

Diagnosis in the Era of Digital Health and Artificial Intelligence: A Workshop

Committee

Daniel Yang

Chair

Daniel Yang, MD, is vice president of Artificial Intelligence (AI) and Emerging Technologies for Kaiser Permanente. In this role, Dr. Yang is responsible for ensuring quality oversight for all AI applications across the organization, including those used in clinical operations, research, education, and related administrative functions.

Dr. Yang was previously a program director of patient care at the Gordon and Betty Moore Foundation where he founded and led a \$120M philanthropic program focused on diagnostic excellence. In this capacity, he helped to establish several public-private partnerships to promote the responsible use of AI in healthcare including the National Academy of Medicine's AI Code of Conduct, the Coalition for Health AI, and the Health AI Partnership. He has also created "public good" infrastructure to support the development, implementation and evaluation of diagnostic AI algorithms, including publicly accessible clinical datasets and third-party evaluation services to independently assess algorithm performance. Dr. Yang has also advanced research methods for rigorously evaluating the clinical impact of AI and machine learning algorithms in real-world settings.

Dr. Yang is a practicing internal medicine physician. He completed his undergraduate and medical degrees at the University of Illinois Chicago, his internal medicine residency at the University of California, San Francisco and a fellowship in health care systems design at Stanford University

Julia Adler-Milstein

Member

Julia Adler-Milstein, PhD, is a renowned health IT researcher at the University of California, San Francisco (UCSF). She is a Professor in the Department of Medicine, Chief of the Division of Clinical Informatics and Digital Transformation, and Director of the Center for Clinical Informatics and Improvement Research. Dr. Adler-Milstein's research focuses on the intersection of health information technology and healthcare delivery. She has conducted extensive work on the impact of EHRs and interoperability on clinical workflow, patient safety, and healthcare quality. Her research, including over 200 articles, has been published in numerous high-impact journals, including the New England Journal of Medicine, Health Affairs, and JAMA. Dr. Adler-Milstein also serves as a consultant to federal and state agencies, including the Office of the National Coordinator for Health Information Technology and the California Department of Health Care Services. She is a member of the National Academy of Medicine and serves on the Board of the American Medical Informatics Association (AMIA). She holds a PhD in Health Policy from Harvard University and an AB in Human Biology from Stanford University.

Thomas Cudjoe

Member

Thomas K.M. Cudjoe, MD, MPH, MA, is the Robert and Jane Meyerhoff Endowed Professor, Assistant Professor of Geriatric Medicine and Gerontology at the Johns Hopkins School of Medicine. He leverages community-based strategies, mixed-methods and human centered design to understand and address social isolation. Dr. Cudjoe also serves on the Scientific Advisory Council for the Foundation for Social Connection and as the co lead to the Stakeholder Core for the Johns Hopkins Artificial Intelligence and Technology Collaboratory for Aging Research. His work has been featured in the New York Times, Wall Street Journal, NPR, and on Good Morning America. He is a Major in the US Army Reserve Corps. Dr. Cudjoe received his undergraduate degree (summa cum laude) in Cellular and Molecular Biology at Hampton University and was active in the Honors College and Army ROTC program. He graduated from Robert Wood Johnson Medical School and earned a master's in public health in health policy at Harvard School of Public Health. He completed his internal medicine residency Internal Medicine at Howard University Hospital and clinical and research fellowship at the Johns Hopkins School of Medicine. In 2023, Dr. Cudjoe completed a master's degree in social design at Maryland Institute College of Art.

Judy Gichoya

Member

Judy Gichoya, MD, is an associate professor at Emory university in Interventional Radiology and Informatics leading the HITI (Healthcare AI Innovation and Translational Informatics) lab. Her work is centered around using data science to study health equity. Her group works in 4 areas - building diverse datasets for machine learning (for example the Emory Breast dataset); evaluating AI for bias and fairness; validating AI in the real world setting and training the next generation of data scientists (both clinical and technical students) through hive learning and village mentoring. She serves as the program director for radiology:AI trainee editorial board and the medical students machine learning elective. She has mentored over 60 students across the world (now successful faculty, post doc, PHD and industry employees) from several institutions around the world. She has received several awards including the most influential radiology researcher in 2022, and is a 2023 Emerging Scholar in the National Academy of Medicine.

Gene Harkless

Member

Gene Harkless, DNSc, associate professor, and chair of the University of New Hampshire Department of Nursing has taught and led undergraduate and graduate program development there for 38 years.

A family nurse practitioner since 1980, she continues to practice at the Greater Seacoast Community Health Center. Dr. Harkless has focused her teaching on evidence-based practice, clinical judgement, and family nursing theory. Her scholarship includes work on the diagnostic process, clinical decision-making, quality improvement, and long-term care for frail elders. She has been awarded three Fulbright Scholar awards in Norway, India, and Indonesia over her career. In 2010, Dr. Harkless was named a Fellow of the American Academy of Nurse Practitioners and in 2014 she received the New Hampshire Nurse Practitioner Association Lifetime Achievement Award. In 2017, Dr. Harkless was selected by the Society to Improve Diagnosis in Medicine to serve on the Macy Foundation-funded national workgroup convened to develop an interprofessional curriculum to improve diagnosis in medicine. Dr. Harkless received her BSN from Duke University, her MSN FNP education at Vanderbilt, and her DNSc at Boston University.

Maia Hightower

Member

Maia Hightower, MD, MPH, MBA, is the CEO and Founder of Equality AI, and former EVP, Chief Digital Transformation Officer at University of Chicago Medicine. Dr. Hightower is a leading voice in the intersection of healthcare, digital transformation, and health equity. She is a champion for responsible AI, ensuring that the digital future of healthcare is equitable and just.

At Equality AI, we detect and bust AI bias in healthcare. We align AI strategy with outcomes and health equity through a technology platform for AI lifecycle management. Thus, enabling healthcare systems to realize the total value of their AI investments.

She is a 4-time C-suit physician executive with fifteen years of executive leadership spanning healthcare IT, medical affairs, and population health across four academic medical centers, clinically integrated networks, and healthcare tech companies.

She is an internationally sought after speaker on responsible AI and digital health equity for academic, government, consumer, and industry audiences.

Dr. Hightower received her BA at Cornell University, MD, and MPH, from the University of Rochester School of Medicine, followed by residencies in Internal Medicine and Pediatrics at the University of California, San Diego. She also holds an MBA from the University of Pennsylvania's Wharton School.

Michael Howell

Member

Michael Howell, MD, MPH, is the Chief Clinical Officer at Google, where he leads the team of clinical experts who provide guidance for Google's health-related products, research, and services. Michael's career has been devoted to improving the quality, safety, and science of how care is delivered and helping people get the best information across their health journey. An active investigator, he has published more than 100 research articles, editorials, and book chapters, and is the author of Understanding Healthcare Delivery Science, one of the foundational textbooks in the field. He previously served as the University of Chicago Medicine's Chief Quality Officer, was associate professor of medicine at Harvard Medical School and at the University of Chicago, and practiced critical care medicine for many years. He has also served as an advisor for the CDC, for the Centers for Medicare and Medicaid Services, and for the National Academy of Medicine.

Salahuddin Kazi

Member

Salahuddin Kazi, MBBS, graduated from Dow Medical College in Karachi Pakistan in 1987. After completing a transitional internship at Civil Hospital Karachi, he completed internal medicine residency training at the University of Texas Health Science Center at Houston. He went on to serve as chief resident and stayed at the same situation to complete a fellowship of rheumatology. In 1995 he moved to UT Southwestern and initially served as a physician at the Dallas VA Medical Center. There he was appointed the Chief of the Section of Rheumatology and Assistant Chief of Medical Service. From 2007 - 2010 Dr. Kazi joined Texas health Resources as the Chief of Rheumatology but returned to the Dallas VA Medical Center in 2010 as the Chief Health Informatics Officer. In 2012, Dr. Kazi was appointed as the Program Director of the Internal Medicine residency training program at UT Southwestern, a position he currently holds. He also serves as the Vice Chair of Education for the Department of Internal Medicine. Dr. Kazi has served as the past chair of the Registries and Health Information Technology committee of the American College of Rheumatology helping launch and grow the Rheumatology Informatics System for Effectiveness (RISE), a nationwide registry of rheumatic diseases. Dr. Kazi also serves on the American Board of Internal Medicine Rheumatology Subspecialty Board. Dr. Kazi is engaged in curricular design including high value care, quality of care, and in health equity initiatives in the residency training program.

David Larson

Member

David B. Larson, MD, MBA, is Professor of Radiology (Pediatric Radiology) and Executive Vice Chair in the Department of Radiology at Stanford University. He also serves as the Associate Chief Quality Officer for Improvement for Stanford Health Care, overseeing improvement training programs at SHC. Dr. Larson is a national thought leader in radiology quality improvement and patient safety, and a regular speaker regarding topics ranging from pediatric CT radiation dose optimization to radiology peer learning. He is the founder of Stanford's Realizing Improvement through Team Empowerment (RITE) program and co-founder of the Clinical Effectiveness Leadership Training (CELT) program, continuing to serve as co-executive director of both programs. He also founded and leads the Stanford Medicine Improvement Capability Development Program (ICDP) and the Advanced Course in Improvement Science (ACIS).

Dr. Larson is the founder and program chair for the annual Radiology Improvement Summit held annually at Stanford, which began in 2015. He currently serves on the Board of Trustees of the American Board of Radiology, overseeing quality and safety, and on the Board of Chancellors for the American College of Radiology as the chair of the ACR's Commission on Quality and Safety. He also founded and leads the ACR Learning Network, which was launched in 2021.

Dr. Larson graduated with his BS in mechanical engineering from Brigham Young University and his MD and MBA from Yale. He completed his internship in pediatrics, residency in diagnostic radiology, and fellowship in pediatric radiology at the University of Colorado in Denver.

Pari Pandharipande

Member

Pari Pandharipande, MD, is Professor and Chair of Radiology at The Ohio State University. She is a practicing abdominal radiologist. She also oversees an outcomes research program centered in cancer modeling, risk analysis, and cost-effectiveness analysis, which broadly seeks to quantify the benefits, risks, and costs of diagnostic and therapeutic interventions for reducing the burden of cancer. She is the Principal Investigator of two R01 research awards R01CA237133 (PI), R01CA266402 (PI of MPI award), serves as a board member of the Radiological Society of North America, and as an Advisory Board member of the Harvey L. Neiman Health Policy Institute of the American College of Radiology. She is a standing member of the NIH ODHS Study Section, serves on multiple journal editorial boards, and has closely mentored 20+ individuals in radiology and health outcomes research. She obtained her undergraduate degree (BA) from Cornell University (1994), and her MD from Weill Cornell University Medical College (1998). She completed her Radiology Residency at NYU (2004), and fellowship in Abdominal Imaging and Cancer Outcomes Research at Massachusetts General Hospital (2006). During fellowship, she also completed an MPH degree at the Harvard T. H. Chan School of Public Health (2005). Her career goal is to ensure that every patient's encounter with imaging adds value to their care.