

# ICHI 2023 Workshop

## DATA SCIENCE AND AI APPLICATIONS IN CANCER RESEARCH

June 26, 2023

8:00 AM to 12:00PM CST

BRC-285, Rice BRC

6500 Main St., Houston, TX 77005-1827

A DSICCR Workshop

This workshop will showcase informative demonstrations on how data science and AI can be applied to advance cancer research by providing deeper insight into disease mechanisms and facilitating translation to clinical practice. We will cover topics include: Data Science for Cancer Research, EHR Data Mining, GPU Powered Statistical Method, Multi-omics Data Analysis, Cancer Drugs, and Latest AI Research.



**Jill Barnholtz-Sloan**  
NCI, Keynote Speaker



**Liang Li**  
MD Anderson



**Laila R. Bekhet**  
UTHealth



**Zhongming Zhao**  
UTHealth



**Fei Wang**  
Weill Cornell Medicine



**Funda Meric-Bernstam**  
MD Anderson



**Hua Xu**  
Yale University



**Robert T. Ripley**  
Baylor College of Medicine

## REGISTRATION

[Click Here](#)

Travel Award Available

More information

**W. Jim Zheng**

[wenjin.j.zheng@uth.tmc.edu](mailto:wenjin.j.zheng@uth.tmc.edu)



**Zhiqiang An**  
UTHealth



**Nagireddy Putluri**  
Baylor College of Medicine

# Data Science and AI Applications in Cancer Research

## A DSICCR Workshop

ICHI 2023

June 26<sup>th</sup>, 8:00-12:00

BRC-285, BioScience Research Collaborative, Rice University

6500 Main St., Houston, TX 77005-1827

Houston, TX 77030

Time	Speaker	Title
7:30 am	<b>Breakfast</b>	
8:00 am	W. Jim Zheng, UTHealth Houston	Introduction
8:15 am	Keynote: Dr. Jill Barnholtz-Sloan, NCI	Connecting Data and Novel Tools for Impact on Cancer – Updates from the NCI
9:00 am	Dr. Hua Xu, Yale	Natural language processing to facilitate cancer research using electronic health records
9:20 am	Dr. Laila Bekhet, UTHealth Houston	AI models trained on large EHR data for Pancreatic Cancer prediction
9:40 am	Dr. Liang Li, MDACC	GPU accelerated estimation of a shared random effect joint model for dynamic prediction
10:00 am	<b>Coffee Break</b>	
10:20 am	Dr. Fei Wang, Weill Cornell Medicine	Multi-modal learning for biomedicine
10:40 am	Dr. Zhongming Zhao, UTHealth Houston	Deep generative neural network for accurate drug response prediction
11:00 am	<b>Panel Discussion:</b>	
	<ul style="list-style-type: none"><li>● Dr. Funda Meric-Bernstam, MDACC</li><li>● Dr. Robert T. Ripley, BCM</li><li>● Dr. Zhiqiang An, UTHealth Houston</li><li>● Dr. Nagireddy Putluri, BCM</li></ul>	Data science and AI for cancer research: addressing challenges, embracing opportunities, and sharing a wish list – insights from the perspectives of basic and clinical cancer researchers and engaging in a dialogue with Data Science and AI experts.
12:00 pm	<b>End of workshop</b>	