National Artificial Intelligence Institute

VA U.S. Department of Veterans Affairs

INTERNATIONAL SUMMIT FOR AI IN HEALTH CARE

TRACK SPEAKERS

Track Provided By:

DATA X

SPEAKER AGENDA

September 6, 2023

PANEL 1:30-3:00p.m. — **AI for Operational Efficiency**
Scott Pawlikowski – Ambient Dictation
Paul Shute – Claims Processing Automation
David Omura – Medical Billing and Scheduling
Priya Joshi: Moderator

NETWORKING BREAK 3:00-3:20P.M.

PANEL 3:20-4:50p.m. — **AI for Surveillance and Care Pathway Optimization**
Evan Albert – VEO work with VSignals
Bhavika Kaul – AI for Early Detection of Idiopathic Pulmonary Fibrosis
Evan Carey – Optimizing VA specialty care; AI to identify invisible Vets
David Au: Moderator

September 7, 2023

PANEL 1:30-3:00p.m. — **Technical Architectures & Infrastructures to Enable AI**
John Scott – Health Data Analytics Platform
Kimberly McManus – NLP for Mental Health
Akshar Abbott – Eye Image Repo/Moderator

NETWORKING BREAK 3:00-3:20P.M.

PANEL 3:20-4:50p.m. — **AI in Mental Health Innovations**
Kimberly McManus – NLP for Mental Health / Moderator
Ioana Danciu – VA-DoE BRAVE project
Duncan McElfresh – MH Applications
Logan Grosenick – AI Enabled Prediction of MH Tx outcomes
Liam Mina – AI Enabled Clinical Decision Suport

September 8, 2023

PANEL 1:30-3:00p.m. — **Open Innovation for Evauation of AI Solutions**
Kacie Kelly – Public-Private Partnerships in Driving Innovation in Mental Health
Amanda Lienau – Mission Daybreak
Anindita Saha – VA/FDA V-CHAMPS Challenge
Rebecca Resnik – Computational Approaches to Improving Mental Health Care: Current Obstacles and Future Possibilities
April Foreman: Moderator

NETWORKING BREAK 3:00-3:20P.M.

PANEL 3:20-4:50p.m. — **Processes and Resources to Support AI Testing and Validation**
Stacey Lewis – VA Pathfinder
Dave Oslin – Research/Field Implementation Evaluation
Blake Henderson – E3 Alliance
Amanda Lienau – Moderator

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Evan Albert
David Au
Evan Carey
Ioana Danciu
April Foreman
Logan Grosenick
Blake Henderson
Priya Joshi
Bhavika Kaul
Kacie Kelly
Stacey Lewis
Amanda Lienau
Duncan McElfresh
Kimberly McManus
Liam Mina
David Omura
David Oslin
Scott Pawlikowski
Rebecca Resnik
Anindita Saha
John Scott
Paul Shute

For more information on the International Summit for AI in Health Care, click here.

To find out more about the National Artificial Intelligence Institute (NAII), click here or visit research.va.gov/naii/

TRACK SPEAKERS

Akshar Abbott

Dr. Akshar Abbott, M.D. is a physician-innovator who works with the Technology-based Eye Care Service to bring critical retina subspecialty services to Veterans across the rural Midwest. He works across the disciplines of telehealth, digital health innovation, and rural health to design and deploy high-quality ophthalmic subspecialty care programs in areas of critical need.

He is also particularly interested in the potential for large, high-quality datasets in ophthalmic imaging to drive innovation in artificial intelligence that improves Veteran eye care.

In addition to his primary clinical role, he is an MIT Catalyst Fellow focused on digital health, a National Academy of Medicine Scholar in Diagnostic Excellence, and a graduate student in Epidemiology at the Harvard TH Chan School of Public Health.

Evan Albert

25 years of experience in Program and Project Management in Federal Government, State Government, and Foundation/Nonprofit (served as V.P. for Programs at a Community Foundation). Certified in Program and Project Management (FAC-P/PM), COR-2, and Lean Six Sigma Green Belt. Completed Dept. of Veterans Affairs competitive "Leadership VA" program for senior management executive training and coaching.

TRACK SPEAKERS

David Au

Dr. Au is a Professor of Medicine in the Division of Pulmonary and Critical Care Medicine at the University of Washington and Director of the Center of Innovation for Veteran-Centered and Value-Driven Care. Dr. Au's responsibilities include overseeing the Seattle Division of the Center of Innovation that includes approximately 30 investigators and 140 total staff. In combination with the Denver Division, the 2015 operating revenue of the Center was approximately 16 million that were largely generated from VA research and medical dollars as well as funding from other federal funds including NIH, AHRQ and CDC.

Dr. Au's research clinical and research interest focus on improving delivery of care among patients with complex chronic pulmonary conditions, often related to tobacco exposure. He has expertise in bio-behavioral interventions, pharmaco-epidemiology, comparative effectiveness, program evaluation, health systems and provider level interventions. He has expertise in improving population health and health care quality and delivery at the interface between primary and specialty care medicine and improving value of care through de-implementing practices that may lead to harm without the opportunity to improve health. He leads a research program that is funded in part by the Department of Veterans Affairs and NIH/NHLBI. Dr. Au also leads the VISN20 pulmonary medicine, Specialty Care Access Network-Extension of Community Health Outcomes that seeks to improve patient and primary care access to pulmonary specialists across Washington, Idaho, Oregon and Alaska.

Dr. Au has served leadership roles within professional organizations such as the American Thoracic Society. He currently chairs the respiratory measurement advisory panel for NCQA, has chaired panel reviews for PCORI, the American Lung Association. He has served on the FDA Pulmonary-Allergy Drug Advisory Committee and on technical advisory panels sponsored by the RWJF, AHRQ and CMS.

Evan Carey

Evan Carey, PhD, is the Deputy Director, AI Networks, for the VA National Artificial Intelligence Institute (NAII) and a clinical assistant professor in the department of Biostatistics and Informatics at the Colorado School of Public Health (CSPH). Dr. Carey is an experienced quantitative scientist and evaluator who has authored 27 peer reviewed publications and successfully competed for funding as a PI and Co-I for VA and NIH awards. Dr. Carey is a passionate mentor and educator, regularly delivering workshops at national scientific meetings, mentoring junior clinical investigators on VA and NIH awards, and teaching graduate students at CSPH. Dr. Carey is a proud husband, father of two amazing daughters and a citizen of the Muscogee nation. He can often be found in the backcountry of Colorado on skis or a mountain bike.

TRACK SPEAKERS

Ioana Danciu

Ioana is a biomedical research scientist at the Oak Ridge National Laboratory, where she leads several initiatives in partnership with the VA. Her research focuses on adapting scalable computational methods using multimodal data for biomedical studies. Her interest areas cover adjusting machine learning methods to account for time to event with censoring, explainable AI approaches and learning with less labeled data.

April Foreman

April C. Foreman, Ph.D., is a Licensed Psychologist serving Veterans as Deputy Director of Technology and Innovations for the Veterans Crisis Line. She is a member of the team that launched OurDataHelps.org, a recognized innovation in data donation for ground-breaking suicide research. She is passionate about helping people with severe (sometimes lethal) emotional pain, and in particular advocates for people with Borderline Personality Disorder, which has one of the highest mortality rates of all mental illnesses. She is known for her work at the intersection of technology, social media, and mental health, with nationally recognized implementations of innovations in the use of technology and mood tracking. She is the 2015 recipient of the Roger J. Tierney Award for her work as a founder and moderator of the first sponsored regular mental health chat on Twitter, the weekly Suicide Prevention Social Media chat (#SPSM, sponsored by the American Association of Suicidology, AAS). Her dream is to use her unique skills and vision to build a mental health system effectively and elegantly designed to serve the people who need it.

Logan Grosenick

Logan Grosenick, Ph.D. is an Assistant Professor of Neuroscience in the Department of Psychiatry and the Feil Family Brain and Mind Research Institute at Weill Cornell Medicine, Cornell University. He has masters in Statistics and a PhD in Neurosciences from Stanford University and completed a postdoc in Statistics at Columbia University before joining the faculty at Cornell. He is a a neuroscientist and statistician with extensive experience developing new methods at the interface of circuit neuroscience, multi-omics, machine learning, and neurostimulation.

TRACK SPEAKERS

Blake Henderson

Blake is an entrepreneur at heart guiding the testing, replication, and scaling of emerging health care promising practices and innovations across our nation's largest integrated health care system. As Director of Diffusion of Excellence, he developed VHA's first national diffusion framework and has overseen numerous national diffusion initiatives to implement select frontline-developed innovations across the VHA system. He serves as the product visionary and owner for VHA's Diffusion Marketplace, a public-access digital platform to enable the discovery of innovation at VA. Blake was recognized by Modern Healthcare as a 2022 Top Emerging leader in U.S. health care for his work helping VHA change agents, and their innovations, reach their full potential.

Priya Joshi

Priya Joshi is an internist and the Chief Health Informatics Officer of the San Francisco VA Medical Center. Their division focuses on accountably remediating inequities in care through technological innovations that provide direct to Veteran services.

Bhavika Kaul, M.D., M.A.S.

Dr. Kaul is an investigator at the Veterans Affairs Center for Innovation in Quality, Effectiveness and Safety and Assistant Professor of Pulmonary/Critical Care Medicine at Baylor College of Medicine. Her scholarship focuses on improving timely access to high quality subspecialty care for Veterans with pulmonary fibrosis. She has conducted research leveraging "big data" generated from clinical encounters to identify missed opportunities for diagnosis, characterized barriers and facilitators to care optimization, and leveraged novel informatics approaches to improve timely access. Her work is funded by the NHLBI, Pulmonary Fibrosis Foundation, Department of Defense, and the National Academy of Medicine.

Dr. Kaul earned her B.S. from Rice University and her M.D. from Baylor College of Medicine. She completed internal medicine residency at Baylor College of Medicine, where she served as chief resident, and fellowship in pulmonary and critical care medicine at the University of California San Francisco, where she served as chief fellow. She is board certified in internal medicine, pulmonary, and critical care medicine.

TRACK SPEAKERS

Kacie Kelly

Kacie Kelly has 22 years of experience with leading innovation in mental health care and translating it into policy and practice. In her role as Chief Innovation Officer at the Meadows Mental Health Policy Institute, she focuses on opportunities to integrate scalable, data driven innovations into healthcare, school, justice, and community systems to detect mental health risk earlier and increase access to quality care for more youth and adults. Additionally, she works to harness the power of public and private partnerships to advance improved funding models that incentivize best practices in mental health care delivery. She seeks opportunities to integrate technology into existing systems to accelerate adoption of high quality solutions and optimize workforce demands. Prior to joining the Institute, Kacie served as the Director for Health & Wellbeing at the George W. Bush Institute's Military Service Initiative where she advanced cutting-edge, outcome-based solutions for mental and brain health challenges for veteran families through partnerships, collaboration, and alignment among national and international stakeholders including the Bush Institute's Veteran Wellness Alliance and the Stand To Health & Wellbeing Task Force. Kacie spent 15 years leading ground-breaking mental health and suicide prevention initiatives at the Department of Veterans Affairs. During that time, she established public-private partnership programs, led national systems transformation initiatives on innovative care models and directed outreach efforts to reduce stigma associated with mental health. Kacie earned her bachelor's degree and her master's of Health Sciences from Louisiana State University and has a Graduate Certificate in Women in Public Policy and Politics from the University of Massachusetts.

Stacey Lewis

Stacey Lewis has served the VHA for over a decade in both clinical and administrative roles. She started her career as a Radiologic Technologist at the VA Maine HCS before moving under Quality Management, where she now leads strategic operations as a Data Scientist and Lean Six Sigma Master Black Belt candidate at the New England Center for Innovation Excellence (NECIE). Stacey is also currently serving as a VHA Entrepreneur in Residence Fellow where she leads the national design and implementation of the VA Pathfinder program. VA Pathfinder operates as the digital front door to collaborate and sell to VA, with a back-end data solution that democratizes access for innovators and vendors, across all sectors, wanting to work with VA. Under her leadership and expertise, VA Pathfinder is poised to transform the way businesses innovate and sell within and across the VA healthcare system.

TRACK SPEAKERS

Amanda Lienau

Amanda Lienau is the Director of Data and Analytics Innovation with the Office of Healthcare Innovation and Learning (OHIL). She has a primary focus of increasing meaningful use of information to increase access to care, improve equitable outcomes, and improve quality of life.

She has a passion for empowerment, equity, and engagement. She has training and experience in individual and systems change, prevention and holistic care, and health communication. Dr. Lienau has a PhD in Counseling Psychology from The Ohio State University.

Duncan McElfresh

Duncan is a Postdoctoral Fellow in Health Services Research and Development, with the VA Center for Innovation to Implementation (Ci2i) and the Stanford Department of Health Policy. Duncan uses methods from computer science and operations research for resource allocation and decision making in applied settings. To ensure that these systems meet appropriate standards of quality and safety, he is also developing processes for governing and monitoring deployed algorithms in healthcare settings. Duncan's past projects have focused on blood donor recruitment (with Facebook), kidney exchange (with UNOS), and financial services (with FinRegLab). He holds a PhD in Applied Mathematics (AMSC) from the University of Maryland, College Park.

Kimberly McManus

Kimberly's expertise is at the nexus of machine learning, software engineering, and digital health. She currently leads the data team in the Office of the CTO at the Department of Veterans Affairs where we work to improve data capabilities across the agency. She started her career in government as a White House Presidential Innovation Fellow in the same office. Previous to the fellowship, she worked in industry building machine learning-based products. As an R&D scientist at 23andMe, she developed and deployed algorithms that predict ancestry from genetic and phenotypic data, and as a software engineer at LinkedIn, she developed recommendation systems. She has a Bachelor's degree from MIT, and a PhD in Population Genetics and Master's degree in Biomedical Informatics from Stanford University where she studied demography and the genetics of malaria resistance in diverse populations.

TRACK SPEAKERS

Liam Mina

Liam Mina, MSW is a Health Science Specialist with the VHA Office of Mental Health and Suicide Prevention (OMHSP). Liam holds a master's degree in Social Welfare from UCLA, and has a background in suicide crisis line management and community-based suicide prevention training. At the OMHSP Program Evaluation and Resource Center (PERC), Liam coordinates the implementation and evaluation of multiple national initiatives within VHA in support of suicide prevention. They are a lead developer and project manager for PERC's Clinical Decision Support team, which builds and manages an array of data tools and predictive models for VA providers working in mental health, suicide prevention, and substance use disorder treatment.

David Omura

Dr. Omura provides oversight and leadership of a health care system that includes a medical center that is located in Columbia, SC; and seven Community-Based Outpatient Clinics that cover 2/3rd the state of South Carolina. This health care system serves more than 83,000 Veterans, is staffed by more than 2,450 employees, and has an operating budget of $493M.

Prior to Dr. Omura's appointment to this role, he served as the Associate Director/COO, since September 2012. In this role, he was held operational oversight over fiscal, human resources, engineering, safety, privacy, logistics, and the business office. Preceding his roles in executive leadership, Dr. Omura served in clinical and administrative roles both at the North Florida/South Georgia Veterans Health System and the University of Florida Health System.

Dr. Omura is a New York native, earning his Master of Science degree in Physical Therapy from Boston University, his Master in Health Care Administration from the University of Florida, and his Doctorate in Physical Therapy from Mass General Hospital Institute of Health Professions. He is a member of the American College of Healthcare Executives and the Federal Asian Pacific American Council. Dr. Omura is a graduate of the VHA Health Care Leadership Development Program and the Federal Executive Institute. He serves as an Adjunct Faculty at the University of South Carolina, and is actively engaged in community partnerships.

TRACK SPEAKERS

David Oslin

Dr. David Oslin is a Professor of Psychiatry and Vice Chair for Veterans Health at the Cpl Michael J Crescenz (Philadelphia) Veterans Affairs Medical Center and the Perelman School of Medicine at the University of Pennsylvania. Dr. Oslin is the Director of the VISN 4 Mental Illness, Research, Education, and Clinical Center (MIRECC), Director of the Crescenz NODES program, and the Chief of Behavioral Health at the Philadelphia VAMC. The MIRECC supports research on implementing precision mental health care and facilitates a number of research projects for post-doctoral fellows and faculty.

Dr. Oslin's research portfolio includes studies aimed to improve access to behavioral health care, implementing measurement based mental health care, and the study of pharmacogenetics of addiction and depression treatment. Dr. Oslin is the author of over 300 research publications and 30 chapters, books, or editorials.

Scott Pawlikowski

Dr. Pawlikowski currently serves as the Director of Improvement & Innovation for the VHA Office of Primary Care (11PC). Dr. Pawlikowski has over 18 years of VA experience. He has served within VA as a Primary Care Provider, Emergency Department Provider, Academic Hospitalist, and he currently continues to work as a Primary Care Provider at Edward Hines Jr, VA Hospital.

Dr. Pawlikowski has assisted National Primary Care efforts by Chairing the End User Experience SubCouncil. He has also collaborated with the PMOP Program Office and many other stakeholders in developing and launching the integrated IT solution between CPRS and the State Prescription Drug Monitoring Programs.

Dr. Pawlikowski earned his medical degree from Loyola University Medical Center/Stritch School of Medicine and completed his internship, residency, and chief residency at Loyola University Medical Center. He is an Associate Professor of Medicine at Loyola and is board certified in Internal Medicine.

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Rebecca Resnik

Dr. Rebecca Resnik is a licensed clinical psychologist who specializes in neuropsychological assessment in her group practice, Rebecca Resnik and Associates LLC. She is the President of the Maryland Psychological Association. Dr. Resnik co-founded (with Dr. Meg Mitchell and Dr. Philip Resnik) the Computational Linguistics and Clinical Psychology workshop at the North American Association for Computational Linguistics (2014 to present). She continues to serve on the organizing and program committees. Dr. Resnik is a frequent speaker on the potential of computational methods for improving clinical diagnosis and care of mental health disorders.

Anindita Saha

Anindita (Annie) Saha is an Assistant Director for the Digital Health Center of Excellence (DHCoE) at the Food and Drug Administration (FDA) Center for Devices and Radiological Health (CDRH). Ms. Saha is leading the development of partnerships, regulatory science, international collaborations, and operations for the DHCoE to empower digital health stakeholders in advancing healthcare and equity. She is working to advance the use of patient-generated health data, using digital health technologies (DHTs) in trials, and how to manage bias in DHTs and improve transparency. Additionally, Annie helped incubate and continues to support CDRH's patient science and engagement efforts to advance the science and adoption of patient input as evidence, including patient preference information (PPI), clinical outcome assessments (COAs). Previously, Annie was the Director of Partnerships to Advance Innovation and Regulatory Science (PAIRS) where she oversaw a broad program portfolio, supporting a number of strategic partnership and regulatory science programs for CDRH. This included relationships with the Medical Device Innovation Consortium and other public-private partnerships, Network of Experts, Critical Path, and technology transfer. Ms. Saha began her FDA career as a researcher in the CDRH's Office of Science and Engineering Laboratories in the Division of Imaging and Applied Mathematics in the area of imaging display technologies. Ms. Saha has a Bachelor of Science in Bioengineering and Minor in History from the University of Pittsburgh. She was a student researcher at the McGowan Institute for Regenerative Medicine working in tissue engineering and wound healing.

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John Scott

Doctor Scott is a pediatric cardiologist and clinical informatics specialist who has many years of experience in the Military and Veterans health care systems coordinating strategy for electronic health records and related health information technology.

A 30-year Army medical corps Veteran, he transitioned from military service to the Veterans Health Administration (VHA) in 2020 to work in its Office of Health Informatics. As the Acting Director of the Data Management and Analytics division, he supports the maturation of VHA data governance and helps to apply VA's data strategy to enterprise data management platforms. He also serves as the Co-Chair of the VHA Data Governance Council and is a VHA voting representative on the VA level Data Governance Council. In these roles he is part of the team working to unlock the enormous potential of big data analytics to promote health. Dr. Scott's focus in that effort is developing the data governance tools necessary to ensure that the products of advanced analytics truly benefit Veterans.

Paul Shute

Assistant Deputy Under Secretary, Office of Automated Benefits Delivery, Veterans Benefits Administration

Paul is currently the Assistant Deputy Under Secretary for the Office of Automated Benefits Delivery for the Department of Veterans Affairs. In this role, he is responsible for VBA's digital transformation strategy, including the delivery of automation capabilities to modernize the claims process, evolving the use of data to streamline operations, and expanding the adoption of digital self-service products to improve Veterans' experience.

Prior to his current assignment, Paul served as the Director of Benefits Automation for the Veterans Benefits Administration. He was responsible for the development and implementation of automation capabilities to improve customer experience and benefit delivery for Veterans. While serving in this role he led the development of Automated Decision Support (ADS) functionality that automates administrative tasks and workflows assisting claims processors in making fast, accurate, consistent, and equitable claim decisions for Veterans. He's also improved the digital experience for Veterans and Service Members through the creation of self-service claim products on VA.gov.

Paul began his career with VA in 2008 at the St. Paul Regional Office where he served as a Veterans Service Representative and Rating Veterans Service Representative. He's also a senior fellow of the Excellence in Government program with the Partnership for Public Service and was a finalist for a 2019 Samuel J. Heyman Service to America Medal in the category of management excellence.

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