NIH NATIONAL CANCER INSTITUTE | PURDUE UNIVERSITY CENTER FOR CANCER RESEARCH | INDIANA UNIVERSITY MELVIN AND BREN SIMON COMPREHENSIVE CANCER CENTER | BIG CARE 2021

Big Data Training for Cancer Research

Special Lecture Series

Increasing value of public high-throughput datasets with software and engineering

Dr. Sean Davis

June 18, 2021, 1:00 – 2:30 PM (EDT)

Speaker Bio:

I am Professor of Medicine at the University of Colorado Anschutz School of Medicine. My research interests are at the intersection of public data resources, software and tool development, and cloud technologies and their application in biomedical data science.

I received my B.S. in Mechanical and Aerospace Engineering from Princeton University, my M.D. and Ph.D. from the University of Pittsburgh in the Schools of Medicine and Public Health (thesis advisor, Dr. Daniel Weeks, Human Genetics), respectively. Childrens Hospital and Regional Medical Center was where I completed my residency in Pediatrics, followed by pediatric hematology/oncology training in the Johns Hopkins School of Medicine/National Cancer Institute joint fellowship.

Abstract:

The millions of publicly available samples characterized with high-throughput technologies represent an ongoing opportunity to learn from the experiments of others. Despite significant work to render data more reusable and valuable, there remain challenges for -omic data reuse that are unmet. Recent engineering and software development by our groups have led to new data resources and tools that facilitate large-scale data reuse and meta-analysis in the areas of genomic metadata, human microbiome, and human transcriptomics.

Register at: https://purdue-edu.zoom.us/webinar/register/WN_R_r-2ViVQb-M1x0tRQ3ZMQ