

**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://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/](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](http://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/>

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

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

**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](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/team.html>*

**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](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://csweb.rice.edu/christopher-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://csweb.rice.edu/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**

**Jiajie 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>