Juan Manuel ARIZA

PhD.
Veterinary Epidemiologist

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🌐 ariza-jm.github.io/profile/
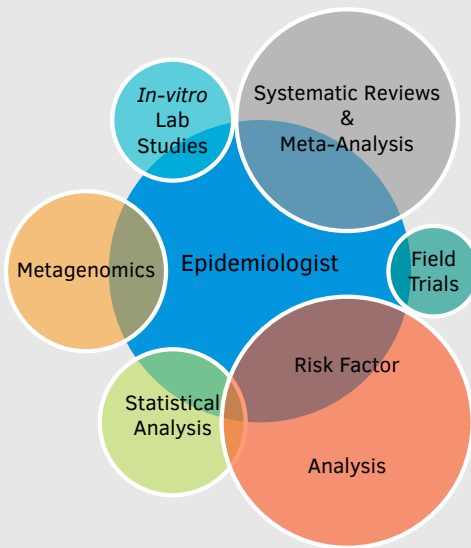
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Skills

Overview

Programming

R • Python • LᴬTᴇX

Language Proficiency

Spanish

French

English

Projects

PinkStep (TM) - Developement of a new footbath solution for the collective control of infectious lameness diseases in dairy cattle

Education

2015 - 2018 **PhD. Veterinary Epidemiologist** Veterinary School of Nantes, France

2015 - 2016 **University degree in Medical Statistics** Sorbonne University, France

2012 - 2013 **Master in Equine Clinical Sciences** University of Liège, Belgium

2006 - 2012 **Doctor of Veterinary Medicine** National University of Colombia, Colombia

Research

2015-2018 **PhD. Candidate, Epidemiology & Risk Evaluation**
Thesis: Assessment of the effectiveness of a new footbath biocide and the best management practices for the prevention and treatment of the bovine digital dermatitis in dairy cows.
- Conducted a systematic review and meta-analysis based on the evidence about the effectiveness of control strategies for the disease.
- Assessed and evaluated the environmental factors affecting the efficacy of a promising original biocide.
- Collected and constructed a rich longitudinal dataset to enable comphrehensive time-series risk analyses about the incidence and persistence of the disease in a large set of farms.
- Gathered the microbiotas from the lesions of diseased animals to explore the dynamics of the disease across the time.

Experience

Mar 2018 – Present   **Post-Doctoral position**   Bioepar
Currently involved in analyzing large data related to the impact of high α-linolenic acid diets on health and productivity indicators of dairy cows in western France.
Participation in developing a research strategy to identify resistant bacteria to a biocide and its impact on skin microbiota.

Jan 2017 – Dec 2017   **Lectures**   Man-Imal
For the Master's degree "Man-Imal" (Public health), I taught an introductory *Evidence Based Medicine* (EBM) course. The lecture combined the basic theory of EBM with "active learning" methods like group work.

Mar 2017 – May 2017   **Externship**   University of Wisconsin-Madison
Performing bacterial culture, DNA extraction, PCR techniques, DNA sequencing, Metagenomics analysis and interpretation.

Aug 2012 – Aug 2013   **Internship**   University of Liège
Monograph: Clinical evidence of platelet rich plasma intra-articular injection for the treatment of stifle joints injuries in horses.
- In a team work environment, I was responsible for hospitalized patients, intensive care cases, treatments, health records and daily examinations.

Publications

Ariza, J.M., Relun, A., Bareille, N., Oberle, K., Guatteo, R., 2017. Effectiveness of collective treatments in the prevention and treatment of bovine digital dermatitis lesions: A systematic review. J. Dairy Sci. 100, 7401–7418. doi:10.3168/jds.2016-11875

Ariza, J.M., Bareille, N., Oberle, K., Guatteo, R., 2018. Current recommendations for footbath renewal rates: The need for adaptation?. Animal. *Under Review.*

Ariza, J.M., Bareille, N., Lehebel A., Oberle, K., Relun, A., Guatteo, R., 2018. Evaluation of a biocide footbath solution in the prevention and healing of digital dermatitis lesions in dairy cows. A clinical trial. Prev. Vet. Med. *Under Review.*

Ariza, J.M., D. Dopfer, K. Anklam, S. Labrut, Relun, A., Oberle, K., Bareille, N., Relun, A., Guatteo, R., 2018. Description of the dynamics of the skin microbiota in feet affected by bovine digital dermatitis, before and after the implementation of a footbath disinfectant. Vet. Microbiol. *Under Review.*