



Charles Mayo received his doctoral degree in Physics from the University of Massachusetts in Amherst in 1990. His thesis centered on development of an optical technique for utilizing Surface Plasmon Resonance as an immuno-assay method and technique for measuring antibody-antigen adsorption kinetics. With a passion for serving and improving patient care, his professional career has focused on clinical medical physics practice, research and development. His publication record has emphasized development of advance planning techniques and creation of software applications, statistical and machine learning models and databases to improve delivery of care and understanding of outcomes. He is chair of the AAPM subcommittee 263 that succeeded the TG-263 Standardizing Nomenclatures in Radiation Oncology. He is vice chair of the AAPM Data Sciences Committee, Chair of the Big Data Subcommittee of that group and a member of the Radiation Oncology Ontology Work Group. Dr. Mayo is at the University of Michigan where his current research is focused on development, use and extension of health care data analytics systems in multi-institutional, multi-national settings including introduction of Artificial Intelligence leveraging big data into clinical processes.