

Biostatistical methods for wearable devices with applications to NHANES and UK Biobank

Date: 15 December 2021 (Wednesday)

Time: 10:00am - 11:00am

Seminar link: <https://cityu.zoom.us/j/92185037758>



ABSTRACT

Wearable devices, such as accelerometers and heart monitors, are used in health research because they provide objective, continuous, unbiased, and detailed information about human activity either in the laboratory or the free-living environment. In this talk I will explore the different resolutions of the data, ways to summarize it, and inferential methods for exploring the associations with health outcomes. We will illustrate these methods using large, publicly available datasets, including the NHANES and UK Biobank.



Prof Ciprian Crainiceanu GUEST SPEAKER'S PROFILE

Ciprian Crainiceanu, PhD is a Professor of Biostatistics at Johns Hopkins University. He is a generalist who specializes in wearable and implantable technology (WIT) in health studies and Neuroimaging in clinical studies. Prof Crainiceanu is the co-founder of the Statistical Methods and Applications for Research in Technology SMART research group and the co-founder of Neuroconductor.