

KANSAS STATE
UNIVERSITY
Division of Biology Presents:

**Unlocking Ecological Insights: New Quantitative Approaches in the Age
of Big Data**

Monday, November 30th, 2026 • 3:30 PM • 232 Ackert Hall



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The current technological revolution is transforming how biologists collect data. With the rise in large, fine-grain datasets along with unprecedented computing power, new analytical methods can leverage the full potential of these data and answer “holy grail” questions in ecology and conservation. Two of these questions include “How can we safely, non-invasively, and efficiently monitor wildlife populations?” and “How do we measure the effect of habitat quality on population dynamics?” Using foundational mathematical and ecological principles that describe natural processes and data collection, my research focuses on developing novel analytical approaches to answer questions such as these.

If you would like to visit with Dr. Anna Moeller, please contact Sara Hansen at sjhansen@ksu.edu.

Coffee & snacks served preceding the seminar in Ackert Hall, Room 225