# Data Science Topics in Cardiovascular Research

Samantha Sartori from the Icahn School of Medicine
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**Abstract**: Cardiovascular disease remains the number one cause of death worldwide. Interventional cardiology is a rapidly-evolving medical specialty focused on treating different cardiovascular diseases with minimally invasive techniques. To achieve this, interventional specialists rely on advancements in device technologies along with the development of new pharmacotherapies. The Center for Interventional Cardiovascular Research and Clinical Trials at the Icahn School of Medicine is dedicated to improving the care, quality and outcomes for patients with cardiovascular disease through innovative, patient-centered research. We are a leading National and International resource in the generation of health data related to the prevention, diagnosis and treatment of cardiovascular disease. Through collaboration with experts across the Icahn School of Medicine and physicians from the Mount Sinai Hospital, our Center offers the highest quality research services in the field of interventional cardiology. Directing the Center is the unique global presence and thought leadership of Dr. Roxana Mehran. Since 2010, she has assembled an agile team of experts to carry out high-impact clinical research trials and real-world data studies. She incorporates her vast working experience within a global network of clinical research scientists, with a passionate drive to serve a diverse community of patients through the exchange of ideas and research results. The Biomedical Statistics group provides support for all of the research projects being conducted at the Center, often involving international collaboration of experts in the field.

**Speaker Bio**: Dr. Samantha Sartori is currently an Assistant Professor in the Department of Internal Medicine at Icahn School of Medicine, New York, and is the lead biostatistician and epidemiologist at the Center for Interventional Cardiovascular Research and Clinical Trials at Mount Sinai. She has over 15 years of experience in the field of biomedical statistics, where her work has focused on designing multiple international randomized clinical trials as well as registries. She has immense experience in developing statistical analysis plans, and performing and interpreting complex analysis. She received her Ph.D. in biomedical statistics from the University of Milan, MSc in biostatics and experimental statistics from the University of Milano Bicocca, BS in statistics, population, and health from the University of Bologna, and BS in statistics from the University of Trento. She has over 250 publications and has been cited over 2200 times, with an h-index of 21.

This talk is part of the Leir Research Institute Seminar Series