

# International Forum on Ecology & Evolution of Avian Influenza

*A webinar series by leading scientists (5/2021 - 12/2024)*

November 9, 2021, Tuesday, 9pm – 10pm, China

November 9, 2021, Tuesday, 8am - 9am, EDT USA



**Diann Prosser**

U.S. Geological Survey

<https://www.usgs.gov/staff-profiles/diann-prosser>

Diann Prosser is a research wildlife ecologist at the USGS Eastern Ecological Science Center in Laurel, Maryland. Her background is in avian ecology and spatial modeling. Her research interests include using quantitative spatial techniques to help answer questions related to wildlife and stressors such as climate change and disease. Much of her work focuses on understanding the role of wild waterfowl in the persistence, spread, and amplification of avian influenza viruses, as well as their interactions at the wild- agricultural interface where novel pathogens are most likely to emerge. She has done extensive work in Asia since the mid-2000's as HPAI H5N1 began spreading within and beyond this region.

## **Avian Influenza: Transmission Risk at the Wild-Domestic Interface**

Wild birds, particularly waterfowl, are key reservoirs for avian influenza viruses. They have migratory cycles in which large populations move long distances each year. Understanding wild bird movements in relation to agricultural systems in a spatial and temporal context is important for targeting high priority areas for transmission risk. This presentation will outline the progression of research leading to current efforts to combine data regarding the spatio-temporal distribution of wild birds and domestic poultry, as well as factors such as species-specific prevalence and shedding rates to develop high resolution predictions of transmission risk.

Registration at

<https://www.ceom.ou.edu/outreach/workshops/current/>

**Organizers:** University of Oklahoma, St. Jude Children's Research Hospital, USGS EESC; Sun Yat-sen University; China Agricultural University; CNIC, IVDC, China CDC

**Organizing Committee Chairs:** Xiangming Xiao (University of Oklahoma, USA), and Yuelong Shu (Sun Yat-sen University, China)