**Ming Xue**

**George Lynn Cross Professor (405) 325-6037**

**University of Oklahoma** [**mxue@ou.edu**](https://sooners.sharepoint.com/sites/DISC/Shared%20Documents/General/Luke/DOE%20Resumes/mxue@ou.edu)

**Norman, Oklahoma 73019**

**Education**

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| --- | --- | --- | --- |
| BS | Atmospheric Science | Nanjing University | 1984 |
| Ph.D. | Meteorology | University of Reading | 1989 |

**Professional Experience**

**2018 – present, University of Oklahoma, Norman, OK**

George Lynn Cross Professor

**2010 - present, University of Oklahoma, Norman, OK**

Weathernews Chair Professor

**2008 – present, University of Oklahoma, Norman, OK**

Professor, School of Meteorology

**2003 - 2008, University of Oklahoma, Norman, OK**

Associate Professor, School of Meteorology

**1999 - 2003, University of Oklahoma, Norman, OK**

Assistant Professor, School of Meteorology

**1993 - 1999, University of Oklahoma, Norman, OK**

Senior Research Scientist, CAPS,

**1992 - 1993, University of Oklahoma, Norman, OK**

Research Scientist, CAPS,

**Appointments**

2006 - present Director, Center for Analysis and Prediction of Storms (CAPS), University of Oklahoma

1989 - 1992 Post doctoral fellow, Center for Analysis and Prediction of Storms (CAPS),

University of Oklahoma, Norman, OK

#### **Representative publications on emissions from oil and gas systems**

1. Tong, M. and M. Xue, 2008: Simultaneous estimation of microphysical parameters and atmospheric state with radar data and ensemble Kalman filter. Part II: Parameter estimation experiments. Mon. Wea. Rev., 136, 1649-1668
2. Hu, X.-M., M. Xue, P. M. Klein, B. G. Illston, and S. Chen, 2016: Analysis of urban effects in Oklahoma City using a dense surface observing network. J. Appl. Meteor. Climatol, 55, 723-741.
3. Hu, X.-M., M. Xue, F. Kong, and H. Zhang, 2019: Meteorological conditions during an ozone episode in Dallas-Fort Worth, Texas and impact of their model uncertainties on air quality prediction J. Geophy. Res., 124, 1941-1961.
4. Wang, S., M. Xue, and J. Min, 2013: A four-dimensional asynchronous ensemble square-root filter (4DEnSRF) and tests with simulated radar data. Quart. J. Roy. Meteor. Soc., 139, 805–819.
5. Snook, N. A., M. Xue, and Y. Jung, 2015: Multi-scale EnKF assimilation of radar and conventional observations and ensemble forecasting for a tornadic mesoscale convective system. Mon. Wea Rev., 143, 1035-1057.

**Synergistic activities**

1. Fellow of American Meteorological Society and American Geophysical Union
2. Director, Center for Analysis and Prediction of Storms, University of Oklahoma (2006-present)
3. Co-editor-in-Chief, Advance in Atmospheric Science (2013- present)
4. International Scientific Steering Committee, Center for Earth System Prediction, Chinese Meteorological Administration (CMA). June 2019 – Present
5. NOAA Unified Forecasting System Steering Committee. (2018 – 2020)