ICIBM Workshop:

TMC LEARNING HEALTH SYSTEM RESEARCH FORUM 2024

2:30–5:30 PM

10 OCTOBER 2024

The vision of the learning precision health is to leverage technology, data analytics, and evidence-based practices to create a feedback loop that continuously informs and improves healthcare delivery, policy, and practice, with the goals of preventing disease occurrence, detecting diseases earlier, and advancing human health. Rapid advances in computing generally and artificial intelligence (AI) specifically, suggest that data collection, analysis and modelling will be increasingly important to learning precision health. This workshop will provide a comprehensive overview of learning precision health, highlighting the role of real-world evidence in improving patient outcomes and healthcare efficiency. Participants will gain insights into the foundational principles of learning precision health, the technologies that support them, and practical steps for their implementation, especially in the domains of cancer, aging, psychiatry and rare diseases. Through interactive sessions and expert presentations, attendees will learn how to leverage data science, informatics and AI to create a continuous learning environment within their healthcare organizations.

REGISTER HERE

6500 MAIN ST, HOUSTON, TX 77030

Program

2:30–5:30 PM

OCTOBER 10 2024

KEYNOTE

Young J. Juhn, M.D., M.P.H., Mayo Clinic, Rochester, MN
Title: The HOUSES Platform: Groundbreaking Social Determinants of Health Platform Accelerating Health Equity, the Goal of Learning Health System

INVITED PRESENTATION

Boris Reva, PhD, Associate Professor, Mount Sinai, New York
Title: Construction Molecular Signatures for Cancer Classification

Zhandong Liu, PhD, Associate Professor, Baylor College of Medicine, Houston, TX
Title: Benchmarking Large Language Models for the Diagnosis of Rare Mendelian Diseases

Min Ji Kwak, MD, Dr PH, Assistant Professor, McGovern Medical School, UTHealth Houston, Houston, TX
Title: Tailored Healthcare: Precision Medicine and Age-Friendly Health Systems for Older Adults Part 1

Nahid J. Rianon, MBBS/MD, DrPH, AGSF, Professor, McGovern Medical School, UTHealth Houston, Houston, TX
Title: Tailored Healthcare: Precision Medicine and Age-Friendly Health Systems for Older Adults Part 2

Liwei Wang, Associate Professor, McWilliams School of Biomedical Informatics, UTHealth Houston, Houston, TX
Title: Discovering Signature Disease Trajectories from Electronic Health Records for Early Diagnosis

Jair Soares, M.D., PhD, McGovern Medical School, UTHealth Houston, TX
Title: Learning Health Systems: Applications in Behavioral Health

Jinlian Wang, PhD., Assistant Professor, McWilliams School of Biomedical Informatics, UTHealth Houston, Houston, TX
Title: LIVES-living Evidence Synthesis System for Rare Disease