

# JAYASOORIYA RANGA APPUHAMY

Department of Animal Science, 313G Kildee Hall,  
Iowa State University, Ames, IA 50011.  
appuhamy@iastate.edu  
Phone: 515-294-4631

## EDUCATION

<b>PhD</b>	<b>Animal Science (2010)</b> Department of Dairy Science, Virginia Tech, Blacksburg, VA
<b>MS</b>	<b>Dairy Science (2006)</b> Department of Dairy Science, Virginia Tech, Blacksburg, VA
<b>BS</b>	<b>Agriculture (2000)</b> Faculty of Agriculture, University of Peradeniya, Sri Lanka

## PROFESSIONAL EXPERIENCES

02/2017 – present	<b>Assistant Professor</b> (60% Research/ 40% Teaching), Iowa State University, Department of Animal Science (Animal Nutrition/ Sustainable Agriculture)
01/2012 – 02/2017	<b>Postdoctoral Associate</b> , University of California-Davis, CA Department of Animal Science (Dr. Ermias Kebreab)
05/2010 – 01/2012	<b>Postdoctoral Associate</b> , University of Guelph, Canada Department of Animal Biosciences (Dr. James France)
01/2007 – 05/2010	<b>Graduate Research Assistant</b> , Virginia Tech, VA Department of Dairy Science (Dr. Mark Hanigan)
01/2007 – 01/2005	<b>Graduate Research Assistant</b> , Virginia Tech, VA Department of Dairy Science (Dr. Benett Cassell)
11/2001 – 01/2005	<b>Lecturer</b> , Wayamba University of Sri Lanka, Sri Lanka Department of Livestock and Avian Sciences
05/2001 – 11/2001	<b>Teaching assistant</b> , Wayamba University of Sri Lanka, Sri Lanka Department of Food Science and Technology
01/2001 – 05/2001	<b>Teaching assistant</b> , University of Peradeniya, Sri Lanka, Department of Animal Science

## AWARDS

- Outstanding Young Alumni in Dairy Science, College of Agriculture and Life Sciences' Alumni Awards (2019), Virginia Tech, Blacksburg VA
- ASAS travel grant to the European Association of Animal Production (EAAP) meetings (2015)
- The second runner-up, Ph.D. student oral competition (2009), ADSA-ASAS Joint Annual Meeting, Québec, Canada
- David W. Francis and Lillian Francis Scholarship recipient (2007), College of Agriculture and Life Sciences, Virginia Tech, Blacksburg, VA
- Outstanding MS thesis award (2006), Sigma-Xi chapter at Virginia Tech, Blacksburg, VA
- Outstanding undergraduate student in Animal Science (2000), General Convocation at University of Peradeniya, Sri Lanka

## TEACHING

### Department of Animal Science at Iowa State University

Year	Course Title	# Students	Credits	Contribution
2017-S	ANS 319 Animal Nutrition	143	3	33%
2017-F	ANS 319 Animal Nutrition	185	3	15%
2018-S	ANS 319 Animal Nutrition	126	3	100%
	ANS 520 Digestive Physiology and Metabolism of Ruminants	13	3	40%
2018-F	ANS 496 Agriculture Systems of New Zealand	21	2	20%
2019-S	ANS 319 Animal Nutrition	144	3	100%
	ANS 214 Domestic Animal Physiology	--	--	A guest lecture
2019-F	ANS 515 Integrated Crop and Livestock Production Systems	10	3	50%
	ANS 434 Dairy System Management	--	--	A guest lecture
2020-S	ANS 319 Animal Nutrition	131	3	100%
	ANS 520 Digestive Physiology and Metabolism of Ruminants	15	3	40%

\*UGD = undergraduate; GD = graduate

### Undergraduate advising

	2017-2018	2018-2019	2019-2020
Number of undergraduate advisees	5	13	24

### Department of Animal Science at University of California-Davis

Year	Level	Course Title	# Students	Credits	Contribution
2015-S	UGD	ANS 112 Sustainable Animal Agriculture	--	3	A guest lecture
2015-S	GD	AGB 250 Mathematical Modeling in Biological Systems	8	3	25%
2016-S	GD	AGB 250 Mathematical Modeling in Biological Systems	7	3	25%

\*UGD = undergraduate; GD = graduate

## SERVICES

### **Iowa State University**

- Since Jan-2020* Graduate Student Affairs Committee of the Department of Animal Science
- 2017-present* Reviewing graduate application for animal science (as requested by the DOGE)
- 2019-present* Study Abroad Committee of the Department of Animal Science
- 2017-present* Chuck Wagon Breakfast/Graduate BBQ committee of the Dept. of Animal Science
- 2019-present* Adviser for the Dairy Science Club
- 2018-present* Mentor in the First-Year Honors Mentor Program
- 2018-present* Mentor in the Science with Practice Program
- 2018 & 2019* Judge in the Borlaug graduate and undergraduate student poster competition
- 2017-2018* Volunteer in June dairy month open house at ISU Dairy
- 2019* Volunteer in Animal Science undergraduate orientation

### **Other**

- 2020* Chair of NC2040 Hatch Multistate Research Project
- 2019* Secretary of NC2040 Hatch Multistate Research Project
- 2019* Moderator of an oral presentation session in the ADSA meeting in Cincinnati, 2019
- 2014-present* Peer reviewer of Journal of Dairy Science and Journal of Animal Science
- 2016-present* Peer reviewer of Journal of Agricultural Science and PLOS ONE Journal

## GRADUATE ADVISING & RESEARCH TRAINING

### ***Graduate student major advisor at ISU***

Student name	Degree	Period	Status
H.K.J.P. Wickramasinghe	MS	June 2017 - July 2019	Graduated
A. J. Kramer	MS	January 2018 - July 2018	Did not complete
J. V. V. Silva	MS	January 2019 - present	In progress
S. Stepanchenko	MS	August 2019 - present	In progress
M. J. Oconitrillo	MS	January 2020 - present	In progress
H.K.J.P. Wickramasinghe	PhD	August 2019 - present	In progress

### ***Postdoctoral mentorship at ISU***

Name	Period	Outcome
Shanthi Ganeshan	January to May -2019	Graduate students were trained on proteomics and immunocytochemistry analyses

### ***Graduate program of study committee member at ISU***

Student Name	Degree	Major Advisor (Institute)	Status
Carrie Shouse	MS	Lance Baumgard (ISU)	Graduated in 2018
Henk van Lingen	PhD	Jan Dijkstra (Wageningen University)	Graduated in 2018
Brooke Dooley	MS	Hugo Ramirez (ISU)	Graduated in 2019
Mohammad Al-Qaisi	PhD	Lance Baumgard (ISU)	Graduated in 2019
Adeline Bauguin	PhD	Cecile Martin (INRA, France)	Graduated in 2019
Layla King	MS	Howard Tyler (ISU)	In progress
Brady Goetz	MS	Lance Baumgard (ISU)	In progress
Erin Horst	PhD	Lance Baumgard (ISU)	In progress
Megan Abeyta	PhD	Lance Baumgard (ISU)	In progress
Crystal Roach	PhD	Aileen Keating (ISU)	In progress
Elizabeth Messersmith	PhD	Stephanie Hansen (ISU)	In progress

### ***Undergraduate research mentorship at ISU***

Student Name	Program	Semester
Jacob Reichert	First-year honors	2018-Spring
Nadiia Stepanchenko	Science with practice	2018-Fall
Erin Kay	First-year honors	2019-Spring
Angel Newman	First-year honors	2019-Spring
Nadiia Stepanchenko	Science with practice	2019-Spring
Emma Kelly	First-year honors	2020-Spring

### ***International scholar and student mentorship***

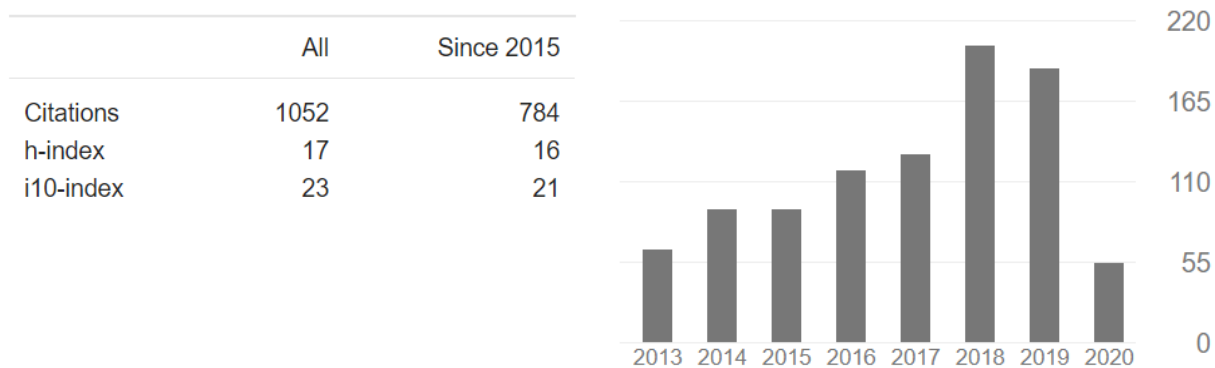
Name	Degree	Institute	Year
<b><i>Iowa State University</i></b>			
Xinyuan Zhang	Undergrad	Northeast Agricultural University, China	2018
Can Ayhan Kaya	Postdoc	Dicle University, Turkey	2018-2019
Yan Zhiyao	Undergrad	Northeast Agricultural University, China	2019
Roberta Manconi	MS	University of Sassari, Italy	2019
<b><i>University of California-Davis</i></b>			
Maria Azevedo	MS	Wageningen University, the Netherlands	2016
Kate Taylor	MS	Wageningen University, the Netherlands	2015
Gregorio Alvarez	Postdoc	Universidad Autonoma de San Luis Potosi, Mexico	2014
Adeline Bougouin	MS	Wageningen University, the Netherlands	2013
Carlos Fernandez	Postdoc	Universitat Politecnica de Valencia, Spain	2013

## SPEAKER INVITATIONS

Year	Title of the talk	Conference
2020	Dietary protein to milk protein; troubleshooting low milk protein efficiency	Northwest Dairy Nutrition Conference, Chandelle, AZ (February 6, 2020)
2019	Cross validation and bootstrapping	Modeling Workshop, Animal Nutrition Program, Cincinnati, OH (June 23, 2019)
2019	Beyond lysine and methionine: what have we learned about histidine?	Four-state dairy nutrition and management conference, Dubuque, IA (June 12, 2019)
2017	Amino acids: roles beyond being the precursors for protein synthesis	Four-state dairy nutrition and management conference, Dubuque, IA (June 14, 2017)
2015	A mechanistic model of water partitioning in dairy cows	EAAP annual meeting, Warsaw, Poland (September 1, 2015)

## PUBLICATIONS

*Google scholar as of 04/28/2020*



### Peer-reviewed Journal Articles

- Hernández, J. C. A., R. V. Alberto, E. Kebreab, **J.A.D.R.N. Appuhamy**, H. C. Dougherty, O. C. Ortega, M. G. Ronquillo. **2020**. Effect of forage to concentrate ratio and fat supplementation on milk composition in dairy sheep: A meta-analysis. *Livestock Science* (accepted)
- McCarthy, C. S., B. C. Dooley, E. H. Branstad, A. J. Kramer, E. A. Horst, E. J. Mayorga, M. Al-Qaisi, M. A. Abeyta, G. Perez-Hernandez, B. M. Goetz, A. R. Castillo, M. R. Knobbe, C. A. Macgregor, J. P. Russi, **J. A. D. R. N. Appuhamy**, L. H. Baumgard, and H. A. Ramirez-Ramirez. **2020**. Energetic metabolism, milk production, and inflammatory response of transition dairy cows fed rumen-protected glucose. *J. Dairy Sci.* (*in press*)
- Wickramasinghe H. K. J. P., J. M. Anast, S. Schmitz-Esser, N. V. L. Serão, and **J. A. D. R. N. Appuhamy**. **2020**. Beginning to offer drinking water at birth increases the species richness and the abundance of Faecalibacterium and Bifidobacterium in the gut of pre-weaned dairy calves. *J. Dairy Sci.* 103: 4262-4274
- Wickramasinghe, J, A. J. Kramer, and **J. A. D. R. N. Appuhamy**. **2019**. Drinking water intake of newborn dairy calves and its effects on feed intake, growth performance, health status, and nutrient digestibility. *J. Dairy Sci.* 102: 377-387.
- Bougouin, A. **J. A. D. R. N. Appuhamy**, A. Ferlay, E. Kebreab, C. martin, P. J. Moate, C. Benchaar, P. Lund, M. Eugene. **2019**. Individual milk fatty acids are potential predictors of enteric methane emissions from dairy cows fed a wide range of diets: Approach by meta-analysis. *J. Dairy Sci.* (102): 10616-10631

6. Roque, B. M., G. C. Reyes, T.A. Tewoldebrhan, **J.A.D.R.N. Appuhamy**, J-J. Lee, S. Seo, and E. Kebreab. **2019**. Exogenous  $\beta$ -mannanase supplementation improved immunological and metabolic responses in lactating dairy cows. *J. Dairy Sci.* (102): 4198-4204
7. **Appuhamy, J. A. D. R. N.**, L. E. Moraes, C. Wagner-Riddle, D. P. Casper, E. Kebreab. **2018**. Predicting manure volatile solid output of lactating dairy cows. *J. Dairy Sci.* 101: 820-829
8. Biswas, S., M. Niu, P. Pandey, **J. A. D. R. N. Appuhamy**, A. B. Leytem, E. Kebreab, R. S. Dungan. **2018**. Effect of dairy manure storage conditions on the survival of *E. coli* O157: H7 and *Listeria*. *J. Environ Qual.* 47: 185-189
9. Niu M., **J. A. D. R. N. Appuhamy**, R. Dungan, E. Kebreab, A. Leytem. **2017**. Effects of diet and manure storage method on carbon and nitrogen dynamics during storage and plant nitrogen uptake. *Agric. Ecosyst. Environ.* 250:51-58.
10. Roque, B. M., **J. A. D. R. N. Appuhamy**, E. Kebreab, P. J. Kononoff. **2017**. Role of exogenous enzyme supplementation to improve nutrition and health of ruminants. *Broadening Horizons*. <https://www.feedipedia.org>
11. Tewoldebrhan, T. A., **J. A. D. R. N. Appuhamy**, J-J. Lee, M. Niu, S. Seo, S. Jeong, E. Kebreab. **2017**. Exogenous  $\beta$ -mannanase (CTCZYME) improved feed conversion efficiency and reduced somatic cell count in dairy cattle. *J. Dairy Sci.* 100: 244-252
12. Taylor, K., **J. A. D. R. N. Appuhamy**, J. Dijkstra, E. Kebreab. **2016**. Development of mathematical models to predict calcium, magnesium and selenium excretion from lactating Holstein cows. *Anim. Prod. Sci.* 58: 489-498
13. **Appuhamy, J. A. D. R. N.**, J. V. Judy, E. Kebreab, P. J. Kononoff. **2016**. Prediction of drinking water intake by dairy cows. *J. Dairy Sci.* 99: 7191-7205
14. **Appuhamy, J. A. D. R. N.**, J. France, E. Kebreab. **2016**. Models for predicting enteric methane emissions from dairy cows in North America, Europe, and Australia and New Zealand. *Global Change Biol.* 22: 3039-3056
15. Jayasundara S., **J. A. D. R. N. Appuhamy**, E. Kebreab, C. Wagner-Riddle. **2016**. Methane and nitrous oxide emissions from Canadian dairy farms and mitigation options: An updated review. *Can. J. Anim. Sci.* 96: 306-331
16. Castro, J. J., S. I. Arriola-Apelo, **J. A. D. R. N. Appuhamy**, M. Hanigan. **2016**. Development of a model describing regulation of casein synthesis by the mammalian target of rapamycin (mTOR) signaling in response to insulin, amino acids, and acetate. *J. Dairy Sci.* 99: 6714-6736
17. Niu M., **J. A. D. R. N. Appuhamy**, A. Leytem, R. Dungan, E. Kebreab. **2016**. Effect of dietary crude protein and forage contents on enteric methane emissions and nitrogen excretion from dairy cows simultaneously. *Anim. Prod. Sci.* 56: 312-321
18. Santiago-Juarez perez B., L. Moraes, **J. A. D. R. N. Appuhamy**, W. Pellikaan, D. Casper, J. Tricario, E. Kebreab. **2016**. Prediction and evaluation of enteric methane emissions from lactating dairy cows using different levels of covariate information. *Anim. Prod. Sci.* 56: 557-564
19. Alvarez-Fuentes, G., **J. A. D. R. N. Appuhamy**, E. Kebreab. **2016**. Prediction of phosphorus output in manure and milk by lactating dairy cows. *J. Dairy Sci.* 99: 771-782
20. **Appuhamy, J. A. D. R. N.**, L. E. Moraes, C. Wagner-Riddle, D. P. Casper, J. France, E. Kebreab. **2014**. Development of mathematical models for determining volume and nutrient composition of fresh manure from lactating Holstein dairy cows. *Anim. Prod. Sci.* 54:1927-1938
21. **Appuhamy, J. A. D. R. N.**, C. Wagner-Riddle, D. P. Casper, J. France, E. Kebreab. **2014**. Quantifying body water kinetics and fecal and urinary water output from lactating Holstein dairy cows. *J. Dairy Sci.* 97: 6177-6195
22. **Appuhamy, J. A. D. R. N.**, E. Kebreab, M. Simon, R. Yada, L. P. Milligan, J. France. **2014**. Effects of diet and exercise interventions on diabetes risk factors in adults without diabetes: meta-analyses of controlled trials. *Diabetology & Metabolic Syndrome*, 6:127

23. Bougouin A, **J. A. D. R. N. Appuhamy**, E. Kebreab, J. Dijkstra J, R. P. Kwakkel, J. France. **2014**. Effects of phytase supplementation on phosphorus retention in broilers and layers: A meta-analysis. *Poult. Sci.* 93(8):1981-92
24. **Appuhamy J. A. D. R. N.**, W. A. Nayananjalie, E. M. England, D. E. Gerrard, R. M. Akers, and M. D. Hanigan. **2014**. Effects of AMP-activated protein kinase (AMPK) signaling and essential amino acids on mammalian target of rapamycin (mTOR) signaling and protein synthesis rates in mammary cells. *J. Dairy Sci.* 97(1): 419-29
25. **Appuhamy, J. A. D. R. N.**, A. B. Strathe, S. Jayasundara, C. Wagner-Riddle, J. Dijkstra, J. France, E. Kebreab. **2013**. Anti-methanogenic effects of monensin in dairy and beef cattle: a meta-analysis. *J. Dairy Sci.* 96(8): 5161-73
26. **Appuhamy, J. A. D. R. N.**, E. Kebreab, and J. France. **2013**. A mathematical model for determining age-specific diabetes incidence and prevalence using body mass index. *Ann. Epidemiol.* 23(5):248-54
27. Hanigan, M. D., **J. A. D. R. N. Appuhamy**, and P. Gregorini. **2013**. Revised digestive parameter estimates for the Molly cow model. *J. Dairy Sci.* 96(6):3867-85
28. **Appuhamy, J. A. D. R. N.**, N. A. Knoebel, W. A. Deepthi Nayananjalie, Jeffery Escobar, and Mark D. Hanigan. **2012**. Isoleucine and leucine independently regulate mTOR signaling and protein synthesis in MAC-T cells and bovine mammary tissue slices. *J. Nutr.* 142(3):484-491.
29. **Appuhamy, J. A. D. R. N.**, A.L. Bell, W. A. Deepthi Nayananjalie, Jeffery Escobar, and Mark D. Hanigan. **2011**. Essential amino acids regulate both initiation and elongation of mRNA translation independent of insulin in MAC-T cells and bovine mammary tissue slices. *J. Nutr.* 141(6):1209-15.
30. **Appuhamy, J. A. D. R. N.**, J. R. Knapp, O. Becvar, J. Escobar, M. D. Hanigan. **2011**. Effects of jugular-infused lysine, methionine, and branched-chain amino acids on milk protein synthesis in high producing dairy cows. *J. Dairy Sci.* 94(4):1952-60.
31. Rius A. G., **J. A. D. R. N. Appuhamy**, J. Cyriac, D. Kirovski, J. Escobar, M. C. McGilliard, B. J. Bequette, R. M. Akers, and M. D. Hanigan. **2010**. Regulation of protein synthesis in mammary glands of lactating dairy cows by starch and amino acids. *J. Dairy Sci.* 93(7):3114-27
32. **Appuhamy, J. A. D. R. N.**, B.G. Cassell, and J.B. Cole. **2009**. Phenotypic and genetic relationships between common health disorders and milk and fat yield persistencies from producer recorded health data and test day yields. *J. Dairy Sci.* 92: 1785-95
33. Toshniwal J. K., C. D. Dechow, B. G. Cassell, **J. A. D. R. N. Appuhamy**, G. A. Varga. **2008**. Heritability of electronically recorded daily body weight and correlations with yield, dry matter intake, and body condition score. *J. Dairy Sci.* 8:3201-10
34. **Appuhamy, J. A. D. R. N.**, B.G. Cassell, C.D. Dechow, and J.B. Cole. **2007**. Phenotypic relationships between common health disorders in dairy cows to lactation persistency estimated from daily milk weight. *J. Dairy Sci.* 90:4424-34.

### Conference Proceedings

1. **Appuhamy, R.**, J. M. Presteggaard, and M. D. Hanigan. **2020**. Dietary protein and troubleshooting low milk protein. Southwest Dairy Nutrition Conference 2020, February 4-6, Chandler, Arizona, <https://sw-nc.com/>
2. Campos, L. M., A. G. Rius, D. Kirovski, **J. A. D. R. N. Appuhamy**, T. F. V. Bompadre, M. D. Hanigan. **2019**. Mammary gland amino acid affinity in response to different levels of dietary protein and insulin. Energy and protein metabolism and nutrition. EAAP Scientific Sries (Mario Luiz Chizzotti). Pp 395-396. Wageningen Publishers, Wageningen, the Netherlands.

3. **Appuhamy, R. 2019.** Beyond lysine and methionine: what have we learned about histidine? Four-state dairy nutrition and management conference, June 12-13. Dubuque, Iowa.  
[http://fourstatedairy.org/proceedings/19\\_4state\\_proceedings.pdf](http://fourstatedairy.org/proceedings/19_4state_proceedings.pdf)
4. **Appuhamy, R. 2017.** Amino acids: roles beyond being the precursors for protein synthesis. Four-state dairy nutrition and management conference. June 14-15. Dubuque, Iowa.  
[https://wiagribusiness.org/fourstatedairy/2017/2017\\_4state\\_proceedings.pdf](https://wiagribusiness.org/fourstatedairy/2017/2017_4state_proceedings.pdf)
5. **Appuhamy, J. A. D. R. N.,** and M. D. Hanigan. **2010.** Modeling the effects of insulin and amino acids on the phosphorylation of mTOR, Akt, and 4EBP1 in mammary cells. Modeling nutrient digestion and utilization in farm animals (D. Sauvant, J. Van Milgen, P. Faverdin and N. Friggens). pp 225-232. Wageningen Publishers, Wageningen, the Netherlands.

### ISU Animal Industry Reports

1. Wickramasinghe, J., and **R. Appuhamy. 2019.** Effects of L-Glutamine supplementation on growth, starter intake and health of early-weaned dairy heifer calves”, Animal Industry Report of Iowa State University. <https://www.iastatedigitalpress.com/air/article/id/7179/>
2. Wickramasinghe, J., and **R. Appuhamy. 2018.** Effects of age dairy calves first offered free drinking water on feed intake, growth, and health, Animal Industry Reports of Iowa State University. [https://lib.dr.iastate.edu/ans\\_air/vol664/iss1/31/](https://lib.dr.iastate.edu/ans_air/vol664/iss1/31/)

### Extension articles citing the research

1. Give newborn calves enough extra water. 2019. Calves. Dairy Global.  
<https://www.dairyglobal.net/Calves/Articles/2019/4/Give-newborn-calves-enough-extra-water-413668E/>
2. Koch, C. **2018.** Provide calves with water from the first day of life. PROTEIN-MARKET.de,  
<https://www.proteinmarkt.de/fachartikel/kw03-kaelber-ab-dem-ersten-lebenstag-mit-wasser-versorgen/>
3. Dairy Research Bulletin- November **2018.** California Dairy Research Foundation.  
<http://cdrf.org/2018/12/07/dairy-research-bulletin-november-2018/>
4. Beyond Bypass. **2017.** New Frontiers in Amino Acid Research. Nutrition Plus Newsletter. Volume 13. <http://www.dairynutritionplus.com/enewsletter/nutrition-plus/2017September>

### Abstracts presented in conferences

1. Silva, J. V. V., L. Showman, H. K. J. P. Wickramasinghe, N. Stepanchenko, M. J. O. Hidalgo, M. A. Perera, **J. A. D. R. N. Appuhamy.** 2020. Elucidating the effects of branched-chain amino acid availability on lactose synthesis rates using mammary tissue slices and isotope-labelled glucose, Annual ADSA meeting-2020, West Palm Beach, FL (accepted)
2. Stepanchenko, N. , H. K. J. P. Wickramasinghe, E. A. Horst, J. V. V. Silva, M. E. O’Neal, S. Bas, F. Ribeiro, **J. A. D. R. N. Appuhamy.** 2020. The Effect of Natural Alkaloid Sanguinarine Supplementation on the Villus Length and Crypt Depth of the Calves. Annual ADSA meeting-2020, West Palm Beach, FL (accepted)
3. Wickramasinghe, H. K. J. P., N. Stepanchenko, C. A. Kaya, J. V. V. Silva, S. Bas, F. R. B. Ribeiro, **J. A. D. R. N. Appuhamy.** 2020. The effect of a sanguinarine supplementation on feed intake, weight gain, hematology and serum chemistry of calves. Annual ADSA meeting-2020, West Palm Beach, FL (accepted)
4. Wickramasinghe, H. K. J. P., C. A. Kaya, **J. A. D. R. N. Appuhamy.** **2019.** L-Glutamine improves weight gain and starter intake of Holstein heifer calves weaned early from a high volume of milk. J. Dairy Sci. 102 ( Suppl. 2): 167



5. Wickramasinghe, H. K. J. P., J. M. Anast, S. Schmitz-Esser, **J. A. D. R. N. Appuhamy**. 2019. Offering drinking water from birth increased species richness in the gut of neonate dairy heifer calves. *J. Dairy Sci.* 102 ( Suppl. 1): 62
6. Silva, J. V. V., S. Ganesan, C. A. Kaya, H. K. J. P. Wickramasinghe, **J. A. D. R. N. Appuhamy**. 2019. Effects of extracellular branched-chain amino acid availability on the abundance of GLUT1 in bovine mammary epithelial cells. *J. Dairy Sci.* 102 ( Suppl. 1): 339
7. Ganesan, S., J. V. V. Silva, C. A. Kaya, H. K. J. P. Wickramasinghe, H. K. J. P., **J. A. D. R. N. Appuhamy**. 2019. Effects of extracellular branched-chain amino acid availability on proteins regulating fat synthesis in bovine mammary cells; a proteomics analysis. *J. Dairy Sci.* 102 ( Suppl. 1): 342
8. **Appuhamy, J. A. D. R. N.**, L. E. Moraes. 2019. Cross validation and bootstrapping: Part1 (Lecture). *J. Dairy Sci.* 102 ( Suppl. 1): 1
9. **Appuhamy, J. A. D. R. N.**, L. E. Moraes. 2019. Cross validation and bootstrapping: Part1 (Exercise). *J. Dairy Sci.* 102 ( Suppl. 1): 2
10. Kramer, A. J., H. A. Ramirez-Ramirez, and **J. A. D. R. N. Appuhamy**. 2018. Effects of branched-chain amino acid supplementation in lactating dairy cows: A meta-analysis. *J. Dairy Sci.* Vol. 101, Suppl. 2
11. Kramer, A. J., and **J. A. D. R. N. Appuhamy**. 2018. Effects of branched-chain amino acid infusions in lactating dairy cows: a meta-analysis. *Canadian. J. Anim. Sci.* Vol. 101, Suppl. 2
12. **Appuhamy, J. A. D. R. N.**, E. A. Horst, S. K. Kvidera, H. J. P. Wickramasinghe, and L. H. Baumgard. 2018. Acute immunoactivation is related to low plasma arginine and branched-chain amino acid concentrations in lactating dairy cows. *J. Dairy Sci.* Vol. 101, Suppl. 2
13. Wickramasinghe Kramer, H. J. P., A. J. Kramer, **J. A. D. R. N. Appuhamy**. 2018. Offering drinking water at birth could improve growth performance and fiber digestibility in Holstein heifer calves. *J. Dairy Sci.* Vol. 101, Suppl. 2
14. M. Al-Qaisi, E. J. Mayorga, E. A. Horst, S. K. Kvidera, A. J. Kramer, C. S. McCarthy, M. A. Abeyta, S. L. Portner, B. M. Goetz, H. A. Ramirez-Ramirez, **J. A. D. R. N. Appuhamy**, L. L. Timms, and L. H. Baumgard. 2018. Validating a “heat stress” model: The effects of an electric heat blanket and nutritional plane on lactating dairy cows. *J. Dairy Sci.* (Suppl.2): 151.
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