

AGENDA

FRIDAY, OCTOBER 20, 2023

7:30 AM – 7:50 AM	Registration Check-in
7:50 AM – 8:00 AM	Welcome Opening Remarks Robert L. Davis, MD
8:00 AM – 9:00 AM	Keynote Speaker 1: Unlocking the Potential of AI in Healthcare Across Tennessee Lynne E. Parker, PhD
9:00 AM – 9:30 AM	Using AI to Support the Management of a Multimorbid Patient: Challenges and Opportunities Martin Michalowski, PhD
9:30 AM – 10:00 AM	AI Can Provide Earlier Insight into Abusive Head Trauma in Children Nadeem Shafi, MD
10:00 AM – 10:15 AM	Break
10:15 AM – 10:45 AM	Towards Trustworthy Natural Language Processing for Biomedical Research Xiaolei Huang, PhD
10:45 AM – 11:15 AM	Equitable Pharmacogenetic Prediction in Severe Asthma Anahita Khojandi, PhD
11:15 AM – 11:30 PM	Forum 1 – Discussion Question & Answer
11:30 PM – 12:30 PM	Lunch: Applications of Large Language Models in Ophthalmology Siamak Yousefi, PhD
12:30 PM – 1:30 PM	Keynote Speaker 2: The Learning Health System: Digitally Transforming Healthcare and Decision-Making Philip Payne, PhD
1:30 PM – 2:00 PM	AI Driven Design of Engineered Cells Simone Bianco, PhD
2:00 PM – 2:15 PM	Break
2:15 PM – 2:45 PM	Achieving Health Equity: The Power & Pitfalls of Intelligent and Interactive Interfaces Andrea G. Parker, PhD
2:45 PM – 3:00 PM	Forum 2 – Discussion Question & Answer
3:00 PM – 3:10 PM	Closing Remarks Adjourn Robert W. Williams, PhD

TARGET AUDIENCE

Physicians, Community Healthcare Providers, Nurses, Nurse Practitioners, Fellows, Residents, and Medical Students

REGISTRATION

Space is limited. Online registration is available at: <https://cenow.uthsc.edu/content/2023-norfleet-forum>
There is no cost to attend this forum.

ACTIVITY LOCATION

The University of Tennessee Health Science Center
Mooney Building, Library, Room 201
875 Monroe Avenue
Memphis, TN 38163

PARKING

Parking is available in the following two garages:

- **Hamilton Eye Institute Parking Garage (H Lot)**
Distance: 7-minute walk
Location: Madison Avenue at Pauline Street
(across from Landau Uniforms)
- **GEB Parking Garage (E Lot)**
Distance: 5-minute walk
Location: West of the College of Pharmacy building

CONTACT INFORMATION

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The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services.

2023 Frank M. Norfleet Forum
for the Advancement of Health

ARTIFICIAL INTELLIGENCE (AI) and HEALTH CARE

Department of Genetics, Genomics,
and Informatics

FRIDAY, OCTOBER 20, 2023
7:30 AM – 3:00 PM

The University of Tennessee
Health Science Center (UTHSC)
Mooney Building Library, Room 201
875 Monroe Avenue
Memphis, TN 38163



COLLEGE OF MEDICINE



OVERVIEW

The Frank M. Norfleet Forum for the Advancement of Health was established at UTHSC in 1979 through a designated fund within the Community Foundation of Greater Memphis. The mission of the Norfleet Forum is to focus on the improvement of the health status of the citizens who reside in Memphis/Shelby County, the State of Tennessee, the nation, and the world, through concern for effective health policies and organization. The 2023 Norfleet Forum focuses on an understanding of the fundamental principles of Artificial Intelligence and Health Care and how technological advances could be used to improve patient outcomes.

EDUCATIONAL OBJECTIVES

- Define common terms and definitions related to the emerging field of artificial intelligence in healthcare, as well as demonstrate an understanding of current AI based technology.
- Identify the basic premise of tools and techniques involving process mining, digital twinning, and synthetic data to derive insights in care.
- Describe how artificial intelligence could be incorporated into the delivery of quality patient care.

DESIRED OUTCOME

The goal of the 2023 Norfleet Forum is to convene a group of local and nationally renowned experts to discuss the various aspects of artificial intelligence (AI) and health care. The forum's format is designed to provide interactive educational activities that enhance knowledge and allow local experts and leading scientists to discuss evidence-based data related to AI and machine learning. Panel discussions, along with question-and-answer sessions that include collaborative sharing of information and research, as well as networking with other healthcare professionals have shown to improve participant knowledge and competency.

PLANNING COMMITTEE

Robert L. Davis, MD, MPH

Governor's Chair & Director

UTHSC - Center for Biomedical Informatics

Robert W. Williams, PhD

Professor

Department of Genetics, Genomics, and Informatics

Arash Shaban-Nejad, PhD, MPH, MSc

Associate Professor & Director of Population Health

2023 SYMPOSIUM FACULTY



Simone Bianco, PhD

Altos Labs Bay Area Institute of Science



Xiaolei Huang, PhD

University of Memphis



Anahita Khojandhi, PhD

University of Tennessee - Knoxville



Martin Michalowski, PhD

University of Minnesota



Andrea Parker, PhD

Georgia Tech



Lynne E. Parker, PhD

University of Tennessee - Knoxville



Philip Payne, PhD

Washington University – St. Louis



Nadeem Shafi, MD

University of Tennessee Health Science Center



Siamak Yousefi, PhD

University of Tennessee Health Science Center

DISCLOSURE STATEMENT

The University of Tennessee College of Medicine is committed to providing CME that is balanced, objective, and evidence based. In accordance with the Accreditation Council for Continuing Medical Education (ACCME) Essentials and Standards, all parties involved in content development are required to disclose any real or apparent conflicts of interest relating to the topics of this educational activity. The University of Tennessee College of Medicine has established mechanisms to resolve conflicts of interest should they arise. Any potential conflict of interest or off label use will be disclosed to the audience prior to the activity.

6 CME / CEU credits provided

AMA Credit Designation:

The University of Tennessee College of Medicine (UTCOM) designates this live activity for a maximum of 6 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Continuing Education for Non-Physicians:

The UTCOM will issue Certificates of Participation to non-physicians for participating in this activity and designates it for CEUs using the national standard that 1 hour of educational instruction is awarded .1 CEU.

Accreditation:

The UTCOM is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

