

# Juan Manuel ARIZA

PhD.

Veterinary Epidemiologist



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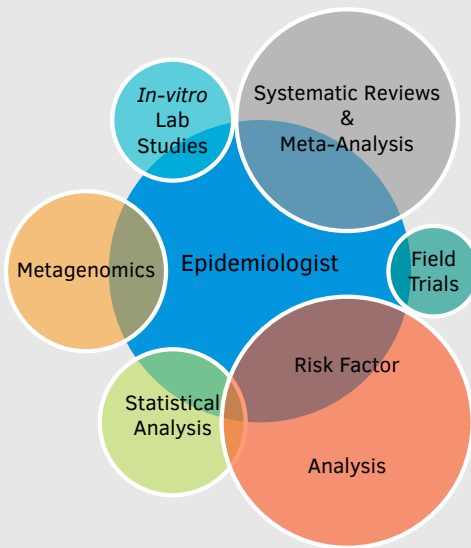
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## Skills

### Overview



## Programming

R • Python •  $\text{\LaTeX}$

## 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 comprehensive 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 - **Post-Doctoral position**

Bioepar

Present

Currently involved in analyzing large data related to the impact of high  $\alpha$ -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 - **Lectures**

Man-Imal

Dec 2017

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 - **Externship**

University of Wisconsin-Madison

May 2017

Performing bacterial culture, DNA extraction, PCR techniques, DNA sequencing, Metagenomics analysis and interpretation.

Aug 2012 - **Internship**

University of Liège

Aug 2013

**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

4 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.*