Stephanie received her BS and MS degrees from Texas A&M University and her PhD from the University of Alberta. Stephanie is an Associate Professor and recently moved from the University of Vermont to the University of Missouri. The overarching goal of the McKay lab is to utilize the latest advances in biotechnology while developing new methodologies and resources to determine the extent to which epigenetic and epitranscriptomic modifications contribute towards economically important traits in livestock. While many epigenetic modifications exist, her current research focus is on 5-Methylcytosine, 5-Hydroxymethylcytosine and N6-Methyladenosine. The context in which her lab studies these modifications include neuroepigenomics, comparative epigenomics and functional annotation.