

Class of IAHSI – 2019



Peter Elkin

Dr. Elkin serves as Professor and Chair of the UB Department of Biomedical Informatics. Peter L. Elkin has served as a tenured Professor of Medicine at the Mount Sinai School of Medicine. In this capacity he was the Center Director of Biomedical Informatics, Vice-Chairman of the Department of Internal Medicine and the Vice-President of Mount Sinai hospital for Biomedical and Translational Informatics. Prior to Mount Sinai Dr. Elkin was a Professor at the Mayo

Clinic in Rochester, MN. Dr. Elkin has published over 190 peer reviewed publications and book chapters. He has served as a consultant for the UK National Health Service on Health Information Technology and I have successfully completed the Royal College of Physicians' Master Educator Program. He received his Bachelors of Science from Union College and his M.D. from New York Medical College. He did his Internal Medicine residency at the Lahey Clinic and his NIH/NLM sponsored fellowship in Medical Informatics at Harvard Medical School and the Massachusetts General Hospital.

Dr. Elkin has been working in Biomedical Informatics since 1981 and has been actively researching health big data science since 1987. He is the primary author of the American National Standards Institute's (ANSI) national standard on Quality Indicators for Controlled Health Vocabularies ASTM E2087, which has also been approved by ISO TC 215 as a Technical Specification (TS17117). He has chaired Health and Human Service's HITSP Technical Committee on Population Health. Dr. Elkin served as the co-chair of the AHIC Transition Planning Group. Dr. Elkin is a Master of the American College of Physicians and a Fellow of the American College of Medical Informatics and a Fellow of the New York Academy of Medicine. Dr. Elkin was the founding co-chair of the International Medical Informatics Associations Working Group on Human Factors Engineering for Health Informatics. Dr. Elkin is the Editor of the Springer Informatics Textbook, *Terminology and Terminological Systems*. He was awarded the Mayo Department of Medicine's Laureate Award for 2005. Dr. Elkin is the index recipient of the Homer R. Warner award for outstanding contribution to the field of Medical Informatics. Dr. Elkin is the Informatics lead on the University at Buffalo CTSA award.

As chair of the University at Buffalo's Department of Biomedical Informatics, and over 30 years history of Research and Education in Biomedical Informatics, He has specialized in building biomedical phenotypic and genotypic common data infrastructure design, systems and protocols, creating and implementing bioinformatics standards for big data storage and exchange. Dr. Elkin has authored over 270 peer-reviewed manuscripts and book chapters. He has published the interoperability specification for exchange of quality data for our nation. Dr. Elkin is an internationally renowned expert in knowledge representation, applied ontology, natural language processing and health IT standards. He and colleagues published the first papers on fully automated electronic quality monitoring that has enabled the movement to value based care payments in the United States. He pioneered the use of compositional ontology use in natural language processing. He has been awarded 1.2 billion in extramural funding over his career. Dr. Elkin in 2018 received the Team Science Award from the National Center for Advancement of Translational Sciences and was elected an inaugural fellow of the American Medical Informatics Association for Clinical Informatics excellence. He is an expert in Machine Learning

and artificial intelligence, especially as related to predictive analytics. He has been elected to the International Academy of Health Sciences Informatics (145 elected worldwide).