Dr. Conforti has nearly a decade of professional experience developing algorithms and software for the remote sensing community. His expertise includes multi-spectral and hyperspectral image analysis (calibration, atmospheric compensation, target detection, and material ID), atmospheric radiation transport, and the chemical physics aspects of spectroscopy from diverse areas such as rocket plume signatures, chemical warfare agents, and gaseous and particulate atmospheric constituents. Since 2015, he has been with the Aerospace Corporation where he provides subject matter expertise in the field of spectral remote sensing to the US Government. This includes all aspects of atmospheric science and radiation transport, the development and application of algorithms to enhance spectral imaging utility, analyzing new and emerging spectral imaging technologies, and applying theoretical techniques to develop solutions for future sensor systems. Prior to Aerospace, he was a principal scientist and the group leader of the remote sensing group at Spectral Sciences, Inc. In that position, he managed the remote sensing business area for Spectral Sciences. In addition, he was the principal investigator on several DoD contracts for AFRL, the US Army, DARPA, and NGA. These projects included developing the standard DoD atmospheric transmittance software MODTRAN6, producing hyperspectral analysis software for FSTK, and creating processing algorithms for real-time hyperspectral data processing systems. He actively publishes in both the remote sensing field as well as the field of chemical physics. He received his Bachelor of Science Degree in Chemistry from the University of Notre Dame in 2003 and his PhD in Physical Chemistry from Penn State University in 2008.