic Librarianship*, 48(1).
<https://doi.org/10.1016/j.acalib.2021.102481>

Topalcengiz, Z., & **Danyluk**, M. D. (2022). Assessment of contamination risk from fecal matter presence on fruit and mulch in the tomato fields based on generic *Escherichia coli* population. *Food Microbiology*, 103, 2022, 103956, ISSN 0740-0020.

<https://doi.org/10.1016/j.fm.2021.103956>

Turna, N., **Havelaar**, A., **Adesogan**, A., & Wu, F. (2022). Aflatoxin M1 in milk does not contribute substantially to global liver cancer incidence. *The American Journal of Clinical Nutrition*, 2022;, nqac033. <https://doi.org/10.1093/ajcn/nqac033>

Vazquez, K., & **Muneepeerakul**, R. (2022). Resilience of a complex watershed under water variability: A modeling study. *Sustainability*, 14, 1948. <https://doi.org/10.3390/su14041948>

Vedovatto, M., Leccioli, R. B., de Assis Lima, E., Rocha, R., Coelho, R., **Moriel**, F., et al. (2022). Impacts of body condition score at beginning of fixed-timed AI protocol and subsequent energy balance on ovarian structures, estrus expression, pregnancy rate and embryo size of *Bos indicus* beef cows. *Livestock Science*, 256, 2022, 104823, ISSN 1871-1413.

<https://doi.org/10.1016/j.livsci.2022.104823>

Vinyard, J. R., Peñagaricano, F. & **Faciola**, A. P. (2022). The effects of course format, sex, semester, and institution on student performance in an undergraduate animal science course. *Translational Animal Science*, txac004. <https://doi.org/10.1093/tas/txac004>

Walther, O. (2022). Security and trade in African borderlands: An introduction. *Journal of Borderlands Studies*. <https://doi.org/10.1080/08865655.2022.2049350>

Warner, L. A., **Diaz**, J. M., Osborne, E. W., Oi, F., & Reed, C. N. (2022). Evaluating connections between personal well-being and adoption of landscape best management practices: An audience segmentation study, *Journal of Environmental Management*, 302, Part A.

<https://doi.org/10.1016/j.jenvman.2021.113959>