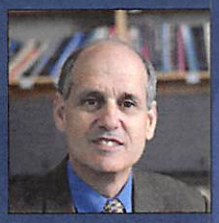
Sponsored by the Department of Biostatistics
Departmental Seminar Series

Discovery and Delivery; Data Science to Improve Health Outcomes at More Affordable Costs A Panel Discussion about *Hopkins inHealth* Precision Medicine



Scott Zeger, PhD

Professor of Biostatistics, Johns Hopkins Bloomberg School of Public Health

John C. Malone Professor for Engineering in Healthcare, Johns Hopkins Whiting School of Engineering

Monday, April 29, 2019
12:15 – 1:15 p.m.
Room W1020 (Becton Dickinson Lecture Hall)
BSPH Building

For more information, please contact Patty Hubbard (phubbar3@jhu.edu).

For disability access information or listening devices, please contact Scott Klein at sklein1@jhu.edu or 410-614-1550

JOHNS HOPKINS
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Department of Biostatistics

BIOSTATISTICS SEMINAR

Discovery and Delivery; Data Science to Improve Health Outcomes at More Affordable Costs

A Panel Discussion about *Hopkins inHealth* Precision Medicine

Antony Rosen, MD, Mary Betty Stevens Professor of Medicine, Director Director of *in*Health

Scott L. Zeger, PhD, John C. Malone Professor of Biostatistics and Medicine, co-Director of *in*Health

Paul Nagy, PhD, Associate Professor of Radiology, Deputy Director, JHM Tech Innovation Center

Aalok Shah, Director of Product Management, *in*Health

Scott R. Levin, Associate Professor of Emergency Medicine, Malone Center for Engineering Healthcare

Johns Hopkins Schools of Medicine, Public Health, and Engineering, Johns Hopkins Medicine

ABSTRACT

Brief presentations and a panel discussion will introduce Johns Hopkins *in*Health Precision Medicine. We will discuss its biomedical and data science frameworks designed and implemented at Johns Hopkins Medicine (JHM) to improve health outcomes at more affordable costs. More than a century ago, JHM was founded upon two ideas: that patients with the same disease are heterogeneous; and that, at the interface of biomedical science and clinical care, we can discover **biologically-anchored, clinically–relevant subgroups for which interventions can be optimized.** *in*Health has framed this approach in biomedical and statistical terms and developed data science methods to integrate complex data with prior biomedical knowledge to empirically identify subgroups and guide clinical decisions. We term this "Discovery and Delivery". We will introduce a key infrastructure, the Precision Medicine Analytics Platform (PMAP). We will give a few examples of data science applications that are benefitting JHM patients today. Most importantly, this session will entertain your questions and ideas about how to engage more data scientists who seek to make a difference in improving the quality and reducing the unnecessary costs in our healthcare system.

Johns Hopkins Bloomberg School of Public Health, Department of Biostatistics
Monday, April 29, 12:15:1-15, Room W1020

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