

Jarrod S. Doucette

Director of Data Services
College of Agriculture, Purdue University
West Lafayette, Indiana, USA
Email: jdoucett@purdue.edu
Phone: (765) 494-3573

[Google Scholar Profile](#)

[Research Gate Profile](#)

ORCID ID: 0000-0003-4027-2417

Education

- 2014** ME, Geospatial Information Science
SUNY Environmental Science and Forestry, Syracuse, New York
- 2010** B.S. Geology
Department of Geology
University of Delaware, Newark, Delaware

Work Experience

- 2022-Current Director, College of Agriculture Data Services, Purdue University
- 2020 - 2022 Lead Research Analyst, College of Agriculture Data Services, Purdue University
- 2016 - 2019 Academic IT Specialist, Dept. of Forestry & Natural Resources, Purdue University
- 2016 - 2019 GIS & Database Specialist, Dept. of Forestry & Natural Resources, Purdue University

Research Experience

- 2012-2014 Research Assistant, Environmental Resource Engineering Department, SUNY ESF

Selected Publications

- Graham, J. R., Montes, M. E., Pedrosa, V. B., Doucette, J., Taghipoor, M., Araujo, A. C., ... & Brito, L. F. (2024). Genetic parameters for calf feeding traits derived from automated milk feeding machines and number of bovine respiratory disease treatments in North American Holstein calves. *Journal of Dairy Science*, 107(4), 2175-2193. <https://doi.org/10.3168/jds.2023-24208>
- Pedrosa, V. B., Chen, S. Y., Gloria, L. S., Doucette, J. S., Boerman, J. P., Rosa, G. J., & Brito, L. F. (2024). Machine learning methods for genomic prediction of cow behavioral traits measured by automatic milking systems in North American Holstein cattle. *Journal of Dairy Science*. <https://doi.org/10.3168/jds.2023-24082>
- Chen, S. Y., Gloria, L. S., Pedrosa, V. B., Doucette, J., Boerman, J. P., & Brito, L. F. (2024). Unraveling the genomic background of resilience based on variability in milk yield and milk production levels in North American Holstein cattle through genome-wide association study and Mendelian randomization analyses. *Journal of Dairy Science*, 107(2), 1035-1053. <https://doi.org/10.3168/jds.2023-23650>
- Chen, S. Y., Boerman, J. P., Gloria, L. S., Pedrosa, V. B., Doucette, J., & Brito, L. F. (2023). Genomic-based genetic parameters for resilience across lactations in North American Holstein cattle based on variability in daily milk yield records. *Journal of Dairy Science*, 106(6), 4133-4146. <https://doi.org/10.3168/jds.2022-22515>
- Pedrosa, V. B., Boerman, J. P., Gloria, L. S., Chen, S. Y., Montes, M. E., Doucette, J. S., & Brito, L. F. (2023). Genomic-based genetic parameters for milkability traits derived from automatic milking systems in North American Holstein cattle. *Journal of Dairy Science*, 106(4), 2613-2629. <https://doi.org/10.3168/jds.2022-22515>
- Montes, M. E., Doucette, J., & Boerman, J. P. (2022, January). An innovative approach to analyzing behavior in an automated calf feeding system using social network analysis. In *JOURNAL OF DAIRY SCIENCE*

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Abdel-Moneim, A., Deegan, D., Gao, J., De Perre, C., Doucette, J. S., Jenkinson, B., ... & Sepúlveda, M. S. (2017). Gonadal intersex in smallmouth bass *Micropterus dolomieu* from northern Indiana with correlations to molecular biomarkers and anthropogenic chemicals. *Environmental Pollution*, 230, 1099-1107.

<https://doi.org/10.1016/j.envpol.2017.07.048>

Pijanowski, B. C., Tayyebi, A., Doucette, J., Pekin, B. K., Braun, D., & Plourde, J. (2014). A big data urban growth simulation at a national scale: configuring the GIS and neural network based land transformation model to run in a high performance computing (HPC) environment. *Environmental Modelling & Software*, 51, 250-268. <https://doi.org/10.1016/j.envsoft.2013.09.015>

Doucette, J. S., Stiteler, W. M., Quackenbush, L. J., & Walton, J. T. (2009). A rules-based approach for predicting the eastern hemlock component of forests in the northeastern United States. *Canadian journal of forest research*, 39(8), 1453-1464. <https://doi.org/10.1139/X09-060>