

## Abstract

### **Capacity building for Bangladesh infectious disease epidemiologist on Social Network Analysis**

Bangladesh is considered a hotspot of emerging infectious diseases considering its unique interaction with humans, animals, and wildlife. The recent COVID-19 pandemic has showcased the critical need for a trained one health workforce capable of controlling and managing the disease in the human, animal, and environmental sectors. Bangladesh is experiencing several zoonotic and high impact animal diseases, including Nipah encephalitis, Avian Influenza, Lumpy skin disease, foot and mouth disease etc. The recent emergence of Lumpy Skin disease in the Northern side of Bangladesh rapidly spread throughout the country within a very short time. This outbreak shows the importance of understanding the disease dynamics in the animal movement and trading patterns. However, a limited number of studies has been conducted in the transmission dynamics of these diseases. The One health institute at the Chattogram Veterinary and Animal Sciences University in collaboration with Dr. Beatriz Martinez Lopez the Center for AWB USA, developed a 4-day training in data science for animal health research. Participants included academics and government scientists affiliated with the CVASU, including several students from the Field Epidemiology Training Program.