FEBRUARY 18-20, 2026 | HOUSTON, TEXAS

Duncan Neurological Research Institute (NRI)

INFORMATIONAL PACKET

WELCOME TO THE TMC AI SUMMIT 2026

It is our pleasure to host you at the second annual Texas Medical Center (TMC) AI Summit 2026, a flagship event hosted by TMC institutions from February 18-20, 2026, at Duncan Neurological Research Institute (NRI) in Houston, TX!

This summit is dedicated to cultivating a vibrant, collaborative ecosystem at the Texas Medical Center by harnessing its world-class talent, diverse data resources, and entrepreneurial spirit. Our goal is to translate cutting-edge AI innovations into actionable solutions for real-world biomedical and healthcare challenges. By bringing together researchers, clinicians, and industry leaders, we aim to revolutionize healthcare delivery, enhance outcomes, and drive impactful, global change.

Questions? On the following pages, you will find important information about the conference. If you require any assistance at any time, please do not hesitate to contact Rubab Ali via email rubab.f.ali@uth.tmc.edu or Carina Wang at via email at wanjing.wang@uth.tmc.edu.

Emergency information is available at https://www.tmc.edu/operations/tmc-police/

ONSITE CHECK-IN

Onsite Registration will occur in the Duncan Neurological Research Institute (NRI) on the first floor as soon as you are off of the elevators. Our volunteers will be stationed to assist you with the registration process.

Registration will begin at 8:00am on February 18th. Please plan to arrive at the Duncan Neurological Research Institute (NRI) early to allow ample time for registration. This will ensure that we are able to kick off the TMC AI Summit on time.

Meals Included: All meals will be catered and served in the main hall on the 7th floor. There will also be refreshments and coffee breaks to keep you energized throughout the event.

WIFI: BCM-Internet.

TMC AI SUMMIT 2026

AGENDA

WEDNESDAY 02.18.2026

08:30	**BREAKFAST AND REGISTRATION OPENS**
8:30-9:30	**WELCOME**
9:30-11:30	**STATE OF THE AI IN THE TMC COMMUNITY (I)** ***Chair: Ananth Annapragada*** - *Texas Children's Hospital/Baylor College of Medicine* Tom Luby - TMC Innovation Caroline Chung - MD Anderson Jordan Dale - Methodist Hospital Craig Rusin - Baylor College of Medicine Ashutosh Sabharwal - Rice University
11:30 - 12:30	**LUNCH**
12:30 - 14:30	**STATE OF THE AI IN THE TMC COMMUNITY (II)** ***Chair: Hongfang Liu*** - *UTHealth Houston* Xiaoqian Jiang - UTHealth Houston Jeffrey Morgan - University of Houston Tianbao Yang - Texas A&M University Nnaemeka Okafor - Memorial Hermann Zhandong Liu - Texas Children's Hospital
14:30 - 15:00	**COFFEE BREAK**
15:00 - 18:20	**INDUSTRY TRACK** ***Chair: Devin Dunn - TMC Innovation*** Newton's Tree - Diamond Sponsor OneCloud Source - Diamond Sponsor AWS - Diamond Sponsor HealthConnect TX - Platinum Sponsor Mark III Systems - Platinum Sponsor GE - Gold Sponsor TEKSystems - Gold Sponsor United Imaging - Gold Sponsor Palantir - Gold Sponsor
18:20 - 19:00	**RECEPTION AND POSTER SESSION**
18:20 - 18:35	**DESIGNATED POSTER PRESENTATION**

Find more information at www.tmc-ai-summit.org


TMC AI SUMMIT 2026
AGENDA
THURSDAY
02.19.2026
07:00 - 08:00
BREAKFAST
08:00 - 08:10
OPENING REMARKS
Hongfang Liu - UTHealth Houston
Ananth Annapragada - Texas Children's Hospital/Baylor College of Medicine
08:10 - 10:10
FOUNDATION TRACK
Chair: Ila Singh - Baylor College of Medicine
Chris Mungall - Lawerence Berkeley National Laboratory
Danielle Mowery - Perelman School of Medicine, University of Pennsylvania
TMC Research Spotlight
Foundation Track Panel
Reactive Panel: Ioannis Kakadiaris - University of Houston,
Devika Subranmanian - Rice University, & Tianbao Yang - A&M University
10:10 - 10:30
BREAK
10:30 - 12:30
YOUNG PROFESSIONAL TRACK
Chair: Pranav Mehta - McGovern Medical School
AI Innovations: Design & Strategy 101
Xiaoqian Jiang | UTHealth Houston
Kristin Kostick-Quenet | Baylor College of Medicine
Anwar Siraj | Harris Health
TMC Design Your Own AI Startup 101
Nettie Brown | TMCi
Onur Kilic | Bairitone Health
12:30 - 13:30
LUNCH
13:30 - 14:30
STUDENT RESEARCH SHOWCASE
14:30 - 14:40
COFFEE BREAK
14:40 - 16:40
OPPORTUNITY TRACK
Chair: Tom Fogarty - Baylor College of Medicine
Anant Madabushi - Emory University
Anuj Kapadia - Oak Ridge National Laboratory
TMC Research Spotlight
Opportunity Track Panel
Reactive Panel: Xiaoqian Jiang - UTHealth Houston , Eric Smith - Memorial Herman
& Kelvin Wong - Methodist Hospital
16:40 - 17:40
REFRESHMENTS AND POSTER SESSION
16:45 - 17:00
DESIGNATED POSTER PRESENTATION
Find more information at www.tmc-ai-summit.org

TMC AI SUMMIT 2026

AGENDA

FRIDAY	02.20.2026
07:00 - 08:00 08:00 - 08:10	**BREAKFAST** **OPENING REMARKS** ***Hongfang Liu*** - *UTHealth Houston* ***Ananth Annapragada*** - *Texas Children's Hospital/Baylor College of Medicine*
08:10 - 10:10	**IMPACT TRACK** ***Chair: ZD Liu*** - *Baylor College of Medicine* Cris Ross - Aegis Ventures Nassib Chamoun - Health Data Analytics Institute TMC Innovation Spotlight Impact Track Panel *Reactive Panel:* ***Eric Stahlberg*** - *MD Anderson,* *Haris Shuaib* - *Newton's Tree,* *Brian Warwick* - *AWS,*
10:10 - 10:30	**BREAK**
10:30 - 12:30 PARALLEL SESSION	**EDUCATION AND WORKFORCE DEVELOPMENT TRACK** ***Chair: Susan Fenton*** - *UTHealth Houston* Jamboor Vishwanatha | University of North Texas Pothik Chatterjee | Rice University/Houston Methodist Litao Wang | McGovern Medical School **Education and Workforce Development Panel**
10:30 - 12:30 PARALLEL SESSION	**WORKSHOP/TUTORIALS** Ming Huang | Smart Psychiatry in the Age of Generative AI: Techniques, Solutions, and Future Directions Raul Davilla | The Future Supply Chain: MD Anderson's AI Strategy Mikael Guzman-Karlsson | Building AI Agents for Healthcare: A Practical Introduction Using Retrieval-Augmented Generation
12:30 - 14:00	**LUNCH**
14:00	**CLOSING REMARKS**

Find more information at www.tmc-ai-summit.org

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Newton's Tree is a global healthcare AI company that enables healthcare providers to select, test, deploy, and monitor in-house and third-party AI products through its enterprise AI platform.

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OneSource Cloud delivers end-to-end private AI infrastructure and services, enabling enterprises to securely design, deploy, manage, and scale AI workloads across private, public, and hybrid environments.

Our offerings include **HIPAA-aligned private AI infrastructure** built to meet stringent data privacy, security, and compliance requirements for healthcare and other regulated industries. We provide **dedicated GPU cloud and AI bare-metal solutions** with full data isolation, control, and ownership.

Designed for enterprise production, OneSource Cloud supports **high availability**, **load balancing**, **predictable cost control**, and **scalable AI operations**.

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Vision: To operate a sustainable health information exchange that coordinates care for the community, improves overall population health, enhances health and wellness initiatives, reduces healthcare costs, and advances opportunities for long-term research and disease prevention.

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Mark III Systems, NVIDIA Elite Partner and 2025 NVIDIA Software and Higher Ed/Research Partner of the Year, works closely everyday with enterprises, research institutions, and universities in the details to design, deploy, and co-pilot their AI, GenAI, Modern HPC, and Digital Twin Factories/CoEs, with its unique, cross-functional team.

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TEKsystems partners with leading healthcare organizations to accelerate digital transformation and optimize clinical outcomes through agile technology solutions. Our focus on data modernization, advanced analytics, and AI/ML helps create more efficient, patient-centered healthcare ecosystems.

- Advanced analytics, AI/ML, and cloud-based infrastructure
- EMR and clinical data integration to enhance patient care
- Deep healthcare-IT expertise to accelerate transformation

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United Imaging is driven by the mission **"Equal Healthcare for All™"** and the vision **"Leading Healthcare Innovation."**

- **Born with AI:** AI integration starts at the design phase
- **AI-empowered imaging** for faster exams, seamless workflows, and lower-dose advancements
- **Deep-learning capabilities** (e.g., noise reduction, motion correction, cardio modules)

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GE HealthCare

GE HealthCare is a leading global healthcare solutions provider and trusted partner, innovating medical technology, pharmaceutical diagnostics, and integrated, cloud-first AI-enabled solutions that empower clinicians, health systems, and researchers to improve patient outcomes at scale.

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Operationalize AI on trusted data—securely and at scale.

Palantir's platforms help organizations integrate data, build decision-ready workflows, and deploy analytics and AI with governance built in.

- **Foundry:** unify siloed data into a governed data & workflow layer for real-time decisions
- **Gotham:** accelerate mission-critical insights by connecting data to operations
- **Apollo:** continuously deliver and manage software across cloud, on-prem, and edge environments
- **AIP:** bring AI/LLMs into production with security, control, and human-in-the-loop workflows

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McWilliams School of Biomedical Informatics is Transforming Data to Power Human Health.

- Collect, process, and convert data into actionable information, knowledge, and intelligence
- Educate current and future leaders, innovators, and problem solvers across Texas, the nation, and the world
- Disrupt, transform, and innovate to elicit biomedical discoveries, improve healthcare delivery, and aid in disease prevention by conducting outstanding basic and applied research and developing impactful information technology products and solutions

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Insights. Humanity. Impact.

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Reimagining possibilities for life sciences with autonomous agentic AI—AI-powered insights and purpose-built solutions across the molecule-to-market journey.

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Holmusk

Holmusk is on a mission to harness real-world data to transform research and behavioral health care. Combining their leading behavioral health database with powerful analytics and digital solutions, Holmusk is advancing the frontier of evidence generation and is addressing the most pressing challenges in behavioral health.

STATE OF THE AI IN THE TMC COMMUNITY (I)

9:30 - 11:30 | Feb 18, 2026

Blue Bird Circle Auditorium

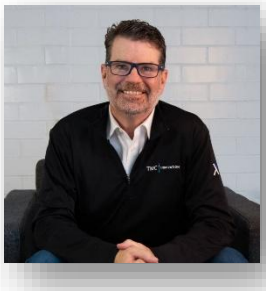
Session Chair:

Ananth Annapragada | Texas Children's Hospital

Dr. Ananth Annapragada is Professor of Radiology and Obstetrics & Gynecology, Member of the Dan L. Duncan Comprehensive Cancer Center, and Director of Basic Research in the Edward B. Singleton Department of Pediatric Radiology at Texas Children's Hospital. Previously, he was the Robert Graham Professor of Entrepreneurial Biomedical Informatics and Bioengineering at the School of Biomedical Informatics at the University of Texas, Health Sciences Center at Houston. He holds additional positions at the Keck Institute, The University of Houston, Rice University and the University of Texas at Austin.

Ananth received his Ph.D. in Chemical Engineering from The University of Michigan in 1989. After postdoctoral fellowships at the University of Minnesota and MIT, he joined Abbott Laboratories as a Research Scientist in 1991. In 1996, he joined SEQUUS Pharmaceuticals, Menlo Park, CA and stayed on till it was acquired by Johnson and Johnson. In 2000, he started his first academic position at the Cleveland State University and Cleveland Clinic Foundation. In 2003, he moved to University of Texas and subsequently, joined Texas Children's Hospital in June 2011.

Dr. Annapragada's research interests include the development of nanomaterial based solutions to medical and imaging problems, 3d bioprinting, and the applications of AI in medicine.

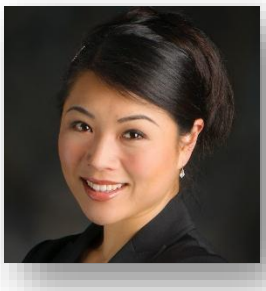


Thomas Luby | Texas Medical Center

Dr. Tom Luby Ph.D. is the Chief Innovation Officer of the Texas Medical Center. In this role, he oversees all of the innovation efforts of TMC focused on research, education, and commercialization of novel healthcare solutions. Prior to this, he was the head of JLABS @ TMC in Houston, Texas. In that role, he catalyzes and support the translation of science and technology into valuable solutions for patients and consumers across the pharmaceutical, medical device and consumer healthcare sectors.

Tom started at Johnson & Johnson Innovation as a New Ventures Lead at the Johnson & Johnson Innovation Center in Boston. In that role, he was instrumental in fostering many deals for the Boston office, which included the expansion of JLABS to JLABS @ Toronto. Prior to J&J, Tom spent 14 years in various R&D and business development positions, most recently as Sr. Director, Research Ventures at Shire. Nine of those years were spent working in R&D and operational roles across three start-up biotech companies in the Boston area.

Tom received a Bachelor of Science in Biology from State University of New York, and a Ph.D. in Immunology from the Sackler School of Biomedical Sciences at Tufts University.



Caroline Chung | UT MD Anderson Cancer Center

Dr. Caroline Chung is Vice President and Chief Data Office and Director of Data Science Development and Implementation of the Institute for Data Science in Oncology at MD Anderson Cancer Center. She is a clinician-scientist, associate professor in Radiation Oncology and Diagnostic Imaging with a clinical practice focused on CNS malignancies and a computational imaging lab focused on quantitative imaging and modeling to detect and characterize tumors and toxicities of treatment to enable personalized cancer treatment. Motivated by challenges observed in her own clinical and research pursuits, Dr. Chung has developed and leads institutional efforts to enable quantitative measurements for clinically impactful utilization and interpretation of data through a collaborative team science approach, including the Tumor Measurement Initiative (TMI) at MD Anderson. Internationally, Dr. Chung leads several multidisciplinary efforts to improve the generation and utilization of high quality, quantitative data to drive research and impact clinical practice, including her role as Vice Chair of the Radiological Society of North America (RSNA) Quantitative Imaging Biomarker Alliance (QIBA), Co-Chair of the Quantitative Imaging for Assessment of Response in Oncology Committee of the International Commission on Radiation Units and Measurements (ICRU) and National Academies of Sciences, Engineering, and Medicine (NASEM)-appointed committee addressing Foundational

Research Gaps and Future Directions for Digital Twins. Beyond her clinical, research and administrative roles, Dr. Chung enjoys serving as an active educator and mentor with a passion to support the growth of diversity, equity and inclusion in STEM, including her role as Chair of Women in Cancer (http://www.womenincancer.org/) , a non-for-profit organization that is committed to advancing cancer care by encouraging the growth, leadership and connectivity of current and future oncologists, trainees and medical researchers.

Jordan Dale | Houston Methodist

Dr. Jordan Dale is the Chief Medical Information Officer and inaugural Chief Health AI Officer at Houston Methodist, as well as a practicing hospital medicine physician at Houston Methodist Hospital. Dr. Dale received his Bachelor of Science in Engineering in Biomedical Engineering from Case Western Reserve University and medical degree from Rush Medical College in Chicago. Dr. Dale is board certified in both Internal Medicine and Clinical Informatics. Dr. Dale previously served in multiple informatics roles at Rush University Medical Center in Chicago, most recently as Chief Medical Informatics Officer, prior to joining Houston Methodist in January 2022. Dr. Dale also serves as adjunct clinical faculty in the EnMed Program at Texas A&M's School of Engineering Medicine within the Texas Medical Center and serves as Chair for the AI Oversight committee at Houston Methodist. Dr. Dale has a focus on empowering care teams and patients with technology and has led teams with various support models to maximize clinicians' EHR satisfaction. In 2018, he received the Irwin Press Patient Experience Research Award as he championed work to share more inpatient clinical data with hospitalized patients and their family within the patient portal. Dr. Dale has spoken nationally about strategies to reduce clinical documentation burden, including the use of ambient listening and other generative AI technologies, and how to improve clinicians' experience and trust with technology.

Craig Rusin | Baylor College of Medicine & Texas Children's Hospital

Dr. Craig Rusin is the CTO and co-founder of Medical Informatics Corp, a company dedicated to deploying the next generation of patient-centric monitoring at hospitals around the country. Considered a thought leader and architect of change in predictive and prescriptive clinical analytics, his work has helped lay the foundation for enabling real-time clinical decision support applications within Hospital IT infrastructure. Craig received his undergraduate degree in Chemical Engineering from Princeton University and his PhD from the University of Virginia. He is Assistant Professor of Medicine in Pediatric Cardiology at Baylor College of Medicine and Texas Children's Hospital, and an Adjunct Professor in the department of Computational and Applied Mathematics at Rice University.

Ashutosh Sabharwal | Rice University

Dr. Ashutosh Sabharwal, is the Ernest D. Butcher Professor in the departments of Electrical and Computer Engineering & Computer Science at Rice University. He leads the Rice Digital Health Initiative (dhi.rice.edu) and is the Co-director of Houston Methodist-Rice Digital Health Institute (www.hmrdhi.org). His digital health research focuses on the development of devices and data science to quantify behavior-biology pathways across multiple diseases. He was awarded the 2017 IEEE Jack Neubauer Memorial Award, the 2018 IEEE Advances in Communications Award, the 2019, 2021, and 2025 ACM Test-of-time Awards, the 2019 ACM MobiCom Community Contribution Award, and multiple best paper awards. His research has led to multiple startups and FDA-approved products. He is a Fellow of IEEE, ACM, and the National Academy of Inventors.

STATE OF THE AI IN THE TMC COMMUNITY (II)

12:30 - 14:30 | Feb 18, 2026

Blue Bird Circle Auditorium

Session Chair:

Hongfang Liu | **UTHealth Houston**

Dr. Hongfang Liu, PhD is a Professor at McWilliams School of Biomedical Informatics and serves as Vice President of Learning Health System at UTHealth Houston. She leads the research in the Center for Translational AI Excellence and Applications in Medicine (TEAM-AI). Before coming to McWilliams in 2023, Dr. Liu was the Dr. Richard F. Emslander Professor of Biomedical Informatics at Mayo Clinic and directed the Biomedical Informatics program at the Mayo Clinic Center for Clinical and Translational Science and led Cancer Data Science and Informatics of Mayo Clinic Comprehensive Cancer Center.

She has a broad range of informatics expertise including artificial intelligence and informatics in healthcare, computational biology and bioinformatics, and biomedical data science. Her research has been recognized through several awards, including the NSF CAREER Award for biomedical text mining, the NCATS Innovation Award for open health natural language processing, the AMIA Donald Lindberg Award in Informatics Innovation for context-aware artificial intelligence, and the CPRIT Established Investigator Recruitment Award. Dr. Liu's research accomplishments have been recently featured in Mayo Clinic Advancing The Science, a CTSA Blog, and at UTHealth Houston. She has been active in several professional organizations including AMIA, IEEE, and ACM and currently a fellow in ACMI and IAHSI.

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Xiaoqian Jiang | UTHealth Houston

Dr. Xiaoqian Jiang is the Associate Vice President of Medical AI at the University of Texas Health Science Center at Houston (UTHealth). He also holds the Department Chair of Data Science and artificial Intelligence position, and is honored to be the Christopher Sarofim family professor. Additionally, he serves as the center director of Secure Artificial intelligence For hEalthcare (SAFE) in the McWilliams School of Biomedical Informatics (MSBMI) at UTHealth. He was an associate editor of BMC Medical Informatics and Decision Making and serves as an editorial board member of the Journal of American Medical Informatics Association. His expertise is primarily in health data privacy and predictive models in biomedicine, drawing from his Computer Science Ph.D. training at Carnegie Mellon University. He received NIH R00, R13, R21, R01, U01 grants as PI, obtained career awards like CPRIT Rising Stars and UT Stars, and won best and distinguished paper awards from American Medical Informatics Association (AMIA) Annual symposiums and the Joint Summits on Translational Science (2012, 2013, 2016, 2020). He is one of the organizers of the iDASH Genome Privacy competition (2014 - present), which Nature News and GenomeWeb reported.

Jeff Morgan | University of Houston

Dr. Jeff Morgan has held the position of associate provost for education innovation and technology at the University of Houston (UH) since January 2014, after serving in an interim role for the previous 7 months. Prior to that time, he held a number of positions at UH, including department chair in mathematics from 2003 to 2013, the founder and director of the center for academic support and assessment since 2004, and the co-founder and co-director of the teachHOUSTON STEM teacher training program since 2007.

Dr. Morgan obtained his bachelors, masters and doctoral degree from the University of Houston, and then spent 16 years at Texas A&M University (TAMU) prior to returning to UH in 2002. He has received numerous teaching awards at TAMU and UH, including a Piper teaching award in the spring of 2013. Morgan is a passionate teacher, and a strong advocate of the use of technology, both inside and outside the classroom. He has worked with k12 teachers through his direction of the Houston Area Calculus Teachers Association since 2001, he has created and facilitated the development of a multitude of online learning materials for a variety of mathematics courses, he has helped developed a considerable amount of instructional software, and developed numerous courses that have been taught in both live and live-online formats.

Tianbao Yang | Texas A&M University

Dr. Tianbao Yang is a Professor and Stephen Horn '79 Engineering Excellence Chair at CSE department of Texas A&M University, where he directs the lab of Optimization for Machine learning and AI (OptMAI Lab). His research interests center around optimization, machine learning and efficient AI with applications in medicine. Before joining TAMU, he was an assistant professor and then tenured Dean's Excellence associate professor at the Computer Science Department of the University of Iowa from 2014 to 2022. Before that, he worked in Silicon Valley as Machine Learning Researcher for two years at GE Research and NEC Labs. He received the Best Student Paper Award of COLT in 2012, and the NSF Career Award in 2019. He is the founder of the widely used LibAUC library. He is associate editor of multiple journals, including IEEE Transactions on Pattern Analysis and Machine Intelligence.

Nnaemeka Okafor | Memorial Hermann Health System

Dr. Nnaemeka Okafor, MD, MS, is the Vice President and Chief Analytics and Informatics Officer at Memorial Hermann Health System. He earned a Master's in Health Informatics from the McWilliams School of Biomedical Informatics in 2011. Since 2020, he has spearheaded the system's analytics maturity, notably serving as the lead physician for the enterprise-wide transition to the Epic EHR. A board-certified Emergency Physician and Clinical Informaticist, Dr. Okafor bridges the gap between complex clinical workflows and AI-driven innovation. With over 20 years in Level 1 trauma care and a decade in executive leadership, he specializes in scaling clinical decision support and data science. In 2025, his team was recognized nationally as a Top 50 Data & Analytics Team.

Zhandong Liu | Baylor College of Medicine

Dr. Zhandong Liu is an associate professor at the Baylor College of Medicine and co-director of the Quantitative and Computational Biosciences graduate program. He serves as the chief of computational sciences at Texas Children's Hospital.

Dr. Liu's educational background includes a MS degree in computer science from Wayne State University and a PhD in genomics and computational biology from the University of Pennsylvania. Dr. Zhandong Liu's research interests span genomics, transcription regulation, disease gene prioritization and machine learning. He applies methods from computer science, statistics and related fields to investigate biomedical questions. His recent work includes using generalized graphical models and augmented reality techniques to integrate multiple data types, which aids in understanding neurological diseases. He has more than 100 publications in the fields of bioinformatics, genetics and genomics.

MEET THE FOUNDATION TRACK KEYNOTES

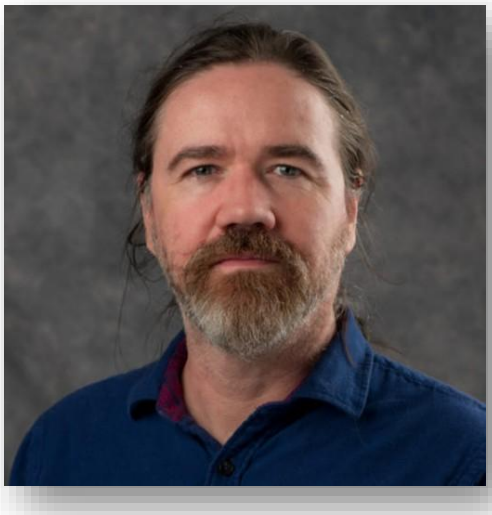
8:10-10:10 | Feb 19, 2026

Blue Bird Circle Auditorium

Session Chair:

Ila Singh | Texas Children's Hospital

Dr. Ila Singh, MD, PhD, is the Chief of Laboratory Medicine and Pathology Informatics at Texas Children's Hospital, and a Professor of Pathology and Immunology at Baylor College of Medicine. She has held leadership roles at Mount Sinai, ARUP Laboratories, and NewYork-Presbyterian/Columbia and is board-certified in Clinical Pathology and Clinical Informatics. She is the founder of the TRUU-Lab Initiative, a national effort to standardize laboratory test names, and will soon step into a Vice Chair in Artificial Intelligence role, where she'll continue advancing data-driven diagnostic care.



Topic: Unlocking Disease Mechanisms: Agentic AI for Clinical Knowledge

Chris Mungall | **Lawrence Berkeley National Laboratory**

Dr. Chris Mungall is a Senior Scientist at Lawrence Berkeley National Laboratory, in the division of Environmental Genomics and Systems Biology, where he heads the Biosystems Data Science department. His research focuses on combining knowledge-based methods and AI to investigate molecular mechanisms underpinning environmental and human health. His department is leading Department of Energy funded efforts to build an AI layer integrating omics and experimental data across multiple facilities. He led the development of multiple widely used ontologies and standards, and is a principal investigator on a number of NIH knowledge base projects, including the Gene Ontology and the Monarch Initiative.

Danielle Mowery | **University of Pennsylvania**

Dr. Danielle Mowery is a collaborative investigator that develops natural language processing (NLP) and generative artificial intelligence (AI) solutions for processing clinical texts – i.e., clinical notes, chatbots, and transcribed texts – to support clinical and translational research. She leverages NLP, data science, machine learning, and computational methods to integrate and analyze information from unstructured texts and structured clinical data to help clinical investigators better understand disease burden, treatment efficacy, and clinical outcomes. Furthermore, her solutions focus on helping patients and clinicians make better decisions at the point of care whether it's in a traditional health system setting or through digital health services within a patient's home. Her work aims to uncover scientific discoveries, identify actionable healthcare knowledge, and optimize translation of research into patient care. As the inaugural Chief Research Information Officer for Penn Medicine, she directs the Clinical Research Informatics Core at the Institute for Biomedical Informatics – a key position designed to bridge the gaps between clinical data, research expertise, and actionable healthcare knowledge. Dr. Mowery represents Penn Medicine in local, regional, national, and international clinical research informatics communities, i.e., formerly, serving as co-chair of the Association of American Medical Colleges (AAMC) Group on Information Resources (GIR) and currently, member of the AAMC Steering Committee, co-chair of the Penn Medicine Data & AI Governance Committee and member of the Epic Cosmos Governing Council. She is also a Fellow of the American Medical Informatics Association and will be inducted as a Fellow of the American College of Medical Informatics this fall. Dr. Mowery has extensive training in the sciences that supports her interests in clinical and translational research including a BS in Biological Sciences, MS in Health & Rehabilitation Sciences, MS and PhD in Biomedical Informatics from the University of Pittsburgh as well as post-doctoral training at the University of Utah.

MEET THE YOUNG PROFESSIONAL TRACK

10:30-12:30 | Feb 19, 2026

Blue Bird Circle Auditorium

Session Chair:

Pranav Mehta | UTHealth McGovern Medical School

Pranav Mehta, is a medical student at UTHealth McGovern Medical School, Project UNITY co-founder, and AAMC CHARGE virtual community ambassador.

Entering medical school, Pranav is driven to continue learning how he can improve community health through personalized and preventative efforts. He is excited to combine his public health leadership, research background, and clinical learning experiences (Ben Taub, TCH, Urgent Care Clinics) to become an effective and understanding provider for his future patients.

AI Innovations: Strategy & Design 101 Workshop:

Xiaoqian Jiang | UTHealth Houston

Dr. Xiaoqian Jiang is Associate Vice President for Medical AI at UTHealth Houston, Chair of Health Data Science & AI, and Director of the Center for Secure AI for Healthcare (SAFE). As a national leader in privacy-preserving AI, federated learning, and explainable machine learning, he has secured over $35M in NIH and federal funding to advance responsible, scalable AI in healthcare. Dr. Jiang brings deep expertise in designing AI systems that balance innovation, trust, and real-world clinical impact.

Kristin Kostick-Quenet | Baylor College of Medicine

Dr. Kristin Kostick-Quenet is a leading bioethicist and medical anthropologist specializing in the ethical design and implementation of AI in healthcare. Her work focuses on responsibly translating AI technologies, such as digital phenotyping and computational behavioral analysis, into clinical care. With extensive scholarship on AI governance, human-centered design, consent, data privacy, and clinical decision-making, she offers a critical lens on building AI systems that are not only powerful, but ethical, usable, and aligned with patient trust.

Design Your Own AI Startup 101 Workshop

Onur Kilic | Bairitone Health

Dr. Onur Kilic is the Co-Founder and CTO of Bairitone Health, where he leads the development of AI-guided therapies for sleep apnea. As a former TMC Innovation Founder-in-Residence, Stanford PhD Graduate, and Researcher at Johns Hopkins, Mayo Clinic, and Yale, his work has been featured on the cover of Nature Biomedical Engineering and in major media outlets. With 70+ issued patents, Onur brings sharp experience translating cutting-edge AI research into venture-backed, real-world healthcare startups.

Nettie Brown | Texas Medical Center Innovation Factory

Dr. Nettie Brown is a biomedical engineer, AI health innovator, and startup founder with deep expertise in translating AI from research to commercialization. Trained at Georgia Tech and Emory, she has led AI-enabled clinical projects through NIH NCATS and NSF I-Corps, including machine-learning models for diabetes and Long COVID care. As a current Founder-in-Residence at the TMC Innovation Biodesign Program, Nettie is invested in building the next generation of scientists and engineers toward scalable, impact-driven AI startups.

MEET THE OPPORTUNITIES TRACK KEYNOTES

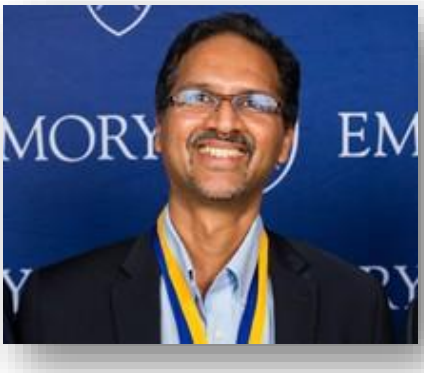
14:40-16:40 | Feb 19, 2026

Blue Bird Circle Auditorium

Session Chair:

Tom Fogarty | Baylor College of Medicine

Dr. Tom Fogarty, MD, is an expert in Pediatric Critical Care Medicine and Clinical Informatics and serves as Associate Chief Quality Officer for the Department of Pediatrics at Baylor College of Medicine. His work focuses on improving clinical outcomes and care reliability through the practical application of clinical data science, decision science, and the development and implementation of AI across pediatric healthcare settings. Dr. Fogarty's clinical practice centers on Extracorporeal Life Support (ECLS) and Pulmonary and Oncology Critical Care, where he cares for critically ill children and brings frontline insight to the design, evaluation, and adoption of technology-enabled care workflows. In his quality leadership role, he partners with clinicians, informaticists, and operational teams to identify high-impact opportunities, translate them into measurable initiatives, and scale interventions that produce sustained improvement. An advocate for interdisciplinary collaboration and transparent measurement, Dr. Fogarty works at the intersection of bedside care, research, and quality improvement to help health systems move from data to action.



Anant Madabhushi | Emory University

Dr. Anant Madabhushi is the Robert W Woodruff Professor of Biomedical Engineering; and on the faculty in the Departments of Pathology, Biomedical Informatics, Urology and Radiology and Imaging Sciences at Emory University. He is also a Research Career Scientist at the Atlanta Veterans Administration Medical Center. Dr. Madabhushi has authored over 500 peer-reviewed publications and more than 225 patents issued or pending. He is a Fellow of the American Institute of Medical and Biological Engineering (AIMBE), Fellow of the Institute for Electrical and Electronic Engineers (IEEE), Fellow of the American Association for Advancement of Science (AAAS) and a Fellow of the National Academy of Inventors (NAI). His work on "Smart Imaging Computers for Identifying lung cancer patients who need chemotherapy" was called out by Prevention Magazine as one of the top 10 medical breakthroughs of 2018. In 2019, Nature Magazine hailed him as one of 5 scientists developing "offbeat and innovative approaches for cancer research". Dr. Madabhushi was named to The Pathologist's Power List in 2019, 2020, 2021 and 2022.

Anuj Kapadia | **Duke University**

Dr. Anuj Kapadia is a Distinguished Research Scientist and Section Head for Advanced Computing in Health Sciences at Oak Ridge National Laboratory (ORNL), and an Adjunct Professor of Radiology, Physics, and Medical Physics at Duke University. His work spans artificial intelligence, machine learning, analytics, and multiscale modeling, with applications in cancer research and broader healthcare domains. Dr. Kapadia brings over two decades of experience in Monte Carlo simulation, neutron and X-ray imaging, and data analytics for both medical and national security applications. His research has been supported by multiple federal agencies including the DOE, DOD, DHS, and NIH, and he is recognized for his leadership and innovation through numerous teaching, mentorship, and service awards. He has mentored more than 30 students and postdoctoral fellows and authored over 150 peer-reviewed publications. Dr. Kapadia is a senior member of IEEE and SPIE, and a Fellow of the American Association of Physicists in Medicine (AAPM). His work continues to shape the future of precision health through advanced computing and interdisciplinary collaboration.

MEET THE IMPACT TRACK KEYNOTES

8:10-10:10 | Feb 20, 2026

Blue Bird Circle Auditorium

Topic: ROI from AI

Cris Ross | Aegis Ventures

Mr. Cris Ross is Venture Partner with Aegis Ventures, Senior Advisor with Insight Partners, and a speaker, educator and consultant through Cris Ross Advisory. For more than 20 years he has been a leader in healthcare technology, helping to transform some of the largest and most complex healthcare organizations. He is a senior advisor to Insight Partners and board member for CaringBridge and University Enterprise Laboratories.

Cris was Chief Information Officer at Mayo Clinic from 2012-2024 leading large scale technology transformation and digitization programs. Previously he was CIO at CVSHealth / MinuteClinic and Optum Behavioral Health, and was Executive Vice President for Interoperability at Surescripts. He also served as chair of the board of Healthcare Information Management Systems Society (HIMSS) from 2019-2024 and has served on boards of start-up technology companies and advisory committees for the U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, and the U.S. Veteran's Administration.

He is a two-time cancer survivor and patient advocate, co-author of *Diagnosed: An Insider's Guide for Your Healthcare Journey* with Ed Marx. Cris is a frequent lecturer and speaker on the role of artificial intelligence and advanced data management in healthcare, management of technology in complex organizations, healthcare management and economics, and patient-centered care.

Cris holds a B.S. in Economics from the University of Minnesota and an MBA from Yale School of Management.

Nassib Chamoun | Health Data Analytics Institute

Mr. Nassib Chamoun is a successful serial healthcare entrepreneur, researcher, and inventor. He is founder and CEO of Boston-based Health Data Analytics Institute (HDAI), a predictive-AI company that developed and introduced the first EHR embedded enterprise AI platform HealthVision™, to reduce the cognitive burden for clinicians and help leading health systems, ACOs, and payers improve population health, care delivery and economics. Prior to HDAI, Chamoun founded and led Aspect Medical Systems a Nasdaq traded company that pioneered and established the worldwide market for EEG based depth-of-anesthesia BIS™ monitoring technology, which has helped transform anesthesia delivery and outcomes. Chamoun earned a BS in Electrical Engineering from Northeastern University and a MS in Computer Engineering from Boston University. He was Chairman of the Lown Institute (2009-2020), member emeritus of the Northeastern University Corporation, Vice President of the Anesthesia Patient Safety Foundation, and currently serves on the Board of Trustees for Beth Israel Deaconess Hospital – Needham. Chamoun holds 14 patents for physiological monitoring and processing technology and is published widely in scientific journals.

MEET THE EDUCATION & WORKFORCE DEVELOPMENT TRACK KEYNOTES

10:30-12:30 | Feb 20, 2026

Blue Bird Circle Auditorium

Session Chair:

Susan H. Fenton | UTHealth Houston

Dr. Fenton is a professor and the first McWilliams Vice Dean for Education. In addition, she directs the Center for Quality Health IT Improvement. Fenton's research focus areas include workforce development, ICD-11, and the optimal use of health information technology for chronic and preventive care in low-resource settings. In 2019, Dr. Fenton received the UT System Regent's Outstanding Teaching Award. The next year, she was named as a member of The University of Texas Kenneth I. Shine, MD Academy of Health Science Education and awarded the title of UT System Distinguished Teaching Professor. Fenton later earned the UTHealth Houston President's Scholar Award for Teaching for 2021. During her time at the school, Dr. Fenton has led the creation of the school's newest degree, the Doctorate in Health Informatics, and directed the effort to make updates to the Master's program so it could earn CAHIIM accreditation.

Jamboor Vishwanatha | **University of North Texas**

Dr. Vishwanatha is a Regents Professor and Vice President, and Founding Director of the Texas Center for Health Disparities at the University of North Texas Health Science Center at Fort Worth. He is the lead principal investigator of the Artificial Intelligence and Machine Learning to Advance Health Equity and Researcher Diversity (AIM-AHEAD) Coordinating Center. He is also the principal investigator of the National Research Mentoring Network (NRMN), a NIH Common Fund initiative to provide mentorship, networking and professional development for a diversified biomedical and behavioral workforce. In addition, Dr. Vishwanatha leads the NIH Specialized Center of Excellence in Minority Health and Health Disparities, the Texas CEAL Consortium, the John Lewis NIMHD Research Endowment, RO1 award from NCI and a CPRIT project. Dr. Vishwanatha received the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM) from US White House in October 2019 and in January 2025. Dr. Vishwanatha received his Ph.D. in biological sciences from the University of South Carolina in 1983. Dr. Vishwanatha's research is in cancer molecular biology, experimental therapeutics and nanotechnology. His laboratory is investigating genetic markers that predict development of aggressive prostate and breast cancers, and nanotechnology-based therapies for breast and prostate cancers. His research is funded by NIH, DOD and other agencies. Dr. Vishwanatha is actively involved in mentorship and networking programs to diversify the biomedical research workforce, and has mentored numerous undergraduate and graduate students from underrepresented groups in biomedical sciences. As the founding director of the Texas Center for Health Disparities, a Specialized Center of Excellence funded by the National Institutes of Health, he has directed health disparity research, education and community outreach programs. For the past 18 years, he has organized the annual Texas Conference on Health Disparities that attract national speakers and participants. He serves on the external advisory committees for University of Puerto Rico-Cayey, PR; St. Mary's University, San Antonio, Texas; Alabama State University, Montgomery, Alabama; Louisiana State University, Baton Rouge, and Savannah State University, Savannah, Georgia. He has been an active member of the AACOM Diversity Council, AAMC GREAT Group, SACNAS and ABRCMS.

Pothik Chatterjee | Houston Methodist-Rice Digital Health Institute

Pothik Chatterjee is the Executive Director of the Houston Methodist-Rice Digital Health Institute. He brings more than 15 years of leadership experience in digital health, biotech and AI. Previously, he led innovation and operations at Brigham & Women's Hospital in Boston, forging partnerships with Apple, Microsoft and AWS. At DHI, he advances cross-sector collaboration in digital care, precision medicine and data science. He holds degrees from Georgetown, Johns Hopkins and Harvard Business School.

Litao Wang | McGovern Medical School

Dr. Litao Wang is an assistant professor and the Director of Educational Technology at the Office of Educational Programs at McGovern Medical School. With over 20 years of experience in academic technology, she offers expertise in instructional design and educational technology to the medical school and residency programs. She collaborates with faculty to create a learner-centered, active-learning environment, leveraging tools such as learning management systems, audience response systems, computer-based assessments, and, most recently, generative AI.

MEET THE WORKSHOPS PRESENTERS

10:30 - 12:30 | Feb 20, 2026

Room N.0700.20

Topic: Smart Psychiatry in the Age of Generative AI: Techniques, Solutions, and Future Directions

Ming Huang | **UTHealth Houston**

Dr. Ming Huang, PhD, is an Associate Professor at the Center of Translational AI Excellence and Applications in Medicine (TEAM-AI) within the McWilliams School of Biomedical Informatics at UTHealth Houston. Before joining UTHealth in 2023, Dr. Huang served as an Assistant Professor of Biomedical Informatics at the Mayo Clinic.

His research focuses on advancing healthcare through AI and data science, with a specialized emphasis on Large Language Models (LLMs) and Generative AI (GenAI) for mental and behavioral health. Dr. Huang has authored over 60 peer-reviewed publications with more than 1,400 citations. He has pioneered several innovative deep learning frameworks, including SBERT-CNN for detecting depression in social media users, distantly supervised LLMs for identifying major depressive disorder phenotypes, and multi-label classification frameworks to detect suicidality and related factors.

Dr. Huang's work is supported by significant NIH funding; he currently serves as a Site PI on an NIH R34 project developing AI-driven digital interventions for social media users and previously led AI efforts for an NIH R01 project on the computational phenotyping of mental health disorders.

Beyond his research, Dr. Huang actively contributes to the broader scientific community through service on NIH and NSF review panels. He provides editorial and review services for prestigious journals and conferences, including The Lancet – Regional Health, JAMA Internal Medicine, and JAMIA. Additionally, he has served as a Guest Associate Editor for Frontiers in AI and Frontiers in Big Data, and as the Publication Chair for IEEE ICHI.

Room N.0725.05

Topic: The Future Supply Chain: MD Anderson's AI Strategy

Raul Davilla | **UT MD Anderson**

Room N.0725.01

Topic: Building AI Agents for Healthcare: A Practical Introduction Using Retrieval-Augmented Generation

Mikael Guzman-Karlsson | **Baylor College of Medicine**

Dr. Mikael Guzman-Karlsson, PhD, MD: As a pediatric neurologist specializing in neurodevelopmental disabilities and currently in a clinical informatics fellowship, Mikael is deeply passionate about pediatric medicine and neuroscience.

In his practice, Mikael focuses on pediatric patients with Mendelian disorders of the epigenetic machinery. He aims to leverage informatics-based approaches, including electronic health records, clinical decision support systems, health information exchanges, and predictive analytics, to improve diagnoses and personalize healthcare interventions for children with complex neurological conditions.

Additionally, Mikael is committed to promoting diversity, equity, and inclusion in patient care and graduate medical education, striving to improve healthcare outcomes for underrepresented communities.

TMC RESEARCH SPOTLIGHTS

Feb 19, 2026 | Blue Bird Circle Auditorium

Foundation Track:

- **Jaerong Ahn**
  - An Agentic Model Context Protocol Framework for Medical Concept Standardization
- **Yi-chang Ting**
  - Inference-Time Guided Diffusion for PROTAC Linker Design
- **Jagan Mohan Reddy**
  - A Multi-Scale Linear-Time Encoder for Whole-Slide Image Analysis
- **Laxmigayathri Challa**
  - Toward Reliable Synthetic Lung Cancer Data: An Ontology-Guided LLM Framework
- **Yihong Yang**
  - Multimodal Protein Foundation Models for Variant Effect Prediction and Sequence–Structure Co-Design

Opportunities Track:

- **Jinlian Wang**
  - AI-Powered Knowledge Integration for Perioperative Organ Injury: Multi-Site Validation of the POI-KB Platform
- **Jahnavi Anilkumar Kachhia**
  - Enhancing Early Diabetes Screening Through Machine Learning and Explainable AI
- **Ashwin Rao**
  - Building a Scalable Health Data Platform to Accelerate AI and Translational Impact in Academic Medicine
- **Jaeyeon Lee**
  - LA-MARRVEL: A Knowledge-Grounded and Language-Aware LLM Reranker for AI-MARRVEL in Rare Disease Diagnosis

- **Yuhan Zhou**
    - Quality-Aware Data Fusion for Medical Concept Normalization using LLMs

Impact Track:

- **Gini Wei Weng Wong**
    - Liability in Health Artificial Intelligence: A Scoping Review
- **Dhini Nasution**
    - Reducing Manual Chart Review in SNF/LTC Through Evidence-Linked Suspect Gap Detection: A 12-Month Operational and Patient-Centered Outcomes Case Study
- **Debolina Das**
    - Self-Supervised Masked Token Pretraining for Motor Imagery EEG Using a Frozen DCNet Encoder for Cross-Subject Transfer Learning
- **Mikael Guzman-Karlsson**
    - From Knowledge Gaps to Clinical Action: Implementation and Evaluation of a Retrieval-Augmented AI Clinical Assistant in Pediatric Neurology
- **Joshua Robert VasculatorAI**
    - A Dual-Engine Platform Combining Evidence-Based Risk Stratification with Specialized LLM Support

STUDENT RESEARCH SHOWCASE

Feb 19, 2026 | Blue Bird Circle Auditorium

- **Nidhi Sharath** | **Plano East Senior High (IB World School)**
  - Automated Brain Tumor Segmentation Using Deep Learning and U-Net Architectures
- **Jorge Botas** | **Baylor College of Medicine**
  - Closing the Loop: A Single-Cell Foundation Model for Predictive Perturbation and In Vivo Validation of Neurodegenerative Disease Modifiers
- **Zachary Everton** | **Baylor College of Medicine**
  - MARRVEL-MCP: A Context-Engineered Natural-Language Query-to-Response Interface for Mendelian Disease Discovery
- **Alex Sansom** | **Rice University**
  - AI-Powered Pediatric Prosthetic Hand
- **Shuyu Lu** | **UTHealth Houston**
  - Perioperative Digital Twin: A Dynamic Postoperative Organ Injury Risk Stratification Framework
- **Ilia Buralkin** | **Baylor College of Medicine**
  - Weakly Supervised Learning for Pediatric Lung Ultrasound using Operational Clinical Data
- **Amarachi Njoku** | **UTHealth Houston**
  - AI Assisted Medication Reconciliation Using Workflow Orchestration to Support Pharmacist Review at Hospital Transitions of Care
- **Anita Sumali** | **Texas A&M School**
  - Evaluating Safety & Empathy in Large Language Model Responses to Suicide-Related Prompts

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Texas Medical Center Innovations

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UTHealth Houston

Xiaoning Qian, PhD

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Devika Subramanian, PhD

Rice University

Ioannis Kakadiaris, PhD

University of Houston

Zhandong Liu, PhD

Texas Children's Hospital/BCM

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UTHealth Houston

Pranav Mehta

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UTHealth Houston

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UTHealth Houston

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Student Research Showcase co-Chair

Baylor College of Medicine

Rubab Ali

Event Manager

UTHealth Houston

Alexis Symons

Sponsorship Liaison

UTHealth Houston

Claudia Antone

Logistics Specialist

Texas Children's Hospital

Poster Presentation

Ayesha Khalid | UTMB | Designing Reliable, Grounded Generative AI Systems for Health-Aligned Workflows: Lessons from a Retrieval-Augmented Virtual Teaching Assistant

Hui Li | McWilliams School of Biomedical Informatics at UTHealth, Houston | Hybrid temporal graph, ODE, and VAE modeling for high-resolution cellular trajectory inference in liver injury

Madison Wright | Banting AI | Toward Protocol Intelligence: AI-Assisted Protocol Structuring for Accurate, Efficient Clinical Research

Shragvi Balaji | Baylor College of Medicine | Less is More? Traditional NLP Outperforms Transformers in Orthopaedic Surgical Triage

Abou Bakr Salama | Baylor College of Medicine | Machine Learning–Based Mortality Prediction in Heart Failure with Preserved Ejection Fraction Using Real-World EHR Data

Jaeyeon Lee | Baylor College of Medicine | LA-MARRVEL: A Knowledge-Grounded and Language-Aware LLM Reranker for AI-MARRVEL in Rare Disease Diagnosis

Ilia Buralkin | Baylor College of Medicine | scDeepVariant: A population-informed deep learning framework for germline variant calling in scRNA-seq

Ilia Buralkin | Baylor College of Medicine | Weakly Supervised Learning for Pediatric Lung Ultrasound using Operational Clinical Data

Nisha Jagannathan | Baylor College of Medicine | Atheoretical and Theoretical Applications of Machine Learning Techniques to Facilitate Precision Psychiatry

Juliana Yue | Baylor College of Medicine | Genomic discovery of polymorphic inverted repeat Alu pair mediated exon-skipping

Daniel Palacios | Baylor College of Medicine | ClinPreAI: An Agentic AI System for Early Postpartum Depression Risk Prediction from Multimodal EHR Data

Daniel Palacios | Baylor College of Medicine | AI-Assisted Construction of Comprehensive Pediatric Type 1 and Type 2 Diabetes Cohorts from Multimodal EHR Data for Clinical Outcomes Prediction

Seon Young Kim | Baylor College of Medicine | REDCap Assistant: A Multi-Agent Clinical AI System for Automated Patient Registry Curation from Epic Clarity EHR Data

Jorge Botas | Baylor College of Medicine | Closing the Loop: A Single-Cell Foundation Model for Predictive Perturbation and In Vivo Validation of Neurodegenerative Disease Modifiers

Zachary Everton | Baylor College of Medicine / PhD Student | MARRVEL-MCP: A Context-Engineered Natural-Language Query-to-Response Interface for Mendelian Disease Discovery

Matthew Bayes, MD, MPH | Baylor College of Medicine / Texas Children’s Hospital | A Modular Retrieval-Augmented Pathology Lookup Agent to Improve Access to Laboratory Knowledge

Yueqian Deng | Baylor College of Medicine & Data Science Center, Jan and Dan Duncan Neurological Research Institute, Texas Children’s Hospital, Houston, Texas | Image-Based AI Model for CNV Pathogenicity Prediction Using Genome Browser Visual Context

Mikael Guzman-Karlsson | Baylor College of Medicine | Texas Children's Hospital | Building AI Agents for Healthcare: A Practical Introduction Using Retrieval-Augmented Generation

Mikael Guzman-Karlsson | Baylor College of Medicine | Texas Children's Hospital | From Knowledge Gaps to Clinical Action: Implementation and Evaluation of a Retrieval-Augmented AI Clinical Assistant in Pediatric Neurology

Johnathan Jia | Baylor College of Medicine, Texas Children's Hospital | Semi-supervised Automated Detection of Gastrointestinal Mucosal Atrophy in Endoscopic Imaging

Heid Dowst | Baylor College of Medicine/UT Health | Multimodal Multi-Agent AI for Extraction of Pancreatic Cancer Treatment Response from Real-World Clinical Data

Anup Philip Zachariah | Crane CPE | Agentforce for Pediatric Care Coordination: Closing Referral-to-Follow-Up

Alex Sansom | Department of Bioengineering, Rice University | AI-Powered Pediatric Prosthetic Hand

Yian Hu | Department of Health Data Science and Artificial Intelligence, McWilliam School of Biomedical Informatics | Phase-Aware Transformer Fusion for Adrenal Lesion Classification in Real- World Multiphase CT

Joshua Robert | EnMed, Texas A&M School of Engineering Medicine | Resolving the Long-Tail Problem in Cardiac AI: Stratified Deep Learning for Rare Arrhythmia Recognition

Joshua Robert | EnMed, Texas A&M School of Engineering Medicine | VasculatorAI: A Dual-Engine Platform Combining Evidence-Based Risk Stratification with Specialized LLM Support

Joshua Robert | EnMed, Texas A&M School of Engineering Medicine | VascuVision: Real-Time Computer Vision for Intraoperative Endovascular Safety

Shalini Singh | Johns Hopkins Bloomberg School of Public Health | OraPredict: A Clinical ChatBot for early detection and prediction of the risk of Oral Cancers using contextual EHR Analysis

Guanghao Li | McWilliams School of Biomedical Informatics at UTHealth Houston | Direction-Aware Calibrated Multi-Horizon Risk Prediction of AD Dementia Progression from Longitudinal Blood DNA Methylation

Xiaomeng Wang | McWilliams School of Biomedical Informatics, University of Texas Health Science Center at Houston | Large Language Models for Temporal PHI De-identification in Real-World Clinical Notes: Performance and Limitations

Raul Davila | MD Anderson | The Future Supply Chain: MD Anderson's AI Strategy

Ivan Coronado | MD Anderson Cancer Center | Benchmarking Foundation Models for Pathological Chest X-ray Anomaly Detection: A Standardized Evaluation Framework

Ming Hsiu Wu | McWilliams School of Biomedical Informatics, University of Texas Health Science Center at Houston | Towards Precision Protein-Ligand Affinity Prediction Benchmark: A Complete and Modification-Aware DAVIS Dataset

Yi-Ching Tang | McWilliams School of Biomedical Informatics, University of Texas Health Science Center at Houston|| Inference-Time Guided Diffusion for PROTAC Linker Design

Adel Sisy | Online Knowledge | Delta Protein Atlas

Fitia Rakoto | ParaDocs | Translating Electronic Clinical Quality Measures into Scalable, Auditable Data Pipelines using Data Build Tool (DBT)

Omar Mohtar | ParaDocs Health | Reducing Manual Chart Review in SNF/LTC Through Evidence-Linked Suspect Gap Detection: A 12-Month Operational and Patient-Centered Outcomes Case Study

Omar Mohtar | ParaDocs Health | From Principles to Practice: A Hands-On Tutorial for AI Ethics, Safety, and Governance in Healthcare

Nidhi Sharath | Plano East Senior High (IB World School) | Automated Brain Tumor Segmentation Using Deep Learning and U-Net Architectures

Shuyu Lu | McWilliams School of Biomedical Informatics, University of Texas Health Science Center at Houston | Perioperative Digital Twin: A Dynamic Postoperative Organ Injury Risk Stratification Framework

Anita Sumali | Texas A&M School of Engineering Medicine | Evaluating Safety & Empathy in Large Language Model Responses to Suicide-Related Prompts

Pei-Hung Chung | Texas A&M University | Neural machine translation of clinical procedure codes for medical diagnosis and uncertainty quantification

Emilio Mendiola | Texas A&M University | A Transfer Learning Model to Predict Left Ventricle End-Diastolic Pressure from Cardiac Strains

Tanmay Mukherjee | Texas A&M University | Whole-Heart Anatomy Generation from Multi-View MRI: Toward Cardiac Digital Twins

Yining Yang | Texas A&M University | Pannot-FG: Fine-Grained, Evidence-Grounded Reasoning Model for Protein Understanding

Rana Raza Mehdi | Texas A&M University | Multi-Fidelity Deep Learning for Estimation of Infarcted Myocardium From Strain Imaging.

Dongkwan Kim | Texas A&M University | PerturbReason: Mechanistic Virtual Cell Model through Knowledge-Grounded Reasoning

Yihong Yang | Texas A&M University | Multimodal Protein Foundation Models for Variant Effect Prediction and Sequence–Structure Co-Design

Morgan Lilly | Texas A&M University School of Engineering Medicine | Evaluating Safety & Empathy in Large Language Model Responses to Suicide-Related Prompts

Zhandong Liu | Texas Children's Hospital/BCM | Using Local LLMs for Biomedical Informatics and Clinical Data Analysis

Jennifer Benjamin | Texas Childrens Hospital | Journal Club Reimagined: A Learner-Centered approach using AI

Jennifer Benjamin | Texas Childrens Hospital, Baylor College of Medicine | Can AI Democratize Learning? An Educational Design Research Approach Using CustomGPTs for Clinical Reasoning Skills Teaching

Yue Zhang | The University of Texas Health Science Center at Houston | Comparative Analysis of Machine Learning Models for Heart Disease Prediction: Evidence from the Behavioral Risk Factor Surveillance System

Amarachi Njoku | The University of Texas Health Science Center, Houston | AI Assisted Medication Reconciliation Using Workflow Orchestration to Support Pharmacist Review at Hospital Transitions of Care

Amarachi Njoku | The University of Texas Health Science Center, Houston | AI Assisted Medication Reconciliation Using Workflow Orchestration to Support Pharmacist Review at Hospital Transitions of Care

Kareem Abdelghani | The Woodlands Retina Center | AI-Generated Health Information and Its Influence on Self-Management Behaviors Among Adults with Diabetes

Yuhan Zhou | Universe of North Texas | Quality-Aware Data Fusion for Medical Concept Normalization using LLMs

Jagan Mohan Reddy Dwarampudi | University of Houston | A Multi-Scale Linear-Time Encoder for Whole-Slide Image Analysis

Md Ishtyaq Mahmud | University of Houston | Hybrid Spatially Regularized NMF and Marker-Guided Benchmarking: A Unified Framework for Interpretable Spatial Transcriptomics in Cancer

Debolina Das | University of Houston | Self-Supervised Masked Token Pretraining for Motor Imagery EEG Using a Frozen DCNet Encoder for Cross-Subject Transfer Learning

Yomna Abdelghani | University of Houston | Use of AI-Generated Health Information among Individuals with Mental Health Diagnoses: Patterns of Engagement and Implications for Professional Care

Sohail Abdelghani | University of Houston | Beliefs and Perceptions of AI-Generated Health Information Among College Students: Opportunities for Healthcare Engagement

Nehaa Balaji | University of Houston | PsyMatch: An AI-Based Clinical Decision Support Prototype for Personalized Mental Health Treatment Recommendations

Gowtham Vuppaladhadiam | University of North Texas | CareLens: A Clinical Decision Support Assistant Leveraging Multimodal EHR Data

Ananya Agarwal | University of North Texas | Efficient Depression Detection from Social Media Posts Using Hybrid Deep Learning

Ajita Rattani | University of North Texas | AI based BMI Prediction from Facial Images

Laxmigayathri Challa | University of North Texas | Toward Reliable Synthetic Lung Cancer Data: An Ontology-Guided LLM Framework

Laxmigayathri Challa | University of North Texas | HealthAdvisor: A Sense-Making–Enhanced Retrieval-Augmented Generation (RAG) System for Healthcare Applications

Yuhan Zhou | University of North Texas | Data Fusion and Quality Enhancement for Medical Concept Normalization using LLMs

S M Saiful Islam Badhon | University of North Texas, Denton, TX | AUM-ST–Driven Vision Transformer Framework for Low-Resource Diabetic Retinopathy Screening

Kostiantyn Botnar | University of Texas Medical Branch at Galveston | Identifying Risk Factors for a Post-Discharge Recurrent Bacterial Infection in Burn Patients: A Machine Learning Analysis of Electronic Health Records

Emre Umucu | UT El Paso/South Texas VA Medical Center | Using Explainable Modeling to Architect a Future AI System for Trauma-Informed Vocational Rehabilitation

Jaerong Ahn | McWilliams School of Biomedical Informatics, University of Texas Health Science Center at Houston | An Agentic Model Context Protocol Framework for Medical Concept Standardization

Xiaoyang Ruan | McWilliams School of Biomedical Informatics, University of Texas Health Science Center at Houston | A Self-Explainable Dynamic Risk Monitoring Framework for Predicting Alzheimer's Disease and Related Dementias

Alfonso Rojas-Alvarez | UTEP | Age Disparities in Vocational Rehabilitation Program Completion: Understanding Early Exits and Their Impact

Jack Banks | UTHealth Houston | PrioritiesAI: Using Agile Sprints to Accelerate Translation of User-Centered Conversational AI to Enhance Surgical Decision-Making

Zhongwei Jin | Yale University | Validation and Enhancement of Automated EEG-based Prediction of Delayed Cerebral Ischemia Following Subarachnoid Hemorrhage: A Multi-Center Study

ACKNOWLEDGMENTS

We extend our sincere gratitude to everyone who contributed to the success of the TMC AI Summit 2026. This event would not have been possible without the dedication, hard work, and support of our volunteers, partners, and community members. Thank you for helping us bring this vision to life.

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Thank you for your continued support and participation in the TMC AI Summit 2026!

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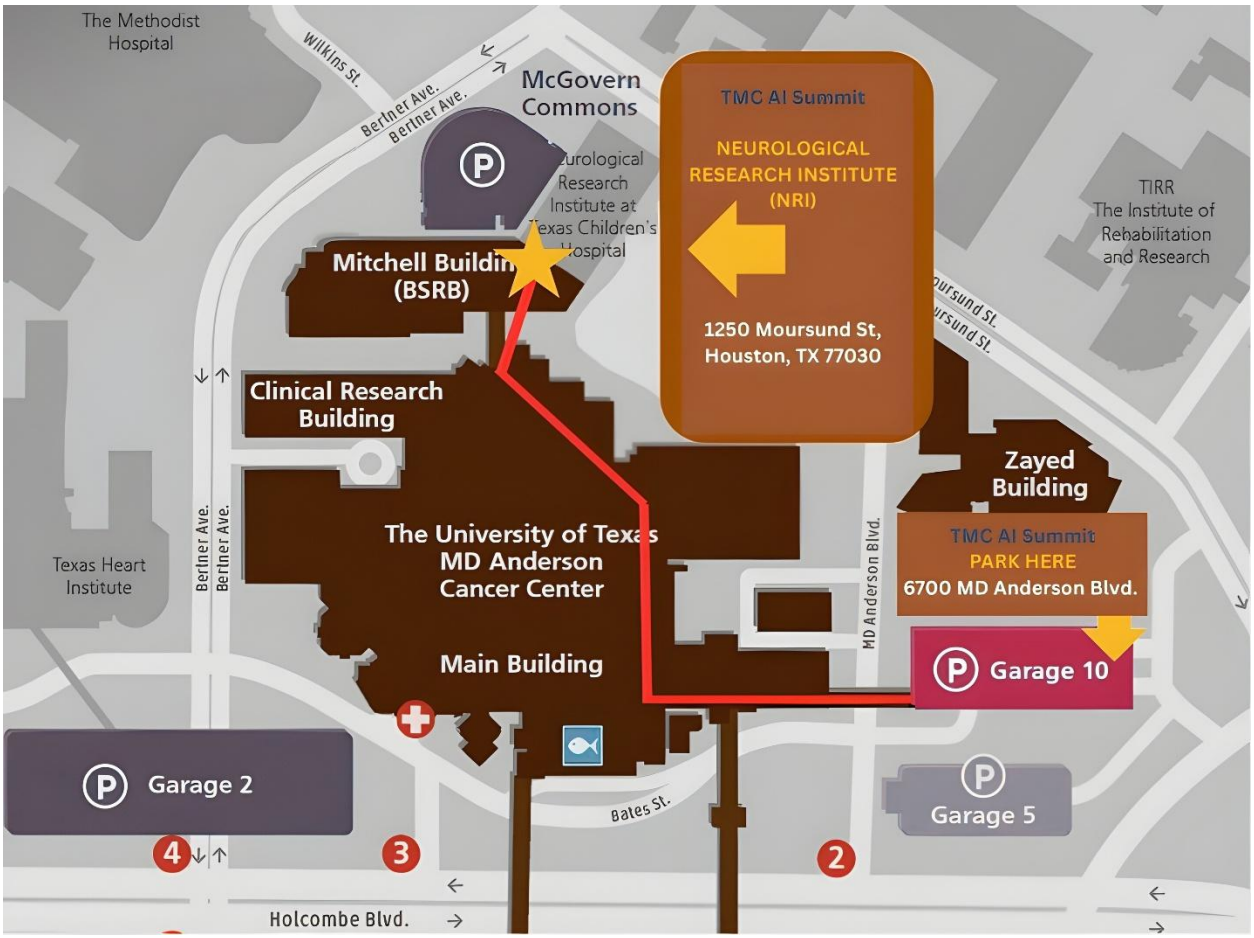
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NEUROLOGICAL RESEARCH INSTITUTE (NRI)
1250 Moursund St, Houston, TX 77030
TIRR The Institute of Rehabilitation and Research
Mitchell Building (BSRB)
Clinical Research Building
Zayed Building
The University of Texas MD Anderson Cancer Center
Main Building
TMC AI Summit
PARK HERE
6700 MD Anderson Blvd.
Garage 10
Garage 2
Garage 5
Texas Heart Institute
Bates St.
Holcombe Blvd.
MD Anderson Blvd.