

UF/IFAS 2024 Annual List of Peer-reviewed Journal Articles

- Abasilim, C., Friedman, L. S., Martin, M. C., Madigan, D., Perez, J., Morera, M., Tovar, A., Roka, F., Xiuhtecutli, N., Forst, L., & Monaghan, P. (2024). Risk factors associated with indicators of dehydration among migrant farmworkers. *Environmental Research*, 251(2), #118633.
- Abd-Elgawad, M. M. M., Duncan, L. W., Hammam, M. M. A., El-Borai, F., & Shehata, I. E. (2024). Effect of mulching manures and use of *Heterorhabditis bacteriophora* on strawberry fruit yield *Temnorhynchus baal* and *Meloidogyne javanica* under field conditions. *Arab Journal for Plant Protection*, 42(3), 306-317.
- Abdelzaher, R. A. E., Beleski, D. G., Amer, A. M., Salaheldin, S., Eid, S. A., & Vendrame, W. A. (2024). Assessment of biomass accumulation, total phenolic and flavonoid contents and antioxidant activity of callus culture of avocado (*Persea americana*. Mill) cv. Hass. *Middle East Journal of Agriculture Research*, 13(2), 450-461.
- Abdelzaher, R. A. E., Hamad, A. S. A., Amer, A. M., Hosny, S. S., & Vendrame, W. A. (2024). Micropropagation of coffee robusta plants (*Coffea canephora*) through shoot tip explants. *Current Science International*, 13(2), 252-262.
- Abrahamsen, E. B., Moen, V., & Asche, F. (2024). Class size and its influence on examination results in higher education. *Discover Education*, 3(1), #154.
- Acevedo León, N. F., Jaramillo, P. L., Gabela, C. D., Boren-Alpízar, A., Andrukonis, A., Schmidt, M., McGlone, J., & Garcia, A. (2024). Hispanic worker attitudes toward pig euthanasia on U.S. farms. *Frontiers in Veterinary Science*, 11, #1281102.
- Acevedo, M. A., Fankhauser, C., González, L., Quigg, M., Gonzalez, B., & Papa, R. (2024). Recolonization of secondary forests by a locally extinct Caribbean anole through the lens of range expansion theory. *Ecological Applications*, 34(3), #e2960.
- Acosta-Rangel, A., Agehara, S., & Rechcigl, J. (2024). Double-season production of hops (*Humulus lupulus* L.) with photoperiod manipulation in a subtropical climate. *Scientia Horticulturae*, 332, #113177.
- Acuña, I., Andrade-Piedra, J., Andrivon, D., Armengol, J., Arnold, A. E., Avelino, J., Bandyopadhyay, R., Bihon Legesse, W., (+ 82 authors including Dewdney, M. M., Garrett, K. A.), & Zhou, C. (2023). A global assessment of the state of plant health. *Plant Disease*, 107(12), 3649-3665.
- Adams, A. E., Saville, A., & Shriver, T. E. (2024). Folk art, storytelling, and space: Collective memory and pesticide exposure. *Environment and Planning E: Nature and Space*, 7(3), 1299-1317.

- Adedaja, O. A., & Mallinger, R. E. (2024). Can trait matching inform the design of pollinator-friendly urban green spaces? A review and synthesis of the literature. *Ecosphere*, 15(1), #e4735.
- Adeleye, V. O., Seal, D. R., Martini, X., Meru, G., & Liburd, O. E. (2024). Characterization of the spatial distribution of the pepper weevil, *Anthonomus eugenii* Cano (Col.: Curculionidae), in pepper fields in South Florida. *Insects*, 15(8), #579.
- Adunola, P., Ferrão, L. F. V., Benevenuto, J., Azevedo, C. F., & Munoz, P. R. (2024). Genomic selection optimization in blueberry: Data-driven methods for marker and training population design. *The Plant Genome*, 17(3), #e20488.
- Adunola, P., Tavares Flores, E., Azevedo, C., Casorzo, G., Ghimire, L., Ferrão, L. F. V., & Munoz, P. R. (2024). Phenomic-assisted selection: Assessment of the potential of near-infrared spectroscopy for blueberry breeding. *The Plant Phenome Journal*, 7(1), #e70010.
- Adunola, P., Tavares Flores, E., Riva-Souza, E. M., Ferrão, M. A. G., Senra, J. F. B., Comério, M., Espindula, M. C., Verdin Filho, A. C., Volpi, P. S., Fonseca, A. F. A., Ferrão, R. G., Munoz, P. R., & Ferrão, L. F. V. (2024). A comparison of genomic and phenomic selection methods for yield prediction in *Coffea canephora*. *The Plant Phenome Journal*, 7(1), #e20109.
- Adunola, P. M., Ferrão, L. F. V., Azevedo, C. F., Nunez, G. H., & Munoz, P. R. (2024). The effect of environmental variables on the genotyping-by-environment interaction in blueberry. *Euphytica*, 220(7), #113.
- Aenlle, J. V., Loizzo, J. L., Lundy, L. K., Folta, F. M., & Bunch, J. C. (2024). Scientists' side of the microphone: An examination of agricultural and natural resources podcast guests' experiences. *Advancements in Agricultural Development*, 5(3), 39-54.
- Aenlle, J. V., Stone, W., Beattie, P. N., & Loizzo, J. (2024). Mobile podcast production: How to educate and engage through online audio. *Journal of Extension*, 62(3), #3.
- Afzal, O., Ahmed, M., Hassan, F., Shabbir, G., Ahmed, S., & Hoogenboom, G. (2024). CSM-CROPGRO model to simulate safflower phenological development and yield. *International Journal of Biometeorology*, 68(6), 1213-1228.
- Agarwal, M., Lamb, R. W., Smith, F., & Witman, J. D. (2024). Distribution and ecology of shallow-water black corals across a depth gradient on Galápagos rocky reefs. *Coral Reefs*, 43(3), 733-745.
- Agha, H. I., Endelman, J. B., Chitwood-Brown, J., Clough, M., Coombs, J., De Jong, W. S., Douches, D. S., Higgins, C. R., Holm, D. G., Novy, R., Resende, M. F. R., Sathuvalli, V., Thompson, A. L., Yench, G. C., Zotarelli, L., & Shannon, L. M. (2024). Genotype-

by-environment interactions and local adaptation shape selection in the US National Chip Processing Trial. *Theoretical and Applied Genetics*, 137(5), #99.

- Agyin-Birikorang, S., Adu-Gyamfi, R., Kadyampakeni, D. M., Chambers, R. A., Tindjina, I., & Dauda, H. W. (2024). Lime microdosing: A new liming strategy for increased productivity in acid soils. *Soil Science Society of America Journal*, 88(1), 136-151.
- Agyin-Birikorang, S., Boubakry, C., Kadyampakeni, D. M., Adu-Gyamfi, R., Chambers, R. A., Tindjina, I., & Fuseni, A.-R. A. (2024). Sulfur availability minimizes nitrate leaching losses in vulnerable agricultural soils. *Journal of Plant Nutrition*, 47(15), 2389-2405.
- Agyin-Birikorang, S., Boubakry, C., Kadyampakeni, D. M., Adu-Gyamfi, R., Chambers, R. A., Tindjina, I., & Fuseni, A. R. A. (2024). Synergism of sulfur availability and agronomic nitrogen use efficiency. *Agronomy Journal*, 116(2), 753-764.
- Ahlawat, Y. K., Ghimire, U., Li, S., Timilsena, P., Pliakoni, E. D., Brecht, J. K., & Liu, T. (2024). Postharvest senescence profiling in broccoli using tandem mass yag-based proteomics. *Vegetable Research*, 4, #e010.
- Ahmad, W., Nepal, J., Xin, X., & He, Z. (2023). Agronomic Zn biofortification through nano ZnO application enhanced growth, photosystem efficiency, Zn and P nutrition in maize. *Archives of Agronomy and Soil Science*, 69(14), 3328-3344.
- Ahmed, M. Z., McKenzie, C. L., & Osborne, L. S. (2024). Arthropod and mollusk pests of hemp, *Cannabis sativa* (Rosales: Cannabaceae), and their indoor management plan in Florida. *Journal of Integrated Pest Management*, 15(1), 1-22.
- Ahn, S.-J., Rice, K. C., & Culp, D. J. (2024). Cariogenic potential of the *Streptococcus mutans* Cid/Lrg system: An in vivo animal case study. *Microbiology Spectrum*, 12(12), #e01660-24.
- Ahrens, A. P., Hyötyläinen, T., Petrone, J. R., Igelström, K., George, C. D., Garrett, T. J., Orešič, M., Triplett, E. W., & Ludvigsson, J. (2024). Infant microbes and metabolites point to childhood neurodevelopmental disorders. *Cell*, 187(8), 1853-1873.
- Ajayi, D., & Kelsey, K. D. (2024). Collaboration that matters: Unpacking 15 years of land-grant university research to mitigate a devastating pest in the United States. *Journal of Southern Agricultural Education Research*, 74, 1-20.
- Akinsuyi, O. S., Xhumari, J., Ojeda, A., & Roesch, L. F. W. (2024). Gut permeability among astronauts during space missions. *Life Sciences in Space Research*, 41, 171-180.
- Aknadibossian, V., Freitas-Astúa, J., Vidalakis, G., Thermo, J.-P., Licciardello, G., Catara, A., Batista, L., Pérez, J. M., Peña, I., Zamora, V., & Folimonova, S. Y. (2024). Further

investigation on citrus phantom disorders of unconfirmed viral etiology. *Journal of Citrus Pathology*, 11(2), #C411263792.

- Alam, E., Lee, S., Peres, N. A., & Whitaker, V. M. (2024). Marker-assisted pyramiding of charcoal rot resistance loci in strawberry. *HortScience*, 59(9), 1328-1334.
- Alam, E., Moyer, C., Verma, S., Peres, N. A., & Whitaker, V. M. (2024). Exploring the genetic basis of resistance to *Neopestalotiopsis* species in strawberry. *The Plant Genome*, 17(2), #e20477.
- Alarie, Y., Michat, M. C., Short, A. E. Z., & Watts, C. H. S. (2024). Larval ground plan of *Platynectes Régimbart*, 1879 reconsidered: Description of the larvae of three species with phylogenetic considerations (Coleoptera: Adephaga, Dytiscidae). *Zootaxa*, 5458(3), 301-331.
- Aldrich, D. J., Taylor, M., Bester, R., El-Mohtar, C. A., Burger, J. T., & Maree, H. J. (2024). Applying infectious clones and untargeted metabolite profiling to characterize citrus tristeza virus-induced stem pitting in citrus. *Scientific Reports*, 14, #28490.
- Aldridge, R. L., Alto, B. W., Roxanne Connelly, C., Okech, B., Siegfried, B., Eastmond, B. H., Alomar, A. A., & Linthicum, K. J. (2024). Does prior exposure to larvicides influence dengue virus susceptibility in *Aedes aegypti* (Diptera: Culicidae)? *Journal of Medical Entomology*, 61(1), 166-174.
- Alekaram, S., Hemmati, S. A., Ziaee, M., & Stelinski, L. L. (2024). Evaluation of diets from various maize hybrids reveals potential tolerance traits against *Spodoptera littoralis* (Boisd) as measured by developmental and digestive performance. *Bulletin of Entomological Research*, 114(5), 642-651.
- Alexander, L., Wu, X., & Gouker, F. (2024). Production and verification of novel *Osmanthus* hybrids. *Frontiers in Horticulture*, 3, #1382450.
- Alford, K. R., Stedman, N. L. P., Bunch, J. C., Baker, S., & Roberts, T. G. (2024). Exploring systems thinking typologies and paradigms. *Sage Open*, 14(2), 1-15.
- Alford, K. R., Stedman, N. L. P., Bunch, J. C., Baker, S., & Roberts, T. G. (2024). A paradigm shift toward systems thinking in colleges of agriculture. *NACTA Journal*, 68(1), 227-236.
- Alhaddad, H., Powell, B. B., Pinto, L. D., Sutter, N., Brooks, S. A., & Alhajeri, B. H. (2024). Geometric morphometrics of face profile across horse breeds and within Arabian horses. *Journal of Equine Veterinary Science*, 132, #104980.
- Ali, M., Shafiq, M., Haider, M. Z., Sami, A., Alam, P., Albalawi, T., Kamran, Z., Sadiq, S., Hussain, M., Shahid, M. A., Jeridi, M., Ashraf, G. A., Manzoor, M. A., & Sabir, I. A.

- (2024). Genome-wide analysis of *NPR1*-like genes in citrus species and expression analysis in response to citrus canker (*Xanthomonas axonopodis* pv. *citri*). *Frontiers in Plant Science*, 15, #1333286.
- Allen, D. C., Larson, J., Murphy, C. A., Garcia, E. A., Anderson, K. E., Busch, M. H., Argerich, A., Belskis, A. M., Higgins, K. T., Penaluna, B. E., Saenz, V., Jones, J., & Whiles, M. R. (2024). Global patterns of allochthony in stream–riparian meta-ecosystems. *Ecology Letters*, 27(3), #e14401.
- Almendra-Martín, L., Judge, J., Monsivaís-Huertero, A., & Liu, P.-W. (2024). Evaluating uncertainties in an SM-based inversion algorithm for irrigation estimation in a subtropical humid climate. *Water*, 16(17), #2445.
- Alrabia, S., & Mylavarapu, R. S. (2024). Water productivity for drip irrigated tomatoes produced in conventional and compact bed geometries. *Proceedings of the Florida State Horticultural Society*, 137.
- Alvi, M., Ward, P., Makhija, S., & Spielman, D. J. (2024). Do grassroots interventions relax behavioural constraints and improve adoption of nutrition-sensitive food production systems? *Australian Journal of Agricultural and Resource Economics*, 68(1), 101-124.
- Alwaneen, W. S., Tahir, M., Avery, P. B., Wakil, W., Kavallieratos, N. G., Eleftheriadou, N., Boukouvala, M. C., Rasool, K. G., Husain, M., & Aldawood, A. S. (2024). Initial evaluation of the entomopathogenic fungi *Beauveria bassiana* and *Metarhizium robertsii*, and the entomopathogenic nematode *Heterorhabditis bacteriophora*, individually and in combination against the noxious *Helicoverpa armigera* (Lepidoptera: Noctuidae). *Agronomy*, 14(7), #1395.
- Amanambu, A. C., Mossa, J., Chen, Y.-H., Deitch, M., & Alruzuq, A. (2024). Damming consequences: Quantifying the effects on channel geometry and floodplain inundation. *Catena*, 235, #107634.
- Amantayev, B., Shelia, V., Kipshakbayeva, G., Shestakova, N., Gordeyeva, Y., Kulzhabayev, Y., Zhanbyrshina, N., Lutschak, P., Absattarova, A., Kurishbayev, A., & Hoogenboom, G. (2024). Effect of fertilizer, sowing date, and seeding rate on biomass and yield of pea (*Pisum sativum* L.) grown under dry steppe and steppe conditions. *Agriculture*, 14(12), #2367.
- Ames, Z. R., Brecht, J. K., Olmstead, M. A., Tieman, D., & Sims, C. A. (2024). Nitrogen fertilization rates in a subtropical peach orchard: Effect on fruit nutritional value and flavor. *JSFA Reports*, 4(3), 148-162.
- An, J.-P., Li, J., Rodrigues-Stuart, K., Dewdney, M. M., Ritenour, M. A., & Wang, Y. (2024). Machine learning-based metabolomics analysis reveals the early biomarkers for

Diplodia stem-end rot in grapefruit caused by *Lasiodiplodia theobromae*. *Postharvest Biology and Technology*, 212, #112868.

- An, J.-P., Liu, X., & Wang, Y. (2024). Discovery of bitter masking compounds from allspice (*Pimenta dioica*) using sensory guided isolation. *Food Chemistry: X*, 22, #101426.
- Anderson, S. E., Hahn, P., Gonzalez, G., & Mallinger, R. E. (2024). Land-use change alters specialist bee diet and drives body size declines. *Landscape Ecology*, 39(6), #115.
- Anzalone, S. E., Fuller, N. W., Hartz, K. E. H., Whitley, G. W., Magnuson, J. T., Schlenk, D., Acuña, S., Whiles, M. R., & Lydy, M. J. (2024). The roles of diet and habitat use in pesticide bioaccumulation by juvenile Chinook salmon: Insights from stable isotopes and fatty acid biomarkers. *Archives of Environmental Contamination and Toxicology*, 86(3), 234-248.
- Arachchige, S. M., Razzaq, A., Dai, H.-Y., & Wang, J. (2024). Confronting heat stress in crops amid global warming: Impacts, defense mechanisms, and strategies for enhancing thermotolerance. *Crop Breeding, Genetics and Genomics*, 6(4), #e240011.
- Araghi, A., & Martinez, C. J. (2024). Evaluation of CRU-JRA gridded meteorological dataset for modeling of wheat production systems in Iran. *International Journal of Biometeorology*, 68(6), 1201-1211.
- Arce-Cordero, J. A., Bahman, A., Monteiro, H. F., Lobo, R. R., Sarmikasoglou, E., Vinyard, J., Johnson, M., & Faciola, A. P. (2024). Effects of amino resin-treated and heat-treated soybean meal on ruminal fermentation, nutrient digestion, and nitrogen partitioning in continuous culture. *Journal of Dairy Science*, 107(10), 7879-7890.
- Arias-Esquivel, A. M., Jeong, K. C., Fan, P., Lance, J., DeNotta, S., & Wickens, C. (2024). Gut microbiome characteristics of horses with history of cribbing behavior: An observational study. *Journal of Veterinary Behavior*, 72, 40-50.
- Arias-Esquivel, A. M., Vasco, A. C. C. d. M., Lance, J., Warren, L. K., Rodriguez-Campos, L. A., Lee, M. C., Rodriguez, C. N., & Wickens, C. L. (2024). Investigating the gastrointestinal physiology of mature horses with and without a history of cribbing behavior in response to feeding a digestive support supplement. *Journal of Equine Veterinary Science*, 132, #104964.
- Aristizabal, F., Chegini, T., Petrochenkov, G., Salas, F., & Judge, J. (2024). Effects of high-quality elevation data and explanatory variables on the accuracy of flood inundation mapping via height above nearest drainage. *Hydrology and Earth System Sciences*, 28(6), 1287-1315.
- Arshad, U., & Santos, J. E. P. (2024). Characterization of a model to induce hyperlipidemia in feed-restricted dairy cows. *JDS Communications*, 5(1), 77-82.

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- Arshad, U., Zimpel, R., Husnain, A., Poindexter, M. B., & Santos, J. E. P. (2024). Effect of rumen-protected choline on fat digestibility and lymph metabolome in dairy cows. *Journal of Animal Physiology and Animal Nutrition*, 108(4), 950-964.
- Aryal, P., Sollenberger, L. E., & Dubeux, J. C. B. (2024). Nitrogen application during rhizoma peanut shoot emergence affects planting-year nitrogen fixation. *Grass and Forage Science*, 79(3), 353-365.
- Asbani, N., Cherry, R. H., Beuzelin, J. M., Sandhu, H. S., Liburd, O. E., & Nuessly, G. S. (2024). Within-plant distribution and rapid assessment of sugarcane rust mite population on sugarcane canopy. *Acarologia*, 64(3), 733-744.
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- Aslam, H. M. U., Chikh-Ali, M., Zhou, X.-G., Zhang, S., Harris, S., Chanda, A. K., Riaz, H., Hameed, A., Aslam, S., & Killiny, N. (2024). Epigenetic modulation of fungal pathogens: A focus on *Magnaporthe oryzae*. *Frontiers in Microbiology*, 15, #1463987.
- Ataide, L. M. S., Della Vechia, J. F., Ochoa, R., Carrillo, D., & Revynthi, A. M. (2024). Influence of temperature on the population size of *Aceria litchii* (Acari: Eriophyidae) and the development of its galls. *Experimental and Applied Acarology*, 92(1), 13-25.
- Ataide, L. M. S., Greene, A. D., Cloonan, K. R., Gill, M. A., Vargas, G., Tabanca, N., Reyes-Arauz, I., Velazquez-Hernandez, Y., & Revynthi, A. M. (2024). Exploring market-available pheromone lures and traps for monitoring *Anthonomus testaceosquamosus* (Coleoptera: Curculionidae). *Journal of Economic Entomology*, 117(4), 1396-1405.
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- Aun, M. A., Farnese, F., Loram-Lourenço, L., de Abreu, I. M. P. G., Silva, B. R. A., Freitas, J. C. E., Filho, V. M. A., Silva, F. G., Franco, A. C., Hammond, W. M., Cochard, H., &

- Menezes-Silva, P. E. (2024). Evidence of combined flower thermal and drought vulnerabilities portends reproductive failure under hotter-drought conditions. *Plant, Cell & Environment*, 47(6), 1971-1986.
- Austin, C. C., Mondell, C. N., Clark, D. G., & Wilkie, A. C. (2024). Kenaf: Opportunities for an ancient fiber crop. *Agronomy*, 14(7), #1542.
- Avery, P. B., Barbeau, E., Ayala, L., & Lambdin, P. L. (2024). Assessing the efficacy of mass releases of *Podisus maculiventris* treatments for biocontrol of Mexican bean beetle populations infesting snap beans. *Annals of Agricultural and Crop Sciences*, 9(2), #1153.
- Ayana, G., Dese, K., Abagaro, A. M., Jeong, K. C., Yoon, S.-D., & Choe, S.-w. (2024). Multistage transfer learning for medical images. *Artificial Intelligence Review*, 57(9), #232.
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- Ayika, M.-G., Rosano, A., Valiente, J., Chakrabarti, S., Rollins, J. A., & Dhillon, B. (2024). Characterizing the palm pathogenic *Thielaviopsis* species from Florida. *Journal of Fungi*, 10(4), #247.
- Azevedo, C. F., Ferrão, L. F. V., Benevenuto, J., de Resende, M. D. V., Nascimento, M., Nascimento, A. C. C., & Munoz, P. R. (2024). Using visual scores for genomic prediction of complex traits in breeding programs. *Theoretical and Applied Genetics*, 137(1), #9.
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- Backstrom, L. J., Callaghan, C. T., Leseberg, N. P., Sanderson, C., Fuller, R. A., & Watson, J. E. M. (2024). Assessing adequacy of citizen science datasets for biodiversity monitoring. *Ecology and Evolution*, 14(2), #e10857.
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- Bahder, B. W., Myrie, W., Helmick, E. E., & Bartlett, C. R. (2024). A new species of planthopper in the genus *Patara* (Hemiptera: Auchenorrhyncha: Fulgoroidea: Derbidae) from Central Jamaica. *Zootaxa*, 5463(3), 429-440.
- Bahder, B. W., Randretsiferana, S. A., Randretsiferana, A., Stroiński, A., Łukasik, P., Bartlett, C. R., Pilet, F., & Hasinjaka, R. H. H. (2024). A new species of planthopper in the genus *Eumyndus* (Hemiptera: Cixiidae) from palms in Eastern Madagascar and molecular evidence for the synonymy of *Eumyndus kraussi* and *Eumyndus metcalfi*. *Zootaxa*, 5514(4), 338-352.
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