

DS4SG Workshop Plenary

Sean Barnes, Ph.D.
Assistant Professor of Operations Management
Robert H. Smith School of Business
University of Maryland, College Park, MD

Title: From Orbits to Impact: Leveraging Modeling and Analytics for Decision Support in Hospitals

Abstract

Since the mandated implementation of electronic medical record (EMR) systems in hospitals across the U.S., hospitals have been collecting rich, digitized information about patients who are cared for in their respective facilities. However, meaningful use of this EMR data in practice—particularly in regard to leveraging these data to inform better operational and clinical decisions—has been limited. After describing my journey from studying aerospace engineering at Georgia Tech to conducting healthcare research at Maryland Smith, I will describe how I have been working with practitioners to develop prediction models to drive better outcomes in the hospital setting.