



Big Data Training for Cancer Research

Special Lecture Series

Around the Corner: Peering into the Future for Personalized Precision Health

Dr. Eric Stahlberg

July 23, 2024, 1:00 – 2:15 PM (PDT)

Sue Gross Auditorium, Susan & Henry Samueli College of Health Sciences



Speaker Bio:

Eric Stahlberg serves as the director of Cancer Data Science Initiative at the Frederick National Laboratory for Cancer Research (FNLCR). Joining the team at Frederick in 2011 to establish and lead the bioinformatics core supporting the NCI Center for Cancer Research, Dr. Stahlberg shifted his attention in 2014 to lead a new NCI CBIIT initiative to accelerate cancer research through applications of high-performance computing. Working collaboratively with NCI leadership Dr. Stahlberg helped established the Joint Design of Advanced Computing Solutions for Cancer (JDACS4C) collaboration between the NCI and the US Department of Energy as well as Accelerating Therapeutics for Opportunities in Medicine (ATOM), a public-private collaboration to dramatically increase the pace and success of new treatments. Driven to drive advances at the intersection of leading-edge science and computing, Dr. Stahlberg continues to build the cross-disciplinary community through efforts with the Computational Approaches for Cancer and HPC Applications of Precision Medicine workshops. In 2017, he was recognized as one of FCW's Federal 100. Stahlberg holds a Ph.D. in computational chemistry from the Ohio State University and bachelor's degrees in computer science, chemistry and mathematics.

Abstract:

Technology and information are advancing rapidly and opening exciting new pathways to probe and understand the huge complexities of human biology. Approaches to wellness, disease, and long-term health are being transformed globally, with many new insights leading the way to a new future for precision medicine and personal health. The talk will explore many changes taking place globally as the fusion of health information, biology and technology are realized. Topics will include medical digital twins, AI, and predictive models and their developing impacts on research, infrastructure, clinical use, regulatory, and collaborations across the globe.