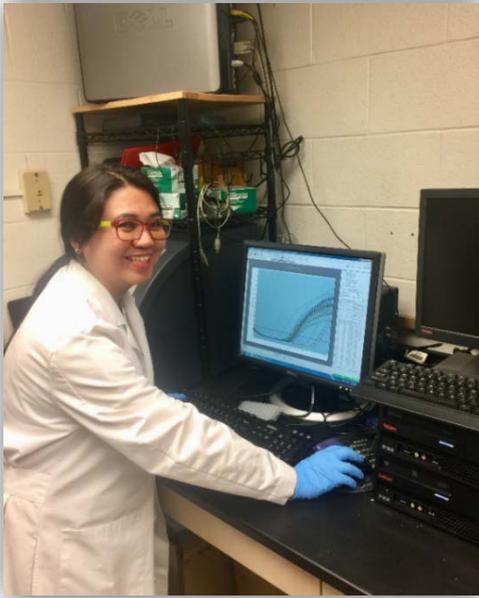


Advanced Research Scholar – Post-doctoral

Loveliamamoad, Ph.D.

Central Luzon State University



Field of Study:	<i>Animal Science -Ruminant nutrition, Microbiology and Biotechnology</i>
Research Period	<i>January 2017 – January 2018</i>
US University	<i>Ohio State University</i>
US Professor	<i>Dr. Zhongtang Yu</i>
Research Title	<i>Establishment of the microbial communities and profiles of different breeds of carabaos</i>

Describe your research conducted in the US.

My research focused on analyzing and comparing the rumen microbial communities of different carabao breeds: Philippine native, Murrah-Philippine crossbred, and Murrah Bulgarian carabaos. This study can eventually set the foundation for new advancements in the improvement of carabao production.

What was the highlight of your research in the US?

My research will provide a deeper understanding on host-microbe relationship and the link among nutrition, metabolism, and the rumen microbiome as well as its impact on animal performance of different carabao breeds rumen microbiota. It will establish the microbial communities and profiles of different breeds of carabao, which eventually can set the foundation for new advancements in the improvement of carabao production. Furthermore, this research will help in the understanding of the relative roles and nutrient needs of the symbiotic relationship between rumen microorganisms and the host animal.

In what way has the USAID scholarship changed you?

With USAID scholarship, I had the chance to conduct a preliminary but very significant research in rumen microbiome of carabao breeds, especially the Philippine native carabao, in the US. In addition, USAID provided financial support for my oral presentations in conferences in Chicago and Maryland. Through the conferences I attended, I had the opportunity to gain more knowledge that broadened my horizon. My network as a young scientist also expanded.

How would you use the knowledge and skills gained through your research to contribute or influence economic growth in the country?

My research will establish the microbial communities and profiles of different breeds of carabaos. This can eventually set the foundation for new advancements in the improvement of carabao production. The new information and recent technologies that I have learned will help researchers, academes, students, industry and farmers understand the relative roles and nutrient needs of the symbiotic relationship between rumen microorganisms and the host animal. With this, feed manipulation and feeding strategies for ruminants can be conducted and applied not only institutionally but also industrially and at the farm level. Thus, the goal of increasing and improving ruminants milk and meat production in the Philippines to meet the demand for food production will be made possible.

As a young scientist, what do you envision for the Philippine science, technology and innovation ecosystem in the next 10 years?

I envision the Philippines to be a developed country. I foresee an improved Philippine science, technology and innovation ecosystem and a developed agriculture sector wherein great collaboration and interlinkages exist among universities, industry and farmers.

After completing her study, Loveliamamoad plans to conduct more research on improving ruminant nutrition. She also plans to become a professor and apply for exchange student or faculty programs.

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