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2017 BHEARD Scholar  
**Juvenal Djangwani**

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# Profile

<b>Country of Study:</b>	Kenya
<b>University:</b>	University of Nairobi
<b>Department:</b>	Agriculture
<b>Student Position:</b>	Graduate Research Assistant– Ph.D.
<b>Home Country:</b>	Kigali, Rwanda
<b>Home Institution:</b>	University of Rwanda
<b>Home Position:</b>	Assistant Lecturer

**Research Area:** *Food Science and Technology/Dairy Science & Technology*

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**BHEARD PROGRAM START DATE:** August 2017

**UNDERGRADUATE EDUCATION:** B.Sc. Agricultural Sciences (Dairy Science & Technology).  
Alexandria University, Egypt

**GRADUATE EDUCATION:** MSc. Food Science & Technology (Dairy Technology), University of  
Copenhagen, Denmark

**RESEARCH INTERESTS:** Juvenal's research interests are Food technology, in general, and dairy technology in particular. These areas are of interest for two reasons: Firstly, as a young boy, he was raised on a dairy farm (although very small) and since that age, Juvenal was taught that milk was the most complete food having almost all the nutritive elements required by our bodies. Secondly, his home country, Rwanda, is one of the African countries in which you find cows distributed all over the whole country (mainly in small-holder farms). Although milk production has been increasing especially for the last ten years or so, milk spoilage and losses are still an issue.

Juvenal is interested to study and hopefully contribute on mitigating the milk post-harvest losses in Rwanda. The main questions in to be proposed in his PhD research are: Which specific groups of spoilage bacteria are responsible for raw milk losses? How significant (quantitatively) are the spoilage and milk losses caused by each specific group of spoilage bacteria?

Where along the dairy value chain do different bacteria cause spoilage and milk losses? How does this raw milk spoilage affect the suitability of milk for processing? What are locally adaptable methods that can be used to reduce the microbiological spoilage?

Having been interested in the milk quality research area, Juvenal is a CoPi in a research project at his home university (University of Rwanda) on milk production practices, udder health and the impact on milk quality, milk safety and milk process ability. With his PhD research at the University of Nairobi under BHEARD program, he hopes to build on the findings from this current 1-year research project and continue to tackle specifically the issue of milk postharvest losses.

**PERSONAL STATEMENT:** A career in academics has always been an interest to Juvenal since he was a Tutorial Assistant at the University of Rwanda. During his last five years as an Assistant Lecturer, he has seized most of the opportunities in front of him to learn, teach, carry out research, transfer knowledge to communities and grow in his academic career.

Once he finishes his PhD study at the University of Nairobi, he plans to return to the University of Rwanda and continue with career in academics. With more research skills and experience from a Ph.D. degree, he intends to not only seize research opportunities but also to participate in creating such opportunities. Juvenal plans to efficiently transfer knowledge to students. His long-term goal is to continue growing and have an academic career at the University of Rwanda. He believes in learning to get knowledge, solving problems using research and that knowledge which is not transferred becomes useless.

**WHEN I AM NOT WORKING I ENJOY:** Juvenal says, "As a person, I am of course a wonderful person according to myself! According to my friends, I am kind, gentle and talkative to friends I am used to. I am social but can get a bit shy and reserved before I get used to a new friend."

When not teaching or field sampling or in laboratory trying to analyze/interpret results or in an office or in some school/university meetings, Juvenal enjoys doing a variety of things including jogging, sports activities like volleyball, mini-football, cycling....or any other sports activity that is fun. In his free time he also likes travelling to new places, whether a city or a wildlife park or a village or a mountain....as long as it is a new place. He likes spending some of his evenings just hanging out with friends in a bar. On weekends, he is sometimes in the mood to just relax at home and watch movies or TV shows.