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/](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](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](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/

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

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
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