Dr. Mohammad Z. Al-Hamdan, PhD Senior Research Scientist USRA at NASA Marshall Space Flight Center National Space Science and Technology Center, Huntsville, AL, USA mohammad.alhamdan@nasa.gov

Dr. Mohammad Al-Hamdan is a Senior Research Scientist with the Universities Space Research Association at NASA Marshall Space Flight Center in Huntsville, Alabama, USA, and has been there since 2004. Dr. Al-Hamdan received his Ph.D. and M.S. Degrees in Civil and Environmental Engineering from the University of Alabama in Huntsville. Dr. Al-Hamdan's research expertise includes remote sensing and GIS applications to hydrology and air quality modeling, environmental assessment and public health; Use of GIS and remote sensing and related spatial techniques in studying the impacts of land cover land use and climate changes on water and air quality, public health and ecosystems sustainability; Developing decision support tools infused with remotely sensed data for different water, air quality, public health and ecological applications to improve decision-making and environmental sustainability; Flow resistance characterization using spatial analysis of remotely sensed data and GIS; and Use of remote sensing in estimating soil moisture, as well as water resources planning and management. Dr. Al-Hamdan has led and/or participated in numerous research projects funded by the United States National Aeronautics and Space Administration (NASA), National Institutes of Health (NIH), Centers for Disease Control and Prevention (CDC), Environmental Protection Agency (EPA), National Science Foundation (NSF), and/or National Oceanic and Atmospheric Administration (NOAA), and has published numerous peer-reviewed journal and conference papers. Dr. Al-Hamdan also serves as an adjunct assistant professor at the Civil and Environmental Engineering Department of the University of Alabama in Huntsville; an adjunct assistant professor at the School of Public Health of the University of Alabama at Birmingham; an adjunct graduate faculty member at the College of Science, Engineering & Technology at Jackson State University; and an affiliated faculty member at the NIH National Health Disparities Research Center of Excellence at Meharry Medical College and the University of Tennessee Health Science Center.