Tracey Holloway  
HAQAST Team Lead | University of Wisconsin–Madison  
Tracey is evaluating the use of satellite data products as air quality and health indicators; and integration of satellite data into decision frameworks for air quality and health.  
*Satellite Data for Health and Air Quality Management*

Bryan Duncan  
NASA Goddard Space Flight Center  
Bryan is leading the development and assessment of a satellite-based global health air quality index (HAQI). The unique advantages of satellite observations is 1) global spatial coverage and 2) co-located observations of multiple pollutants.  
*HAQI Development and Assessment*

Arlene Fiore  
Columbia University  
Arlene is using satellite products and models to inform air quality planning and health accountability. She plans to conduct health impact assessments, attribute sources of pollution for linkages to health analyses, and estimate uncertainties in satellite-based and modeling approaches.  
*Satellite Data to Inform Air Quality Planning and Health Accountability*

Minghui Diao  
San Jose State University  
Minghui Diao is analyzing aerosol cloud interactions using remote-sensing and in-situ observations  
*Dispersion Model Downscaling of Satellite-Derived PM2.5 Grids*

Daven Henze  
Colorado University at Boulder  
Daven is researching remote sensing of aerosols and trace-gases; regional-to-global air quality modeling; data assimilation and source-receptor modeling; domestic and international air quality management; and environmental health and policy  
*Remote Sensing & Earth System Models to Support Health Impact Assessments*

Jeremy Hess  
Washington University  
Jeremy aims to determine the climate factors that influence allergenic pollen season; identify the weather patterns related to high pollen days; determine links between pollen season parameters and health outcomes; and integrate this information to forecast pollen concentrations and health burdens.  
*Climate, Weather, Pollen, and Health*
Yang Liu
Emory University
Yang aims to develop tracking-style environmental public health indicators and measures. His research uses remote sensing and exposure modeling.

*Earth Observations to Support Environmental Health Surveillance*

Jessica Neu
NASA Jet Propulsion Laboratory
Jessica is analyzing how background ozone responds to changes in international emissions, generating boundary conditions for regional models, and creating maps and visualizations to aid in event analysis.

*Quantification and Attribution of Background Ozone with Satellite Data*

Susan O’Neill
USDA Forest Service Pacific Northwest Research Station
Susan plans to pioneer a smoke modeling framework to be distilled for use in management and public health decisions as well as public information.

*Smoke and Wildfire Research for Air Quality and Public Health*

Ted Russell
Georgia Tech
Ted is using a hi-res air quality and burn impact forecasting system for health protection, ecosystem management and economic development.

*Providing Smoke Impact Forcasting System Using Earth Observations*

Daniel Tong
George Mason University
Daniel is interested in improvements to the National Air Quality Forecast Capability (NAQFC). Specifically, he is working toward improving emission inputs, initialization and deterministic predictions and evaluating forecasting accuracy.

*Air Quality Forcasting*

Jason West
North Carolina University
Jason West is researching the relationships between air quality, climate change and energy and their relevance for policy and health.

*Connecting Air Quality, Climate Change, Energy, Policy and Health*

Mark Zondlo
Princeton University
Mark is using remote sensing measurements of ammonia to inform farm management practices and to reduce local emissions.

*Remote Sensing Data to Impact Population and Ecological Health*