NATIONAL SYMPOSIUM

SPEAKER AND PANELIST PROFILES

Partha Bhattacharyya, PhD
Dr. Partha Bhattacharyya serves as the Chief Data Officer at the National Institute on Aging (NIA), where he spearheads the Office of Data Resource and Analytics within the Division of Behavioral and Social Research. In this current role, he coordinates and implements research infrastructure and data initiatives, both within the division and across NIA. He manages NIA's AD/ADRD Health Care Systems Collaboratory, Artificial Intelligence and Technology Collaboratories for Aging Research, and behavioral economics interventions and pragmatic trials portfolio, and is responsible for the development of NIA's AD/ADRD Real-World Data Platform.

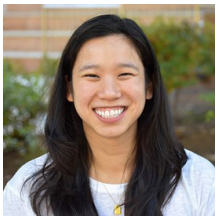
Tracy Chadwell, JD
Tracy Chadwell is the founder of 1843 Capital, an early-stage venture capital firm that focuses on AgeTech—technology companies supporting aging and longevity. Through their work, 1843 Capital aims to change the way people view and experience aging.

Tracy was named to the inaugural Forbes "50 over 50" list in 2021 and one of Entrepreneur Magazine's inaugural "100 Powerful Women." She is a leader in the venture capital industry and a sought-after speaker, including giving testimony before a US Senate Committee. She has also been a speaker for the Nantucket Project, MIT, and TEDx NYIT. She currently serves on the Board of Recuro Health and is a Board Observer to Corsha. Her nonprofit work includes the AARP Age Collective and serving as a Board Member of Early Stage Montana.

Rama Chellappa, PhD
Dr. Chellappa, a Bloomberg Distinguished Professor in Electrical and Computer Engineering and Biomedical Engineering at Johns Hopkins University and Chief Scientist at the Johns Hopkins Institute for Assured Autonomy, is a pioneer in the area of artificial intelligence.

Dr. Chellappa's research has shaped the field of facial recognition technology, including the development of detailed face models based on shape, appearance, texture, and bone and muscle structure. He also is known as an expert in machine learning, a branch of artificial intelligence that instructs computer systems to perform tasks based on patterns and inferences. Chellappa has worked on gait analysis, which can apply to an enormous range of uses—everything from diagnosing Parkinson's disease to human identification at a distance.

Dr. Chellappa serves as Co-Principal Investigator for JH AITC.



Irene Chen, PhD
Dr. Chen is an incoming Assistant Professor at the University of California San Francisco and UC Berkeley Joint Program in Computational Precision Health.

Dr. Chen studies machine learning for equitable healthcare. Her research focuses on two main areas: developing machine learning methods for equitable clinical care and auditing and addressing algorithmic bias. She has received the honors of Rising Star in AI from Harvard University and Rising Star in Machine Learning from the University of Maryland. Her work has been published in both machine learning conferences and medical journals and has been covered by media outlets including MIT Tech Review, NPR/WGBH, and Stat News.

Christina DeMur, MS
Christina is a Director of Technology Development at Johns Hopkins Technology Ventures (JHTV). Her role at JHTV involves scouting high value–high impact technologies and helping accelerate them to commercialization.

Christina is a global healthcare technology executive with a background that integrates clinical experience, product development, and healthcare delivery. She joined Johns Hopkins University coming from GE Healthcare where she led a small business unit focused on cardiovascular IT. Over the course of her career she has developed and deployed multiple medical devices and healthcare IT solutions.

George Demiris, PhD
Dr. Demiris is the Penn Integrates Knowledge Mary Alice Bennett University Professor at the University of Pennsylvania, with joint faculty appointments in Penn Nursing's Department of Biobehavioral Health Sciences and the Perelman School of Medicine's Department of Biostatistics, Epidemiology, and Informatics.

Dr. Demiris's research focuses on the use of information technology to support older adults and their family caregivers and explore innovative solutions to promote independent aging and patient and family engagement. He is a co-founder of the Hospice Caregiver Research Network, an initiative led by researchers from various academic disciplines committed to designing and testing interventions to support family caregivers of patients at the end of life. Another area of his research includes the use of behavioral sensing, smart home, and Internet of Things technologies to promote independence for community-dwelling older adults and their families. He leads the Penn Collaboratory for Community Co-Creation (Penn4C).

Dr. Demiris serves as Co-Principal Investigator for PennAITech.

Deepak Ganesan, PhD
Dr. Ganesan is a Professor and Donna M. and Robert J. Manning Faculty Fellow in the Department of Computer Science at the University of Massachusetts Amherst. He directs the Center for Personal Health Monitoring at UMass Amherst, a center developed to accelerate the development and commercialization of low-cost, multi-function, wearable, wireless sensor systems for personalized health care and biometric monitoring.

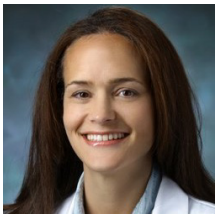
Dr. Ganesan's research focuses on novel platforms and algorithms for mobile and wearable health sensing, learning and inference on multi-modal sensor data, and micro-powered sensors. One of his current projects is on computational textiles, which seeks to imperceptibly modify everyday loose-fitting sleepwear with gel electrodes, fine-grained pressure sensing, and triboelectric sensing capability to monitor cardi-respiratory rhythm, eye movements, brain signals, and physical function.

Dr. Ganesan serves as Co-Principal Investigator for MassAITC.

Jeremy Greene, MD, PhD
Dr. Greene is the William H. Welch Professor of Medicine and the History of Medicine and Director of the Johns Hopkins University Department of the History of Medicine and the Center for Medical Humanities and Social Medicine.

Dr. Greene serves as Core Faculty in the Johns Hopkins Drug Access and Affordability Initiative, Associate Faculty at the Berman Institute of Bioethics, and holds joint appointments in the Department of History of Science and Technology and the Department of Anthropology at the Krieger School of Arts and Sciences. His research explores the ways in which medical technologies come to influence our understandings of what it means to be sick or healthy; normal or abnormal.

In addition to his appointment at the Institute for the History of Medicine, he practices internal medicine at the East Baltimore Medical Center, a community health center affiliated with Johns Hopkins.



Nadia Hansel, MD, MPH
Dr. Hansel is a pulmonary and critical care medicine physician. She currently serves as the Interim Director of the Johns Hopkins University Department of Medicine, where she is also a Professor of Medicine and Interim Physician-in-Chief at Johns Hopkins Hospital.

Dr. Hansel's research focuses on understanding the determinants of health outcomes in obstructive airway diseases, including COPD. She formerly served as Director of the Bridging Research, Lung Health & Environment (BREATHE) Center, and her work has been instrumental in showing that substantially lower pollutant concentrations found in homes not using biomass in developed countries are still an important contributor to respiratory symptoms in patients with chronic lung disease, such as COPD. Her work focuses on identifying subgroups with increased susceptibility to pollution exposure as well as understanding clinical phenotypes of obstructive airway diseases.

Richard J. Hodes, MD
Dr. Hodes is the Director of the National Institute on Aging, a part of the National Institutes of Health. Dr. Hodes, a leading researcher in the field of immunology, was named to head NIA in 1993.

Dr. Hodes also directs the federal effort to find effective ways to treat or prevent Alzheimer's disease, as NIA is the lead NIH institute for this mission. Cutting-edge research conducted and supported by NIA, often in collaboration across NIH institutes and centers, has helped to revolutionize the way we think about Alzheimer's disease and related dementias. Studies in genetics, basic mechanisms, imaging, and biomarkers have spurred the development of potential therapies aimed at a variety of targets and the testing of interventions at the earliest signs of disease.

He is a Diplomate of the American Board of Internal Medicine, a member of the Dana Alliance for Brain Initiatives, a Fellow of the American Association for the Advancement of Science, and a member of the National Academy of Medicine at the National Academies of Sciences, Engineering and Medicine.

Jason Karlawish, MD
Dr. Karlawish is a Professor of Medicine at the University of Pennsylvania Perelman School of Medicine, physician, and writer. He cares for patients at the Penn Memory Center, which he co-directs, and studies and writes about issues at the intersections of bioethics, aging, and the neurosciences.

Dr. Karlawish has investigated the development of Alzheimer's disease treatments and diagnostics, biomarker-based concepts of disease, informed consent, quality of life, research and treatment decision making, and voting by people with cognitive impairment and residents of long-term care facilities. In a widely read essay in the Journal of the American Medical Association, he introduced the concept of "desktop medicine," a theory of medicine that recognizes how risk and its numerical representations are transforming medicine, medical care, and health. He is the author of *The Problem of Alzheimer's: How Science, Culture, and Politics Turned a Rare Disease into a Crisis and What We Can Do About It*.

Dr. Karlawish serves as Co-Principal Investigator for PennAITech.

Emily Largent, JD, PhD, RN
Dr. Largent is the Emanuel and Robert Hart Assistant Professor of Medical Ethics and Health Policy at the University of Pennsylvania Perelman School of Medicine. She holds a secondary appointment at Penn Law.

Dr. Largent's work explores ethical and regulatory aspects of human subjects research as well the social, legal, and ethical considerations that arise when research findings are translated into care. She has a particular focus on neurodegenerative diseases, including Alzheimer's disease. Her work is supported by grant awards from the National Institute on Aging. Dr. Largent is a member of the Greenwall Faculty Scholars Program Class of 2023 and the 2023 recipient of the Baruch A. Brody Award & Lecture in Bioethics.

Dr. Largent serves as the Ethics and Policy Core Lead for PennAITech.

Rose Maria Li, PhD, MBA
Dr. Li has more than 30 years of experience in science management and research administration. She is the President and CEO of Rose Li & Associates, which provides scientific communications, research and analysis, and multimedia and event services to a range of research-focused organizations. She is also serving her second term as the governor-appointed Chair of the Maryland State Commission on Aging.

Prior to founding Rose Li and Associates, Dr. Li served the National Institutes of Health (NIH) in various leadership roles, including as Senior Policy Advisor to the NIH Office of Extramural Research, Special Assistant for Policy Development with the NIH Office of Communication and Public Liaison, Chief of the Population and Social Processes Branch within the National Institute on Aging (NIA) Division of Behavioral and Social Research, and Health Scientist Administrator with the Eunice Kennedy Shriver National Institute of Child Health and Human Development.

Dr. Li serves as Principal Investigator of the a2 Collective Coordinating Center in support of the NIA Artificial Intelligence and Technology Collaboratories for Aging Research program.

Sarah Lenz Lock, JD
Sarah Lenz Lock is Senior Vice President for Policy and Brain Health in AARP's Policy, Research and International Affairs, where she helps position AARP as a thought leader addressing the major issues facing older Americans. She leads AARP's policy initiatives on brain health and care for people living with dementia.

She is the Executive Director of the Global Council on Brain Health, an independent collaborative of experts created to provide trusted information on how adults can maintain and improve brain health as they age. She serves on the Leadership Committee of the Healthy Brain Initiative and is a member of the American Society on Aging, the National Academy of Social Insurance, and the Gerontological Society of America. She serves on the Dementia Friendly America National Council and is a Health and Aging Policy Fellow Program National Advisory Board Member. Sarah has served on the Steering Committee for the National Research Summit on Care, Services, and Supports for Persons with Dementia and Their Caregivers, on the Department of Health and Human Services Administration for Community Living Aging and Cognitive Health Technical Expert Advisory Board, and as a Commissioner for the American Bar Association's Commission on Law and Aging.

Debra Mathews, MA, PhD
Dr. Mathews is the Assistant Director for Science Programs for the Johns Hopkins Berman Institute of Bioethics and an Associate Professor in the Department of Genetic Medicine at the Johns Hopkins University School of Medicine. She is also the Ethics and Governance Lead for the Johns Hopkins Institute for Assured Autonomy.

Dr. Mathews's academic work focuses on ethics and policy issues raised by emerging technologies, with particular focus on genetics, stem cell science, neuroscience, synthetic biology, and artificial intelligence. In addition to her academic work, Dr. Mathews has spent time at the Genetics and Public Policy Center, the U.S. Department of Health and Human Services, the Presidential Commission for the Study of Bioethical Issues, and the National Academy of Medicine working in various capacities on science policy.

Supriya Munshaw, PhD
Dr. Munshaw is a Senior Lecturer in the Practice Track at Johns Hopkins University, as well as a Partner at TCP Venture Capital. Her primary interest lies in the commercialization of early-stage technologies, especially in the life science and medical device industries.

Dr. Munshaw teaches a two-part healthcare entrepreneurship course to full-time MBA students and the course Pharmaceutical Strategy to healthcare management and part-time MBA students. She also serves as the Academic Program Director of the Flexible MBA program at the Carey Business School. She was one of the founders and organizers of the Johns Hopkins Bootcamp for Biomedical Entrepreneurs and is now actively teaching Technology Entrepreneurship courses through the Executive Education Program. She also serves as the Associate Director for the National Institute on Drug Abuse-sponsored Innovations for Substance Use Disorders (I4SUD) program. Outside of the Carey Business School, she is involved in the entrepreneurial ecosystem in Baltimore by investing in and advising local tech, Biotech, and MedTech startups. Additionally, she has served as adjunct faculty for the National Science Foundation Innovation Corps (I-Corps) program and on several NIH Small Business Innovation Research grant review panels.

Elizabeth Mynatt, PhD
Dr. Mynatt is the Dean of Khoury College of Computer Sciences at Northeastern University. She joined Northeastern University in January 2022 after a 23-year career at Georgia Institute of Technology (Georgia Tech), where she most recently served as Regents' and Distinguished Professor in the College of Computing and Executive Director of the Institute of People and Technology.

Dr. Mynatt is an expert in the areas of ubiquitous computing and assistive technologies. Her research contributes to ongoing advances in personal health informatics, computer-supported collaborative work, and human-centered computing. Dr. Mynatt is an Association for Computing Machinery Fellow and member of the ACM Special Interest Group on Computer-Human Interaction (SIGCHI) Academy.

She serves as member of the National Academies Computer Science and Telecommunications Board (CSTB) and the National Science Foundation Directorate for Computer, Information Science & Engineering Advisory Committee.

Phillip Phan, PhD
Dr. Phan joined the Johns Hopkins University Carey Business School in 2008 and is the Alonzo and Virginia Decker Professor with joint appointment as Professor in the Department of Medicine.

Dr. Phan's academic and professional work focuses on innovations in patient safety and quality with a focus on transitions of care. He has published more than 200 peer-reviewed research papers and is author/editor of 13 scholarly books. He is Deputy Editor of the *International Journal for Quality in Health Care*, Academic Editor of *Medicine*®, and Associate Editor of the *Journal of Technology Transfer*. He reviews for the National Academies of Sciences, Engineering and Medicine, National Institutes of Health, and the National Science Foundation.

Dr. Phan serves as the Networking and Mentoring Core Director for JH AITC.

Carmel Roques, MA
Carmel Roques is the Maryland Secretary of Aging. Appointed by Governor Wes Moore in January 2023, Secretary Roques previously served as a member of the Maryland Commission of Aging (2014-2022) and the Maryland Medicaid Advisory Committee (2015-2021). She is passionate about creating age-friendly communities, transforming health care delivery, and leveraging housing as a health intervention. Secretary Roques spent a decade as President and CEO of Keswick Multi-Care, a not-for-profit organization that provides rehabilitation, long-term care, and services to help older adults age in place. While leading Keswick, she was recognized as one of Maryland's Top 100 Women (2016), Maryland's Top CEO (2016), recipient of an Influential Marylanders Award (2018), and Most Admired CEO (2019).