

**2020 DeepTexas Medical AI Symposium
April 23-24, 2020**

**The Westin Houston Medical Center
Houston, Texas**

AGENDA – DAY ONE (APRIL 23, 2020)

1:00 pm - 8:00 pm

1:00-1:30 pm (30 MIN)

PARTICIPANTS ARRIVE/NETWORKING
(Snacks and Beverages)

1:30-1:40 pm (10 MIN)

WELCOME

Giuseppe N. Colasurdo, MD

President

Alkek-Williams Distinguished Chair

H. Wayne Hightower Distinguished Professor in the Medical Sciences

The University of Texas Health Science Center at Houston

CEO, UT Physicians

<https://www.uth.edu/president/>

1:40-2:00 pm (20 MIN)

OPENING REMARKS

Medical AI – A Texas Perspective

Jiajie Zhang, PhD

Dean

Glassell Family Foundation Distinguished Chair in Informatics Excellence

School of Biomedical Informatics

The University of Texas Health Science Center at Houston

<https://sbmi.uth.edu/zhang/index.htm>

2:00-3:00 pm (60 MIN)

KEYNOTE PRESENTATION

Session Chair:

Michael Blackburn, PhD

Executive Vice President and Chief Academic Officer

The University of Texas Health Science Center at Houston

William S. Kilroy, Sr. Distinguished University Chair in Pulmonary Disease

Dean, MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences

The University of Texas Health Science Center at Houston

https://www.uth.edu/evpara/welcome_blackburn.htm

<https://gsbs.uth.edu/about/deans-message.htm>

Keynote: The State of AI and Its Implications for Medicine

Peter Szolovits, PhD

*Professor of Computer Science and Engineering,
Department of Electrical Engineering and Computer Science
Professor of Health Sciences and Technology,
Institute for Medical Engineering and Science
Director of Clinical Decision Making Research Group,
Computer Science and Artificial Intelligence Laboratory
Massachusetts Institute of Technology
Member, National Academy of Medicine
Fellow, American Institute for Medical and Biological Engineering*
<http://imes.mit.edu/people/faculty/szolovits-peter/>

3:00-3:15 pm (15 MIN)

COFFEE BREAK

3:15-4:15 pm (60 MIN)

SESSION 1: MEDICAL AI SOLUTIONS TODAY - PART 1

(20 min each presentation, 15 min with 5 min Q&A)

Session Chair:

Robert Murphy, MD

*Associate Professor and Associate Dean for Applied Informatics
School of Biomedical Informatics
Associate Professor
Division of Critical Care Medicine, Department of Internal Medicine, McGovern Medical School
University of Texas Health Science Center at Houston*
<https://sbmi.uth.edu/faculty-and-staff/robert-murphy.htm>

Practicing Deep Learning-based Natural Language Processing (NLP) in Healthcare

Hua Xu, PhD

*Professor
Director, Center for Computational Biomedicine
School of Biomedical Informatics
University of Texas Health Science Center at Houston*
<https://sbmi.uth.edu/faculty-and-staff/hua-xu.htm>

Machine Learning and Game Theory for the Prediction of Adverse Cardiovascular Events

Ioannis A. Kakadiaris, PhD

*Hugh Roy and Lillie Cranz Cullen University Professor of Computer Science
Founder and Director, Computational Biomedicine Laboratory
University of Houston*
<https://www.linkedin.com/in/ioannisakakadiaris/>

AI for Clinical Phenotyping, Prediction, and Privacy Protection

Xiaoqian Jiang, PhD

*Associate Professor
Dr. Doris L. Ross Professor
Director, Center for Secure Artificial Intelligence For hEalthcare (SAFE)
School of Biomedical Informatics
University of Texas Health Science Center at Houston*
<https://sbmi.uth.edu/faculty-and-staff/xiaoqian-jiang.htm>

4:15-5:15 pm (1 HR)

SESSION 2: AI SOLUTIONS TODAY - PART 2

(20 min each presentation, 15 min with 5 min Q&A)

Session Chair:

Todd Johnson, PhD

Professor

School of Biomedical Informatics

University of Texas Health Science Center at Houston

<https://sbmi.uth.edu/faculty-and-staff/todd-johnson.htm>

Using AI to Reduce Overdiagnosis, Overtreatment, and Misdiagnosis

Stephen T. Wong, PhD, PE

John S. Dunn, Sr. Presidential Distinguished Chair in Biomedical Engineering

Founding Chair, Systems Medicine and Bioengineering

Founding Director, Center for Modeling Cancer Development

Associate Director, Biostatistics and Bioinformatics Cores, Houston Methodist Cancer Center

Founding Director, The Ting Tsung and Wei Fong Chao Center for BRAIN (Bioinformatics Research and Imaging in the Neurosciences)

Chief, Medical Physics

Houston Methodist Hospital and Weill Cornell Medical College

Professor of Radiology, Neurosciences, Pathology, and Laboratory Medicine

Cornell University

https://www.houstonmethodist.org/faculty/stephen_wong/

Learning Brain Imaging Patterns from Temporal and Spatial Differences

Luca Giancardo, PhD

Assistant Professor

Core Faculty, Center for Precision Health

School of Biomedical Informatics

University of Texas Health Science Center at Houston

<https://sbmi.uth.edu/faculty-and-staff/luca-giancardo.htm>

Deep Learning in Radiation Oncology

Steve Jiang, PhD

Professor

Barbara Crittendon Professor in Cancer Research

Vice Chair, Department of Radiation Oncology

Director, Division of Medical Physics and Engineering

Director, MAIA (Medical Artificial Intelligence Automation) Laboratory

University of Texas Southwestern Medical Center

www.utsouthwestern.edu/labs/maia

5:15-8:00 pm

RECEPTION & DINNER

KEYNOTE - RECEPTION

The UT System's Vision for Medical AI

John M. Zerwas, MD

Executive Vice Chancellor for Health Affairs

The University of Texas System

(Former Texas State Representative and Chair of House Appropriations Committee)

<https://www.utsystem.edu/offices/health-affairs/executive-vice-chancellor-health-affairs>

KEYNOTE - DINNER

Medical AI Platform in the Cloud

Lisa McFerrin, PhD

Bioinformatician

Amazon Web Services

<https://www.linkedin.com/in/lisa-mcferrin-9758b029/>

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AGENDA – DAY TWO (APRIL 24, 2020)

8:30 am-4:30 pm

8:30-9:00 am (30 MIN)

PARTICIPANTS ARRIVE/NETWORKING

9:00-10:00 am (60 min)

KEYNOTE PRESENTATION

Session Chair:

Kent Kubie

Nutanix

(Formerly, with IBM)

<https://www.linkedin.com/in/kent-kubie-933195/>

Keynote: AI, Analytics, and Data in Healthcare

Tina Moen, PharmD

Senior Deputy Chief Health Officer & Chief Pharmacy Officer

IBM Watson Health

<https://www.linkedin.com/in/tina-moen/>

10:00-10:15 pm (15 MIN)

COFFEE BREAK

10:15-11:15 pm (60 MIN)

SESSION 3: PANEL - GRAND CLINICAL CHALLENGES FOR AI

Panel Moderator:

Elmer Bernstam, MD, MSE

Professor, Biomedical Informatics

Associate Dean for Research

Reynolds and Reynolds Professor in Clinical Informatics

School of Biomedical Informatics

Professor, Internal Medicine

McGovern Medical School

University of Texas Health Science Center at Houston

<https://sbmi.uth.edu/faculty-and-staff/elmer-bernstam.htm>

Panelists:

John C. Frenzel, MD, MS

Clinical Professor, Department of Anesthesiology and Perioperative Medicine

Division of Anesthesiology and Critical Care

Director, The Learning Health System

The University of Texas MD Anderson Cancer Center

https://faculty.mdanderson.org/profiles/john_frenzel.html

Bela Patel, MD, DABSM, FCCP, CMQ

Distinguished Teaching Professor and Professor of Medicine

Graham Distinguished University Chair

Vice Dean Healthcare Quality

Division Director of Critical Care Medicine

McGovern Medical School

University of Texas Health Science Center at Houston

Vice Chair of Medicine, Regional Chief Medical Officer, and Executive Medical Director of Critical Care

Memorial Hermann Hospital, Texas Medical Center Campus

<https://med.uth.edu/internalmedicine/faculty/bela-patel-md-cmq-fccp/>

Sean Savitz, MD

Professor

Frank M. Yatsu, MD Chair in Neurology

Director, UTHealth Institute for Stroke and Cerebrovascular Disease

McGovern Medical School

University of Texas Health Science Center at Houston

<https://med.uth.edu/neurology/faculty/sean-i-savitz-md/>

Hardeep Singh, MD, MPH

Chief, Health Policy, Quality, and Informatics Program

Center for Innovations in Quality, Effectiveness, and Safety (IQuEST)

Michael E. DeBakey VA Medical Center

Professor, Baylor College of Medicine

Director, Houston DISCOVERY (Diagnosis Improvement Safety Center)

<https://www.houston.hsrdr.research.va.gov/bios/singh.asp>

William Tierney, MD

*Professor and Chair, Department of Population Health
Professor, Departments of Medicine and Oncology
Dell Medical School
Professor, Steve Hicks School of Social Work
University of Texas at Austin*
<https://dellmed.utexas.edu/directory/william-tierney>

Randall Urban, MD

*Professor
Vice President and Chief Research Officer
Vice Dean Clinical Research, School of Medicine
University of Texas Medical Branch at Galveston*
<https://www.utmb.edu/internalmedicine/divisions/endocrinology/faculty/randall-j-urban>

11:15-12:15 pm (60 MIN)

SESSION 4: MEDICAL AI SOLUTIONS FROM INDUSTRY

(20 min each presentation, 15 min with 5 min Q&A)

Session Chair:

GQ Zhang, MS, PhD

*Professor
Department of Neurology - McGovern Medical School, School of Public Health, and School of Biomedical Informatics
Vice President and Chief Data Scientist
Co-Director, Texas Institute for Restorative Neurotechnologies
University of Texas Health Science Center at Houston*
<https://med.uth.edu/neurology/faculty/gq-zhang-ms-phd/>

Cerner's AI Platform

Jacob Geers

*Product Owner, Cerner Intelligence
Cerner Corporation*
<https://www.linkedin.com/in/jacob-geers-90b2515/>

AI for Health at Google

Dale Markowitz

*Software Engineer
Google Cloud*
<https://www.linkedin.com/in/dale-markowitz-40a9a852/>

AI for Clinical NLP at Melax

Frank Manion, PhD

*VP for Innovation
Melax Technologies, Inc.*
<http://www.melaxtech.com/>

12:15-1:15 pm (60 MIN)

LUNCH & NETWORKING

1:15-2:15 pm (60 MIN)

SESSION 5: PANEL - IMPLEMENTING AI IN CLINICAL SETTINGS: CHALLENGES & OPPORTUNITIES

Panel Moderator:

Carl V. Vartian MD, MS, FACP, FIDSA

Diplomate, Clinical Informatics, ABPM

Chief Medical Officer (CMO)

HCA Houston Healthcare Clear Lake and Mainland

<http://circleinformatics.org/user/carl.vartian/>

Panelists:

Babatope Fatuyi, MD

Chief Medical Information Officer

UT Physicians

<https://www.linkedin.com/in/babatope-fatuyi-m-d-96a4b914/>

Amanda Hammel

Senior Vice President and Chief Information Officer

Memorial Hermann Health System

<https://www.linkedin.com/in/amanda-hammel/>

David Jaffray, PhD

Senior VP & Chief Technology and Digital Officer

University of Texas MD Anderson Cancer Center

<https://www.mdanderson.org/newsroom/david-jaffray--ph-d---named-chief-technology-and-digital-officer.h00-159303045.html>

Ashok Kurian

Director, Data & Analytics

Texas Children's Hospital

<https://www.linkedin.com/in/ashok-kurian-40081022/>

Karen C. Tseng, JD

Senior VP for Population Health Transformation

Harris Health System

Non-Resident Fellow in Health Policy

Rice University Baker Institute for Public Policy

<https://www.linkedin.com/in/karenctseng/>

Amar Yousif, MBA

Vice President, Information Technology and Chief Information Officer

University of Texas Health Science Center at Houston

https://www.uth.edu/president/exec_leadership/yousif

2:15-3:15 pm (60 MIN)

SESSION 6: TECHNOLOGY FOR TOMORROW'S MEDICAL AI

(20 min each presentation, 15 min with 5 min Q&A)

Session Chair:

Cui Tao, PhD

Professor

School of Biomedical Informatics

University of Texas Health Science Center at Houston

(Presidential Early Career Award for Scientists and Engineers [PECASE] Awardee)

<https://sbmi.uth.edu/faculty-and-staff/cui-tao.htm>

Meta-Machine Learning for Medicine

Chris Jermaine, PhD

Professor

Department of Computer Science

Rice University

<https://profiles.rice.edu/faculty/christopher-m-jermaine>

Interpretable Machine Learning and Fairness in AI

Xia "Ben" Hu, PhD

Assistant Professor and Lynn '84 and Bill Crane '83 Faculty Fellow

Director, DATA Lab

Department of Computer Science & Engineering

Texas A&M University

<http://faculty.cs.tamu.edu/xiahu/>

Extreme, Large Scale Deep Learning for AI Applications

Anshumali Shrivastava, PhD

Assistant Professor

Departments of Computer Science, Electrical and Computer Engineering, and Statistics

Rice University

<https://profiles.rice.edu/faculty/anshumali-shrivastava>

3:15-3:30 pm (15 MIN)

COFFEE BREAK

3:30-4:30 pm (60 MIN)

SESSION 7: MEDICAL AI - INVESTMENT AND COMMERCIALIZATION

(15 min each presentation, 10 min with 5 min Q&A)

Session Chair:

Ananth Annapragada, PhD

Professor of Radiology, Baylor College of Medicine

Director of Basic Research, Edward B. Singleton Department of Radiology

Texas Children's Hospital

<https://www.texaschildrens.org/find-a-doctor/ananth-v-annapragada-phd>

The Investment Landscape for Health IT and Medical AI

Christopher McCord

Managing Director

Healthcare Growth Partners

<http://www.hgp.com/about-us/who-we-are>

The AI Landscape in Health

Angela Wilkins, PhD

Co-CEO and CTO

Mercury Data Science

Chief Scientist, Mercury Fund

<https://www.linkedin.com/in/adwilkins/>

Artificial Intelligence in Business

Paul A. Pavlou, PhD

Dean

Cullen Distinguished Chair Professor

C.T. Bauer College of Business

University of Houston

<https://www.bauer.uh.edu/administration/office-of-dean/paul-pavlou.php>

Startups in Medical AI and Digital Health

Emily Reiser, PhD

Senior Manager, Innovation Community Engagement

Texas Medical Center Innovation

<https://www.tmc.edu/innovation/team/emily-reiser-phd/>

4:30-4:40 pm (10 MIN)

CLOSING REMARKS

Jijie Zhang, PhD

Dean

Glassell Family Foundation Distinguished Chair in Informatics Excellence

School of Biomedical Informatics

University of Texas Health Science Center at Houston

<https://sbmi.uth.edu/zhang/index.htm>