Robert C. Gilliam, Physical Scientist, in EPA's National Exposure Research Laboratory

Computational Exposure Division
Mailing Address

gilliam.robert@epa.gov

Area of Expertise: Robert Gilliam has expertise in mesoscale meteorological modeling for air quality applications; meteorological model evaluation methods and tools; and acquiring and leveraging meteorological dataset for environmental research.

Select Publications:

Gilliam, R.G., Raman, S., Niyogi, D.: 2004, 'Observational and numerical study on the influence of large-scale flow direction and coastline shape on sea-breeze evolution', Boundary-Layer Meteorology 111(2), 275-300, 2004

R.C. Gilliam, C. Hogrefe, and S.T. Rao, 2006, New Methods for Evaluating Meteorological Models Used In Air Quality Applications, Atmospheric Environment, 40(26), 5073-5086

Gilliam, R. C., C. Hogrefe, J. M. Godowitch, S. Napelenok, R. Mathur, and S. T. Rao (2015), Impact of inherent meteorology uncertainty on air quality model predictions, J. Geophys. Res. Atmos., 120, doi:10.1002/2015JD023674.

View more research publications by Robert Gilliam.

Education:

- B.S. in Atmospheric Sciences, North Carolina State University, Raleigh, NC, 1999
- M.S. in Atmospheric Sciences, North Carolina State University, Raleigh, NC, 2001

Professional Experience:

- Physical Scientist, USEPA/ORD/NERL/AMAD/AMB, Research Triangle Park, 2008-Present
- Meteorologist, NOAA Atmospheric Sciences Modeling Division (in partnership with EPA/NERL), Research Triangle Park, NC, 2003-2008
- Environmental Meteorologist, State Climate Office of North Carolina, North Carolina State University, 2001-2003