

Hugo Felipe da Costa Santos

PhD in Animal Science

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SUMMARY

In-depth knowledge of animal nutrition and physiology, molecular biology, research and data analysis. Experienced in teaching at the collegiate level. Skilled in research studies and development of experimental protocols focusing on equines. Adaptable employee with problem solving skills and international experience. Competent in strategic planning, group management and interpersonal communication. Self-motivated and engaging professional.

EDUCATION

MBA in Business Management

University of São Paulo – ESALQ-USP

2018 – 2020

Piracicaba, SP, Brazil

PhD in Animal Science

Colorado State University – CSU

2014 – 2018

Fort Collins, CO, USA

Bachelor of Science – Animal Science

University of São Paulo – FZEA-USP

2009 – 2014

Pirassununga, SP, Brazil

EXPERIENCE

Colorado State University

Research

Fort Collins, CO, USA

2014 – 2018

- Trained and supervised volunteers on various techniques needed for research studies, such as how to collect and process blood samples, place catheters, and perform fecal egg counts, oral glucose tolerance tests, frequently sampled intravenous glucose tolerance tests and lactate threshold tests
- Delivered public presentations on related topics to equine nutrition and physiology
- Performed many lab techniques, including experimental protocols in equine metabolism and use of molecular biology techniques applied to animal sciences
- Designed diets for equines in accordance to each nutritional study
- Planned research activities and timelines to fit project goals

Teaching Assistant (TA)

2014 – 2018

- Organized and conducted study sessions and open lab times
- Assisted students in the classroom on numerous assignments and answered questions
- Taught equine behavior and safety skills to students
- Supported several equine related academic courses such as:

Equine Exercise Physiology (ANEQ 325): Spring 2017 – 2018

Number of students enrolled per semester: 20

- Assisted in an endurance event to help students learn how to evaluate horses' fitness during the event
- Coordinated equine exercise tests for students to learn how to evaluate training and conditioning in polo horses
- Taught students how to perform field lactate threshold tests

Equine Nutrition (ANEQ 345): Spring and Summer 2015 – 2018

Number of students enrolled per semester: 75

- Taught students how to perform feed sampling for analysis
- Demonstrated how to weigh horses and evaluate body condition
- Assisted in class exercises in ration evaluation and balancing, as well as pasture management

Equine Disease Management (ANEQ 346): Fall 2014 – 2017

Number of students enrolled per semester: 80

- Taught equine anatomy while also performing and teaching dissection of limbs for lab classes
- Assisted in necropsies

Harmony Equine Center

Franktown, CO, USA

Intern

May – August, 2015

- Formulated and implemented new diets for the herd of horses at the center
- Administered medications and exercised animals in rehabilitation
- Responsible for animal handling and farm maintenance

São Paulo State University

Jaboticabal, SP, Brazil

Intern

January – February, 2014

- Involved in research in dog and cat nutrition by conducting digestibility studies in cats and dogs and performing feed analysis

University of São Paulo

Pirassununga, SP, Brazil

Equine research and extension group (GPEEAC-FZEA)

2011 – 2014

- Involved in research in equine nutrition by conducting digestibility studies
- Trained new volunteers on halter breaking and desensitizing horses
- Organized equine related short courses for students and horse owners
- Performed problem solving activities when handling daily tasks in the department

University of California

Davis, CA, USA

Intern

2012 – 2013

- Responsible for moving and handling beef cattle on the feedlot with emphasis on animal welfare methods
- Conditioned new animals for upcoming research handling in the facility

University of São Paulo

Pirassununga, SP, Brazil

Tutorial Education Program (PET) scholar

2009 – 2011

- Planned and implemented symposiums, seminars and short-term courses

- Represented the organization locally and nationally during many events
- Facilitated field trips and extension activities for young learners, including elementary through high school groups and children in foster care programs, to learn more about the agriculture industry and farm experience
- Developed research in pasture handling, ruminal metabolism, and socioeconomic analysis in animal science

ACCOMPLISHMENTS

Colorado State University

Fort Collins, CO, USA

Co-president of Pinnacle Honor Society

2017 – 2018

- Planned and executed regular meetings and group activities
- Fundraised for the local food bank and organized community service projects through the university
- Collaborated with other academic societies at the university to improve academic experience of enrolled members

CSU Animal Welfare Judging Team member

2014 – 2015

- This group was supervised and supported by Dr. Temple Grandin
- Earned High Scoring Individual in the 2014 AWJAC Assessment Exercise at the 14th Annual Intercollegiate Animal Judging/Assessment Contest
- Engaged in critical thinking skills regarding animal welfare issues

University of São Paulo

Pirassununga, SP, Brazil

Student representative – Animal Science Department

2011 – 2012

- Participated in the structuring of the Animal Sciences academic course schedule
- Planned and implemented academic events for students in the Animal Sciences Department

AWARDS

Scholarships

- Science without Borders Scholarship for PhD programs in the USA. 2014 – 2018
- Exchange Program Scholarship: UC Davis Global Study program. 2012 – 2013
- Tutorial Education Program Scholarship. 2009 – 2011

Honor Societies

- Gamma Beta Phi Society
- Pinnacle Honor Society

COMPETENCIES

- Experienced in conducting research and performing molecular biology protocols
- Strong communication skills (both verbal and written)
- Adaptable to new environments and challenges
- International background with excellent interpersonal skills
- Quality leadership and strategic planning skills

ORGANIZATION OF EVENTS

Organized a short course on leadership and teamwork: *Leadership and Teamwork*. May 2013. University of São Paulo, Pirassununga-SP, Brazil.

Organized the first series of short courses directed to specific agricultural undergraduate programs at my college: *I FZEA-USP Academic Week Celebration*. 2012. University of São Paulo, Pirassununga-SP, Brazil.

Organized and coordinated an equine practicum event: *Field Day: Equines*. June, 2011. University of São Paulo, Pirassununga-SP, Brazil.

Organized and coordinated a dairy hygiene practicum event: *Field Day: Dairy Hygiene*. September, 2011. University of São Paulo, Pirassununga-SP, Brazil.

Organized and coordinated the first event in celebration of animal scientist day in Brazil: *I USP/FZEA Animal Science Week Celebration*. May, 2011. University of São Paulo, Pirassununga-SP, Brazil.

Organized and coordinated a series of animal science and agribusiness related lectures: *Agro Lecture Series*. November, 2011. University of São Paulo, Pirassununga-SP, Brazil.

Organized and coordinated a short term course for diet formulation for feedlots: *RLM Formulation Course*. June, 2011. University of São Paulo, Pirassununga-SP, Brazil.

Organized and coordinated a symposium on the beef and dairy industry event at my college: *II PET-FZEA Symposium of Animal Science: Meat and Milk Production Technologies, from the Farm to the Consumer*. May, 2010. University of São Paulo, Pirassununga-SP, Brazil.

PUBLISHED WORK

Peer reviewed journal articles

Santos, H.; Hess, T., Bruemmer, J., Splan, R. (2018). Possible Role of MicroRNA in Equine Insulin Resistance: A Pilot Study. *Journal of Equine Veterinary Science*, Vol. 63, p74–79.

Bass, L.; Swain, E., Santos, H.; Hess, T., Black, J. (2018). Effects of Feeding Frequency Using a Commercial Automated Feeding Device on Gastric Ulceration in Exercised Quarter Horses. *Journal of Equine Veterinary Science*, Vol. 64, p96–100.

Peer reviewed abstracts

Santos, H. F. C.; Hess, T.M.; Bruemmer, J.; Splan, R.; McIntosh, B.; Kaufman, K., Graham, P. (2017). Possible markers for insulin resistance in horses and ponies. *Journal of Equine Veterinary Science*, Vol. 52, p74–75.

da Costa Santos, H. F. \; Hess, T. M., Swain, E. A., Bass, L. D., Snyder, J. (2016). Effects of feeding frequency on gastric ulceration and measures of insulin sensitivity in moderately exercised horses. *American Academy of Veterinary Nutrition Symposium - AAVNS, 2016. Presented at the 16th AAVNS. June 2016. Denver, CO.*

Santos, H. F. C.; Mask, T., Splan, R. K. , Hess, T. M., Bruemmer, J. E. (2015). Differential circulating microRNA profile in insulin-sensitive vs. insulin-resistant mares. *Journal of Equine Veterinary Science*, Vol. 35, Issue 5, p398. **Presented at the 2015 Equine Science Society Symposium. May 2015. St. Pete Beach, FL.**

Wilkins, C., Hess, T. M., da Costa Santos, H. (2015). Feeding free-choice hay to starving horses. *Journal of Equine Veterinary Science*, Vol. 35, p417.

Brandi, R. A., Correa, G. F., Santos, H. F. C., Giunco, C., Hespanholo, G., Oliveira, B. D., Menezes, M. L. (2014). Blood parameters of horses fed diets containing corn gluten meal 21. 7^o European Workshop on Equine Nutrition, 2014.

Araújo, F. C. D., Brandi, R. A., Cesar, N. M., Cruz, M. G., Mota, T. P., Menezes, M. L., Passarelli, D., Lima, R. F., Balieiro, J. C. C., Santos, H. F. C., Nascimento, O. C. A. (2014). Measurement of muscle enzymes CK, AST and LDH in horses submitted to training for Team Penning test. XV Annual Conference of the Brazilian Association of Equine Veterinarians - ABRAVEQ, 2014.

Cruz, M. G., Brandi, R. A., Sousa, R. L. M., Araújo, F. C. D., Cesar, N. M., Mota, T. P., Menezes, M. L., Nascimento, O. C. A., Passarelli, D., Balieiro, J. C. C., Santos, H. F. C., Corrêa, G. F., Munin, F., Henrique, A. C. C. (2014). Population of *Lactobacillus spp.* and *Streptococcus spp.* in feces of horses fed diets containing increasing levels of corn gluten bran 21. XV Annual Conference of the Brazilian Association of Equine Veterinarians - ABRAVEQ, 2014.

Santos, H. F. C., Gameiro, A. H., Raineri C. (2013). Elasticity analysis as a cost management tool in sheep farming. 21^o USP International Symposium on Scientific Initiation - SIICUSP, 2013. **Presented at the 21^o SIICUSP. June 2013. Pirassununga, SP, Brazil.**