Jin Wang **May 2026**

CONTACT INFORMATION

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EDUCATION

University of Florida, Gainesville, Florida USA

Ph.D. candidate, Animal Sciences, January 2023 - May 2026

- Advisor: Dr. Haipeng Yu [web]

University of Florida, Gainesville, Florida USA

M.S., Electrical and Computer Engineering, December 2022

Wuhan University of Science and Technology, Wuhan, Hubei CHINA

B.S., Electrical and Computer Engineering, July 2020

WORK EXPERIENCE

Department of Animal Sciences
University of Florida, Gainesville, Florida USA

- Graduate Research Assistant **01/2023 - 05/2026**
- Intern **10/2022 - 12/2022**

PREPRINTS

1. **Wang J**, De Castro A, Zhang Y, Borsatto LB, Guo Y, Primo VB, Bernardino AB, Morota G, Chebel RC, and Yu H. Evaluating transfer learning strategies for improving dairy cattle body weight prediction in small farms using depth-image and point-cloud data. *arXiv*. doi: arXiv:2601.01044

2. Tang Z, **Wang J**, De Castro A, Zhang Y, Primo VB, Bernardino AB, Morota G, Wang X, Chebel RC, and Yu H. Can 3D point cloud data improve automated body condition score prediction in dairy cattle? *arXiv*. doi: arXiv:2601.22522

PEER REVIEWED JOURNAL ARTICLES

2025

5. **Wang J**, Ziwen Yu, Ricardo C. Chebel, and Yu H. Impact of cross-validation designs on cattle behavior prediction using machine learning and deep learning models with tri-axial accelerometer data. *Smart Agricultural Technology*. doi: 10.1016/j.atech.2025.101483

4. De Castro A, **Wang J**, Bonney-King JG, Morota G, Miller-Cushon EK, and Yu H. AnimalMotionViz: an interactive software tool for tracking and visualizing animal motion patterns using computer vision. *JDS Communications*. doi: 10.3168/jdsc.2024-0706

2024

3. M. B. Ugarte Marin, K. N. Gingerich, **Wang J**, H. Yu, E. K. Miller-Cushon. Effects of space allowance on patterns of activity in group-housed dairy calves. *JDS Communications*. doi: 10.3168/jdsc.2023-0486

2023

2. **Wang J**, Yu Hu, Lirong Xiang, Gota Morota, Samantha A. Brooks, Carissa L. Wickens, Emily K. Miller-Cushon and Haipeng Yu. Technical note: ShinyAnimalCV: open-source cloud-based web application for object detection, segmentation, and three-dimensional visualization of animals using computer vision. *Journal of Animal Science*. doi: 10.1093/jas/skad416

1. Bi Y, Campos LM, **Wang J**, Yu H, Hanigan MD, and Morota G. Depth video data-enabled predictions of longitudinal dairy cow body weight using thresholding and Mask R-CNN algorithms. *Smart Agricultural Technology*. doi: 10.1016/j.atech.2023.100352

Contributed Presentations

(* denotes presenting author)

2025

8. **Wang J**, De Castro A, Borsatto LB, Guo Y, Primo VB, Bernardino ABM, Morota G, Chebel RC, Yu H*. Late-Breaking: Transfer Learning for Improving Dairy Cattle Body Weight Prediction in Small Farms Using Depth Images and Point Cloud Data. ASAS-CSAS Annual Meeting. Hollywood, FL. July 6–10.

7. Infante-Cangrejo JL*, **Wang J**, Heredia DC, Lopez-Duarte MC, Venturini M, Yu H, Gonella-Diaza AM. Predicting active and non- active corpus luteum in early pregnancy using computer vision and machine learning on Doppler ultrasound images in beef cattle. ASAS-CSAS Annual Meeting. Hollywood, FL. July 6–10.

6. De Castro A*, **Wang J**, Bonney-King JG, Morota G, Miller-Cushon EK, and Yu H. AnimalMotionViz: an interactive software tool for tracking and visualizing animal motion patterns using computer vision. The 3rd US Conference on Precision Livestock Farming. Lincoln, NE. June 2–5.

5. Ali I*, Yu H, **Wang J**, Smith T, Vann RC, Powell JG, Thorne JW, van Marle-Köster E, Bauer LW, Rouquette MM, Riley DG. Using two-dimensional facial images of Hereford crossbred cattle as a source of computable trait for facial patterns: from images to biological trait. ASAS 2025 Southern/Western Section Joint Meeting. Arlington, Texas. April 5–8. [Abstract]

2024

4. **Wang J***, De Castro A, Borsatto LB, Guo Y, Primo VB, Bernardino ABM, Morota G, Chebel RC, Yu H. Integrating RFID and computer vision for real-time top-View dairy cattle image acquisition on the edge. 10th UF/IFAS Animal Science Graduate Symposium. St. Augustine, FL. 2024 Oct 31–Nov 1.

2023

3. **Wang J***, Yu Z, Chebel RC, Yu H. Impact of cross-validation strategies on machine learning- and deep learning-based cattle behavior predictions using tri-axial accelerometer data. 9th UF/IFAS Animal Science Graduate Symposium. St. Augustine, FL. 2023 Oct 12–13.

2. **Wang J**, Hu Y, Xiang L, Morota G, Brooks SA, Wickens CL, Miller-Cushon EK, Yu H*. ShinyAnimalCV: interactive web application for object detection and three- dimensional visualization of animals using computer vision. ASAS-CSAS-SSASAS Annual Meeting. Albuquerque, NM. Jul 16–20. [Abstract]

1. **Wang J***, Hu Y, Xiang L, Morota G, Brooks SA, Wickens CL, Miller-Cushon EK, Yu H. ShinyAnimalCV: interactive web application for object detection and three-dimensional visualization of animals using computer vision [poster presentation]. Future of Food Forum: Transforming Food Systems with Artificial Intelligence. Gainesville, FL. 2023 Mar 21.

Teaching

University of Florida, Gainesville, Florida USA

Graduate Teaching Assistant

- ANS 6932 Digital Data Analysis for Precision Livestock Farming **Fall 2024**

Software developments

Computer vision software

- ShinyAnimalCV - https://github.com/uf-aiaos/ShinyAnimalCV