

# BISB BOOTCAMP SUMMER SEMINAR SERIES

July 29th, 2021 | 12:00 PM PST – 1:00 PM PST

**Zoom ID:** 969 2714 6510  
**Password:** binfobuds



## GENOMIC ANALYSIS FOR PRECISION CANCER MEDICINE Hannah Carter, M.Eng., Ph.D.

Hannah Carter is an Assistant Professor in the Department of Medicine's Division of Medical Genetics. She received her Ph.D. in Biomedical Engineering from Johns Hopkins University and her M.Eng. in Electrical and Computer Engineering from the University of Louisville. She is an Azrieli Global Scholar, a Siebel Scholar and a recipient on a 2013 NIH Director's Early Independence Award. The Carter Lab develops and applies computational approaches to aid the interpretation of genetic variation to advance precision cancer medicine. A major focus of the lab is on joint analysis of tumor and inherited genomes to uncover the role of genetic background in shaping tumor risk, somatic evolution and therapeutic response.



## TIME SERIES ANALYSIS FOR PRECISION PUBLIC HEALTH Benjamin Smarr, Ph.D.

Benjamin Smarr is an Assistant Professor in the Department of Bioengineering and the Halicioğlu Data Science Institute. His work leverages his domain expertise in biological rhythms and neuroendocrinology to uncover patterns in diverse sets of time series data that carry actionable information to impact health and cognitive performance. In 2020, he became the technical lead of the global collaborative TemPredict study, which developed algorithms for early detection of COVID-19 infection, and unique cyberinfrastructure to serve rapid, collaborative explorations of population-scale, personal time series data. His personal passions lie in advancing women's health, and in increasing participant engagement to map physiological diversity in service to precision individual and public health.