Precision Medicine Workshop

Thursday, October 8, 2020 9:00 AM - 4:00 PM
Virtual – Zoom Webinar

The 2020 Precision Medicine Workshop, presented by the BERD KCA of the Great Plains IDeA-CTR, brings in two world-recognized experts to present their research with the aim to translate precision medicine into improvements in health care across the clinical and translational spectrum. This workshop is broken into two parts, an AM and a PM session, focusing on different aspects of precision medicine and emerging technology. This workshop is open to all interested parties and has no registration fee.

Register here: https://is.gd/precision_medicine
Please contact Jerrod Anzalone with questions at alfred.anzalone@unmc.edu or call 402.836.9578
This half-day short course will provide an overview of statistical machine learning, and artificial intelligence techniques with applications to the precision medicine, in particular to deriving optimal individualized treatment strategies for personalized medicine.
Applications of Deep Learning and Inverse-Reinforcement Learning to Precision Medicine

Thursday, October 8, 2020 1:00 PM - 4:00 PM
Virtual – Zoom Webinar

Michael R. Kosorok, PhD
W.R. Kenan, Jr. Distinguished Professor
Chair of Department of Biostatistics,
University of North Carol Chapel Hill

Professor Kosorok received his Ph.D in Biostatistics from the University of Washington in 1991. He is an internationally known biostatistician and a prominent expert in data science, machine learning and precision medicine. He is a fellow of American Statistical Association, Institute of Mathematical Statistics, and American Association for the Advancement of Sciences. He has published more than 160 peer-reviewed journal articles with more than 50 appeared in the premier statistical journals such as Annals of Statistics, JASA, JRSS-B, Biometrika and Biometrics. He has also written a major text on theoretical foundations in empirical processes and semiparametric inferences(Kosorok, 2008, Springer) as well as co-edited (with Erica E.M. Moodie, 2016, ASA-SIAM) a research monograph on dynamic treatment regimens and precision medicine. As principal investigator, he has constantly received major research grants from NIH and NSF. Currently, he leads P01 CA 142538-Statistical Methods for Cancer Clinical Trials and is the Director of Biostatistics core and Co-project leader for North California Translational & Clinical Sciences Institute. In addition, he is a distinguished educator in Statistics/Biostatistics graduating 46 Ph.D students.

This half-day short course will provide an overview of Deep Learning (DL), Inverse-Reinforcement Learning (IRL), and Machine Learning (ML) techniques as they relate to Precision Medicine applications.