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Dr. McAuliffe earned his Bachelor of Science in Electrical Engineering degree from the University of Detroit and his Ph.D. in Biomedical Engineering from the University of North Carolina at Chapel Hill, NC. He has been at NIH since 1998 and is currently the Chief of the Biomedical Image Research and Services Section in the Division of Computational Bioscience. He is the original author the Medical Image Processing Analysis and Visualization (MIPAV) application and actively manages the continued development of the application. His current research interests in biomedical imaging include segmentation, quantification, and image fusion.

Dr. McAuliffe also leads the development and implementation of the National Database for Autism Research (NDAR) which is a secure bioinformatics platform for scientific collaboration to support autism spectrum disorder (ASD) research. The NDAR system provides a common platform for data collection, data retrieval and data archiving, while allowing for individual differences in data entry and analysis. Researchers are able to cross-compare data without releasing personally identifiable information, creating a more productive environment for the use of autism research and information. By giving researchers access to more data than they can collect on their own and making their own data collection more efficient, the time to discovery can be reduced.