

## Biographical Sketch

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Xiangming Xiao is a Professor of Ecology and Remote Sensing at the Department of Microbiology and Plant Biology, University of Oklahoma (OU), Norman, Oklahoma, USA (<http://mpbio.ou.edu/>).

He also directs the Earth Observation and Modeling Facility (<http://www.eomf.ou.edu>), and is an associate director of the Center for Spatial Analysis (<http://csa.ou.edu/>). He serves as a Subject-Matter Editor for Ecological Applications, and a Review Editor for EcoHealth journal. He has authored or co-authored 125 peer-reviewed journal papers and book chapters. His work includes land use and land cover change, carbon cycle and climate change. Since 2005, Dr. Xiao has been involved in interdisciplinary study in the areas of geospatial technologies, epidemiology, disease ecology and public health. He focuses on applications of geospatial technologies (remote sensing, global positioning systems and geographical information system) for the study of zoonotic infectious diseases. Through the NSF/NIH Ecology of Infectious Diseases program, he leads a NIH-funded international project “ecology-based risk assessment and early warning of highly pathogenic avian influenza H5N1 in Asia” (2007–2013). Through the NASA Public Health program, he leads a NASA-funded project that aims to integrate Earth observations into a disease information system (EMPRES-i) used in the Food and Agriculture Organization (FAO) of the United Nations (2010-2013). He has co-organized five International Workshops on Community-based Data Synthesis, Analysis and Modeling of Highly Pathogenic Avian Influenza H5N1 in Asia (6/2009 in Bangkok, Thailand; 6/2010 in Beijing, China; 11/2011 in Beijing, China; 11/2012 in Rome, Italy; 5/2013 in Hanoi, Vietnam). Since his faculty appointment at OU in 10/2008, he has involved in several multi-institution and interdisciplinary projects, including the NSF-funded CyberCommons for Ecological Forecasting (~\$6 million, 2009-2013), the DOI-funded South-Central Climate Science Center (~\$4 million, 2011-2016), and the USDA-funded beef cattle production and climate change project (~\$10 million, 2013-2018), and the NSF-funded adapting socio-ecological systems to increased climate variability project (~\$20 million, 2013-2018). As PI or Co-I, Dr. Xiao has been involved in 51 research projects receiving a total of ~\$72 million from federal agencies (e.g. NIH, NSF, NASA, DOI, and USDA) since 1994. He has collaborated with many researchers from USA and other countries (Austria, Bangladesh, Belgium, Brazil, Cameroon, China, France, Germany, India, Indonesia, Italy, Japan, Mongolia, Nigeria, Peru, Russia, Thailand, UK, Vietnam, Zimbabwe). Dr. Xiao leads an effort in community remote sensing and citizen science to address the grand challenges in our dynamic and rapidly changing planet Earth and the society, and manages a community remote sensing and citizen science data portal (<http://www.eomf.ou.edu>), including the Global Geo-Referenced Field Photo Library (<http://www.eomf.ou.edu/photos>) where researchers, stakeholders and citizens share, visualize and archive geo-referenced photos from the fields.