Hosted By: Yale Center for Clinical Investigation & Yale Biomedical Informatics & Computing

2026 Yale Medical AI Symposium

March 26, 2026 | 101 College Street, New Haven, CT

Agenda

Please note that panel details and speakers may be subject to change. Visit https://yale-medical-ai.org/ for updates.

7:00 – 8:00 AM **Registration & Continental Breakfast**

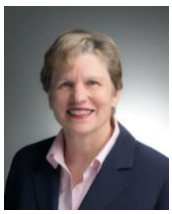
- Check-in and Networking
- Light Breakfast provided
- Posters may be set up during this time

8:00 – 8:15 AM **Welcome & Opening Remarks**

Speakers:

Lucila Ohno-Machado, MD, MBA, PhD
Deputy Dean for Biomedical Informatics; Chair of Biomedical Informatics and Data Science; Professor of Medicine and Biomedical Informatics and Data Science, Yale School of Medicine

"Welcome"



Nancy J. Brown, MD
Dean of the Yale School of Medicine and C.N.H. Long Professor of Internal Medicine, Yale School of Medicine

"Opening Remarks"

8:15 – 9:00 AM **Keynote Presentation**

Speaker:

Susan J. Gregurick, PhD
Associate director of data science, National Institutes of Health

"Engineering the Future: Data Science, AI and Beyond"

9:00 – 10:00 AM **Session I: AI in Clinical Practice**

Session Chair:

Allen Hsiao, MD, FAAP, FAMIA
Professor of Pediatrics (Emergency Medicine) and of Biomedical Informatics & Data Science, Yale School of Medicine; Chief Health Information Officer, YNHHS

Speakers:

Rohan Khera, MD, MS
Associate Professor of Cardiovascular Medicine; Director of Cardiovascular Data Science Lab, Yale School of Medicine

"Transforming Cardiovascular Care and Accelerating Discovery with Artificial Intelligence"

Jeremy Warner, MD, MS, FAMIA, FASCO
Professor of Biostatistics; Professor of Medicine, Brown University

"The Present and Future of Knowledge Representation in Hematology and Oncology"

Richa Sharma, MD, MPH
Associate Professor of Neurology, Yale School of Medicine

"Artificial Intelligence to Prevent Recurrent Stroke"

Andrew Taylor, MD, MHS
Professor of Emergency Medicine; Vice Chair of Research and Innovation, University of Virginia

"AI Agents, Automation, and Value Representation in Medicine"

10:00 – 10:15 AM **Coffee Break**

- Refreshments & Networking

10:15 – 11:15 AM **Session II: LLMs, AI Agents, and Applications**

Session Chair:

Yize Zhao, PhD
Associate Professor of Biostatistics and Associate Professor of Biomedical Informatics & Data Science, Yale School of Public Health

Speakers:

Andrew Loza, MD, PhD
Instructor of Biomedical Informatics and Data Science; General Pediatrics, Yale School of Medicine

"Multimodal Medical Foundation Models for Risk Prediction and Treatment Effect Estimation"

Jaideep Talwalkar
Professor of Internal Medicine and Pediatrics; Associate Dean for Education Technology and Innovation; Director of Clinical Skills, Yale School of Medicine

"AI in Medical Education at YSM"

Yonghui Wu, PhD
Associate Professor of Health Outcomes & Biomedical Informatics, University of Florida | Chief Data Scientist & Director of Natural Language Processing UF Clinical and Translational Science Institute

"Generative AI to Improve Medical Discovery and Healthcare"

Hua Xu, PhD
Professor of Biomedical Informatics and Data Science; Vice Chair for Research and Development, Department of Biomedical Informatics and Data Science; Associate Dean for Biomedical Informatics, Yale School of Medicine

"From LLMs to Agents: AI Applications in Medicine"

11:15 AM – 12:15 PM **Thematic Session III: Multimodal Data - Clinical, Imaging, Genomics and more**

Session Chair:

Chi Liu, PhD
Professor of Radiology and Biomedical Imaging, Yale School of Medicine; Associate Director of Biomedical Imaging Technology, Yale Biomedical Imaging Institute; Director for Research Faculty Affairs, Radiology & Biomedical Imaging

Speakers:

Georges El Fakhri, PhD, DABR
Director, Yale Biomedical Imaging Institute; Director, Yale PET Center; Vice-Chair; Professor of Radiology & Biomedical Imaging; Professor of Biomedical Informatics & Data Science, Yale School of Medicine

"Successes and Challenges of Deep Learning in Medical Imaging"

Qingyu Chen, PhD
Assistant Professor of Biomedical Informatics and Data Science, Yale School of Medicine

"Multimodal AI in Medicine: From Ophthalmology to Broader Medical Applications"

Thibault Marin, PhD
Assistant Professor of Radiology and Biomedical Imaging, Yale School of Medicine

"Deep Learning in Quantitative Imaging"

Maria Rodriguez Martinez, PhD, MSc
Associate Professor of Biomedical Informatics and Data Science, Yale School of Medicine

"Modeling Flexible Proteins for Generative AI"

12:15 – 1:30 PM Poster Session 1 & Lunch

- Open Seating
- Poster Discussions & Networking

Board #	Presenter	Title
1	Kent McCann	Continuous-Value Tokenization Improves Medical Foundation Model Performance
2	Shawn Wahi	Predicting renal cell carcinoma outcomes from clinical trial data using multimodal genomic foundation models
3	Muhammad Munshi	NurseGPT: Evaluating Patient Engagement with a Voice-Enabled AI Assistant in Facial Plastic Surgery
4	Nicholas Wells	Building an AI Platform for Intraoperative Image Analysis: A Validated Pilot in Vascular Access Quality Improvement
5	Maureen Canavan	Understanding the Role of Large Language Models in Cancer Mortality Prediction: A Real-World Study
6	Oscar Murillo Gomez	An AI-Guided In Silico Decision Engine for Prioritizing CRISPR/Cas9-Based Cancer Vaccine Targets from Tumor Genomics
7	Ashti Shah	Urology Copilot: Constraining Large Language Models to Clinical Algorithms for Safer, Evidence-Based Clinical Decision Support
8	Xinyu Wei	Decoding mtDNA Quality with a DNA Foundation Model: Quantifying Long-Read vs. Short-Read Sequencing Bias Using Evo2 Likelihood Scoring
9	Katie Howard	Standardizing NF2-Related Schwannomatosis Surveillance Using AI-Based 3D Tumor Segmentation
10	Shanin Chowdhury	Impact of an Ambient AI Scribe on Resident Physician Workload and Documentation Burden: A Pre-Post Quality Improvement Study
11	Alec Rutherford	Large Language Models and Counseling for Trisomy 13 and 18
12	Tianxiao Wei	AI-Driven Estimation of Patient Out-of-Pocket Costs
13	Jianxiang Gao	When Domain-Specific Pretraining Falls Short: Diagnosing and Adapting Ultrasound Foundation Models via Reinitialized Transformer Blocks
14	Richa Sharma	Application of a Large Language to Infer Ischemic Stroke Etiology and Elucidating its Diagnostic Reasoning
15	Alex Choi	ChatGPT vs. Physician: Quality and Medicare Acceptability of Certifications of Terminal Illness

1:30 – 2:30 PM Thematic Session IV: Ethics, Privacy, and Implementation in Medical AI

Session Chair:

Jennifer E. Miller, PhD
Co-Director, Program for Biomedical Ethics; Associate Professor of Medicine (Internal Medicine), Yale School of Medicine

Speakers:

Yong Chen, PhD, FASA, FACMI
Professor of Biostatistics; Senior Scholar at Center for Clinical Epidemiology & Biostatistics, University of Pennsylvania

"Empowering Your Study Via Federated Learning Using PDA"

Griffin Weber, MD, PhD
Associate Professor of Medicine, Beth Israel Deaconess Medical Center | Associate Professor of Biomedical Informatics, Harvard Medical School

"1000 Phenotypes: Scalable Automated Computational Phenotyping in i2b2"

Adrian H. Zai, MD, PhD, MPH
Chief Research Informatics Officer & Associate Professor of Population and Quantitative Health Sciences, UMass Chan Medical School

"Principles for AI Translation in Healthcare: Progress from the CTSA Network"

Hyunghoon (Hoon) Cho, PhD
Assistant Professor of Biomedical Informatics & Data Science and of Computer Science; Director of Graduate Admissions, Human Genome Sciences, Yale School of Medicine

"Enabling Privacy-Preserving Collaboration in Genomic Medicine"

2:30 – 3:30 PM **Panel: Cross-CTSA Collaboration on Medical AI**

Moderator:

Daniella Meeker, PhD
Associate Professor of Biomedical Informatics & Data Science, Yale School of Medicine | Chief Research Information Officer, Yale New Haven Health System

Panelists:

Lee H. Schwamm, MD
Associate Dean, Digital Strategy & Transformation, Professor in Biomedical Informatics & Data Science and Professor of Neurology, Yale School of Medicine | Senior Vice President & Chief Digital Health Officer, Yale New Haven Health System

Bhramar Mukherjee, PhD
Senior Associate Dean of Public Health Data Science and Data Equity; Professor of Biostatistics; Professor of Epidemiology (Chronic Diseases) and of Statistics and Data Science, Yale School of Public Health

Thomas R. Campion, Jr., PhD, FACMI, FAMIA
Chief Research Informatics Officer and Director of Biomedical Informatics, WCM Clinical & Translational Science Center | Professor of Research in Population Health Sciences, Weill Cornell Medicine

Karthik Natarajan, PhD
Assistant Professor of Biomedical Informatics, Columbia University

Kristi Holmes, PhD
Director, Galter Health Sciences Library; Associate Dean for Knowledge Management and Strategy; Professor, Preventive Medicine (Biostatistics and Informatics), Medical Education, Northwestern Medicine

3:30 – 3:35 PM Closing Remarks

Speaker:

John Krystal, MD
Robert L. McNeil, Jr. Professor of Translational Research and Professor of Psychiatry, of Neuroscience, and of Psychology; Chair, Department of Psychiatry; Physician-in-Chief of Psychiatry, Yale New Haven Hospital; Co-Director, Yale Center for Clinical Investigation

"Closing"

3:35 – 5:00 PM Poster Session 2 & Networking Reception

- Light Refreshments Provided
- Poster Discussions & Networking

Board #	Presenter	Title
1	Garrett Ash	Leveraging AI for Digital Phenotyping: Anticipating Lapses in Exercise for Adults with Type 1 Diabetes
2	Huan Li	Implementation of an Opioid Use Disorder (OUD) Machine-Learning Phenotype in Real-Time for the ADAPT Clinical Trial
3	Yukang Zeng	Power Agent: A Collaborative Multi-Agent Framework for Automated Statistical Power and Sample Size Determination
4	Raghavee Neupane	Artificial Intelligence in MedEd: What Helps, What Hinders, and Why It Matters
5	Varada Khanna	Automating Neurological Scoring for Parkinson's Disease Patients using LLM-Based Analysis of Patient-Clinician Interactions
6	Shivi Kumar	Physics-Informed Neural Networks Reveal Stability Thresholds Underlying Therapeutic Resistance in Glioblastoma
7	Lovedeep Dhingra	Single-Lead ECG-Age from Wearables as a Device-Agnostic Digital Biomarker of Cardiovascular Risk: Multisite and Prospective Validation
8	Anvi Sud	A Patient-Specific Digital Twin for Adaptive Radiotherapy of Non-Small Cell Lung Cancer
9	Oscar Murrilo Gomez	AI-Guided Design and Prioritization of Tunable Immunostimulatory RNA Sequences for Melanoma (SKCM) Cancer Vaccines
10	Oana Sandu	Optimizing Artificial Intelligence Models: Strategies from Neural Networks Tools Used in Risk Stratification and Outcome

11	Madeline Daquila	Who Lives, Who Dies, Who Tells Your Story? Comparing Sociobehavioral Comorbidity Detection by Natural Language Processing Versus Structured Bedside Screening in Major Elective Surgery
12	Julia Fu	Evaluation of an autonomous artificial intelligence-based diabetic retinopathy screening program in a federally qualified health center
13	Morgan Hardy	Artificial Intelligence-Supported Cognitive Behavioral Therapy Combined with Ketamine for Treatment-Resistant Depression
14	Tyger Lin	Identifying Pancreatic Cysts and Related Features in the National VHA using NLP and LLM
15	Walter Mathis	Automated Scoring and Thematic Extraction of Psychosis Symptoms from Long-Form Clinical Interviews Using Local Large Language Models

5:00 PM **Adjourn**