

NJIT CENTER FOR TRANSLATIONAL RESEARCH WORKSHOP ON P3HI

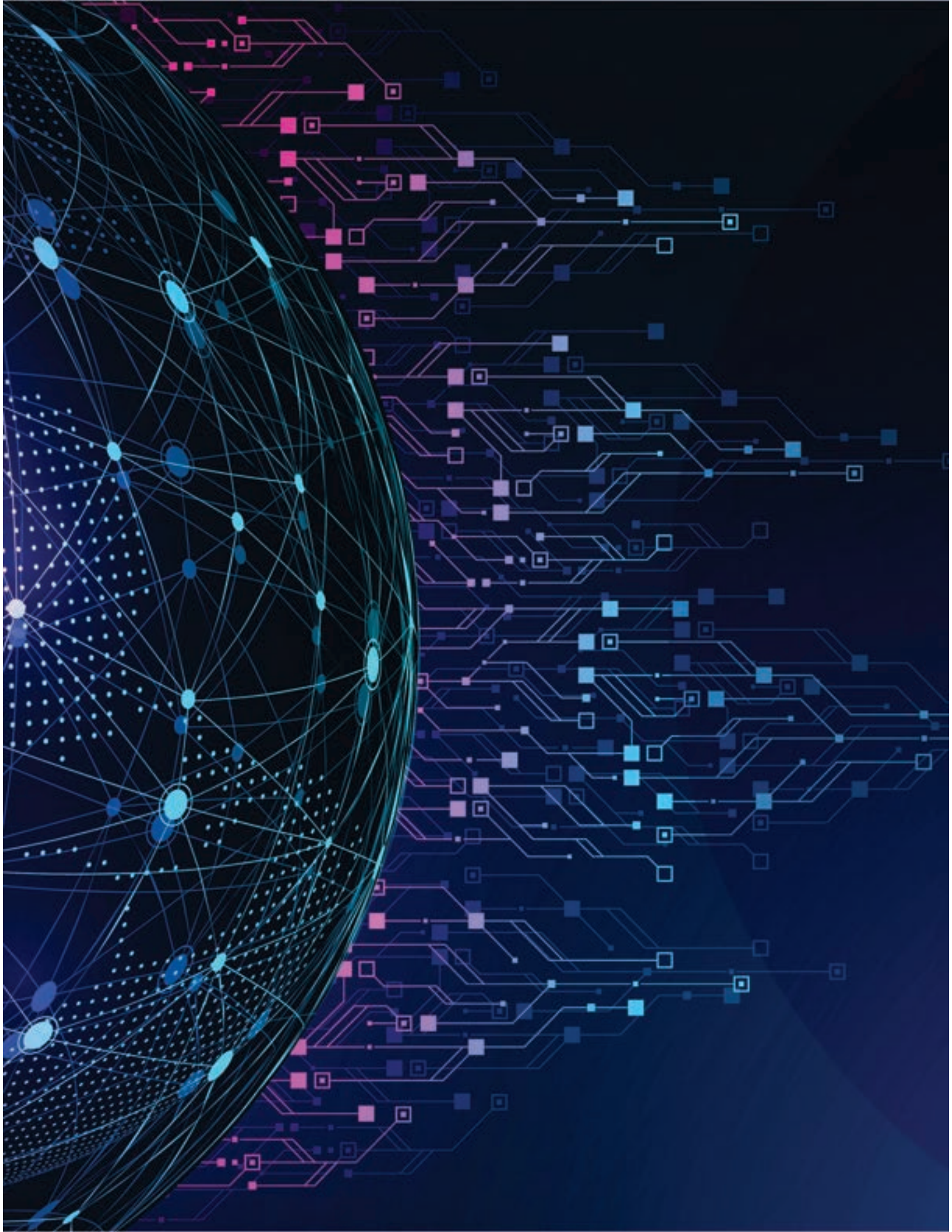
PERSONALIZED, PREDICTIVE AND PREVENTIVE HEALTHCARE
INNOVATIONS (P3HI): HEALTHTECH, DIGITAL HEALTH AND AI TRENDS



NOVEMBER 12, 2026 | ATRIUM, NJIT STUDENT CENTER

Time: 8.00 AM – 4.45 PM

Supported by the U.S. NSF Accelerating Research Translation (ART) Program





Program Agenda

Center for Translational Research (CTR) 2026 Workshop on Personalized, Predictive and Preventive Healthcare Innovations (P3HI)

HealthTech, Digital Health and AI Trends



November 12, 2026



8.00 AM – 4.45 PM



Atrium, Campus Center

Sponsored by
NSF ART (Accelerating Research Translation) Program at NJIT
National Academy of Inventors (NAI) – NJIT Chapter

Co-organizers and Co-Chairs

[Atam P. Dhawan](#), Ph.D., Chief Strategic Innovation Officer, Senior Vice Provost for Research, NJIT; Executive Director – Center for Translational Research

[Arunan Skandarajah](#), Ph.D., Founder and Principal, [Nalam Ventures](#), Former Small Business Manager and Translational R&D and Commercialization Lead, Advanced Research Projects Agency for Health (ARPA-H)

Full Announcement and Preliminary Program: Click [Here](#)

NJIT Digital Badge & (PDH) Credit

Participants who attend the CTR 2026 Personalized, Predictive and Preventive Healthcare Innovations (P3HI) Workshop will earn **6 Professional Development Hours (PDHs)** per day through the issuance of a [digital badge](#), a credential [issued by NJIT](#) via [Parchment](#) Badges.

Accessing and Using Your Badge

Once earned, your badge will be sent to the email used for registration. First-time recipients will need to create an account using that same email address. After setup, badges can be accessed through your [Parchment Backpack](#), where you can:



Access all earned badges from your [Backpack](#) at any time



[Share your badge](#) on LinkedIn and other platforms



Include it in resumes, portfolios, and applications



Showcase your skills, achievements, and professional development

Scan to Learn More About NJIT Digital Badges



<https://njit.badges.parchment.com/public/badges/dVth7bX5QNiXnXdvndBYmQ>

Each badge includes detailed metadata outlining the issuer, criteria, date earned, and associated skills.

For questions regarding NJIT digital badges, please contact: LDIHelp@njit.edu



NJIT digital badges are **verifiable, shareable credentials** that recognize learning, achievements, skills, and competencies gained through NJIT experiences. This [digital badge](#) represents a one-time achievement and confirms the 6 PDHs earned.



Happy learning and earning!

Live Zoom Meeting Streaming

Join Zoom Meeting

<https://njit-edu.zoom.us/j/93812383336?pwd=WgYV3IwzvmJcN4bHFfoe3aqeBl2OQI.1>

Meeting Chat Link

<https://njit-edu.zoom.us/launch/jc/93812383336>

Meeting ID: 938 1238 3336

Passcode: 492232

Brief Description: The [Center for Translational Research](#) is committed to promoting excellence in collaborative research, innovation partnerships, entrepreneurial pathways, education, training, and infrastructure development to translate technology into applications with a high societal and economic impact. To execute on the CTR mission to enhance the research, innovation, and technology entrepreneurship ecosystem at NJIT, we have initiated a series of workshops on pathways to translational research and innovation partnerships, with panel discussions and breakout sessions giving faculty, postdocs, and students an opportunity to interact with experts on early and advanced translational research, tech transfer, licensing, and funding strategies for entrepreneurial activities. This CTR P3HI workshop focuses on translational research and innovative technology solutions to unmet needs in personalized, predictive, and preventive healthcare, improving global point-of-care healthcare, and driving future economic growth.

Why You Should Attend: Recent technological and pharmaceutical advances in healthcare have yielded tremendous improvements in the diagnosis and treatment of deadly maladies, from cardiac and brain disorders to cancers to infectious diseases. Yet a critical problem remains: the lack of “*HealthTech*” innovations available to all people for sustainable point-of-care, personalized monitoring towards preventive, predictive, and precision healthcare, understanding the onset and progression of pathological conditions, effective treatment and therapeutic intervention, and, more importantly, changing behavior to stay healthy in the long-term. Global healthcare, particularly in under-resourced communities in both impoverished and affluent nations, suffers from limited access to the life-changing remedies many of us take for granted. These disparities are unsustainable in a functioning global society.

What we need are affordable, simpler, and more effective healthcare technologies that can be easily administered across a wide range of settings. This is not merely a research and development challenge solved by ingenious inventors, but also one of market validation and translation. These devices must win the acceptance of users, clinicians, payors and regulatory agencies.

Partnerships among academic researchers, healthcare providers, regulators, and businesspeople that enable them to pool ideas, expertise, resources, and investments will accelerate the commercialization of new personalized, preventive, and precision healthcare applications. This workshop will take a step toward defining and building the necessary partnerships with the attendees at their core.

In addition, the CTR 2026 P3HI Workshop will feature a Translational Research and Innovation Showcase with the participation of *HealthTech* researchers and technology leaders from healthcare stakeholder sectors, including academia, medical and clinical centers, industry, federal agencies, foundations, and communities. Personalized medicine is here, and interacting with these innovators will put a fine point on the challenges and opportunities.

Who Should Attend: Individuals and organizations who hope to build a sustainable and impactful NJ regional ecosystem that delivers personalized, preventive, and precision healthcare domestically and abroad. Attendees will range from faculty, research staff, undergraduate and graduate students, postdocs and external partners, including major NJ universities, industry, medical centers, business accelerators, government, to community stakeholders. All who are pursuing or are interested in translational research, innovation, and technology development that builds to clinically meaningful use of these tools are encouraged to attend.





CTR P3HI WORKSHOP

AGENDA

TIME	AGENDA
8.00 AM – 8.30 AM:	Registration and Meet & Greet Networking with Breakfast
8.30 AM – 8.45 AM:	Welcome Remarks and Program Outline <ul style="list-style-type: none"> • Atam Dhawan, Ph.D., Chief Strategic Innovation Officer, Senior Vice Provost for Research and Executive Director, Center for Translational Research • John Pelesko, Ph.D., Interim President, New Jersey Institute of Technology • Pradeep Fulay, Ph.D., Program Director, NSF – Accelerating Research Translation (ART) Program, Technology, Innovation and Partnership (TIP) Directorate (TBC)
8.45 AM – 10.00 AM:	Distinguished Keynote Session: Sustainable Global Healthcare and Technology Innovations in Personalized, Predictive and Preventive Healthcare - HealthTech, Digital Health and AI Trends <i>Session Description: In this session, leaders from federal agency - NIH, industry, healthcare and venture sectors will share their vision and perspectives in building partnerships ecosystems for personalized, predictive and preventive healthcare through HealthTech, Digital Health and AI Trends in technology translation, validation and commercialization towards improving patient-centric precision global healthcare.</i> 8.45 AM – 9.00 AM: Distinguished Keynote-1: HealthTech, Digital Health and AI Trends - NIH Perspective Tiffani Lash , Ph.D., Program Director, NIH-NIBIB Point-of-Care Research Network.

TIME	AGENDA
AM 8.45– 10.00 AM:	<p>9.00 AM – 9.15 AM: Distinguished Keynote-2: HealthTech, Digital Health and AI Trends - Industry Perspective Robert Cohen, Vice President, Innovation and Technology, Orthopedics, Stryker</p> <p>9.15 AM – 9.30 AM: Distinguished Keynote-3: HealthTech, Digital Health and AI Trends - Clinical and Healthcare Information Perspective Joel Klein, M.D., Executive Vice President / Chief Digital and Information Officer, Hackensack Meridian Health</p> <p>9.30 AM – 9.45 AM: Distinguished Keynote-4: HealthTech, Digital Health and AI Trends - Translational Ecosystem Perspective Steven Schachter, MD, Chief Academic Officer for the Consortia for Improving Medicine with Innovation & Technology (CIMIT), Professor of Neurology, Harvard Medical School, Co-PI, NIH POCTRN Coordinating Center</p> <p>9.45 AM – 10.00 AM: Q&A with Distinguished Keynote Speakers Moderator: Atam Dhawan, Ph.D., Chief Strategic Innovation Officer, NJIT</p>
10.00 AM – 10.10 AM:	Coffee Break
10.10 AM – 11.10 AM:	<p>Fireside Chat Session: Funding and Investments in Translational Research and Innovation Ecosystems <i>Session Description: In this session, leaders from Defense Health Agency, State of New Jersey Government, and Venture sectors will share their perspectives and funding opportunities to support building partnerships ecosystems in personalized, predictive and preventive healthcare for technology translation, validation and commercialization in HealthTech using Digital Health with AI tools for improving global healthcare.</i></p> <p>Barry Datlof, Chief, Business Development & Commercialization, Medical Technology Transfer, Defense Health Agency Michael Wiley, Vice President, Foundation Venture Capital Group and New Jersey Health Foundation Walida Ali, Director, Programming and Partnerships, Portal Innovations, NJ Innovation Hub – The Helix</p>

TIME	AGENDA
	<p>Moderator: Arunan Skandarajah, Ph.D., Founder and Principal, Nalam Ventures, Former Small Business Manager and Translational R&D and Commercialization Lead, Advanced Research Projects Agency for Health (ARPA-H)</p>
11.10 AM -12.10 PM:	<p>Distinguished Panel Session: Information Systems, AI and Integrated Technology Innovations in Personalized and Preventive Healthcare</p> <p><i>Session Description: In this session, clinicians and leaders from industry and academia sectors will discuss recent development in cross-disciplinary information systems and AI to support personalized, predictive and preventive healthcare applications towards improving precision global healthcare.</i></p> <p>Jennifer D'Angelo, Interim President, New Jersey Innovation Institute (NJII)</p> <p>Olga Troyanskaya, Ph.D., Professor, Lewis-Sigler Institute for Integrative Genomics and Department of Computer Science, Princeton University (Princeton Precision Health: An interdisciplinary, AI-driven approach to tackling big questions about health and disease)</p> <p>Lucia Mirabella, Ph.D., Vice President of AI Strategy and Business Development, SIEMENS HEALTHINEERS</p> <p>Nikhil Thaker, M.D., Medical Director and Chair of Radiation Oncology Deputy Editor, AI in Precision Oncology, Capital Health</p> <p>Moderator: Steven Golombek, M.D., President and Medical Doctor at Arthritis and Allergy Associates, PC</p>
12.10 PM - 12.30 PM:	<p>Distinguished Keynote-5: Advancing Personalized Healthcare by Enabling Scalable Drugs & Device Ecosystem</p> <p><i>Session Description: This keynote will focus a global industry perspective on recent advances in biopharma production and opportunities in building drugs and medtech innovation ecosystem for personalized and precision healthcare.</i></p> <p>Nandkumar Deorkar, Ph.D., Senior Vice President, Research and Development, Avantor</p> <p>Moderator: Atam Dhawan, Ph.D., Chief Strategic Innovation Officer, NJIT</p>

TIME	AGENDA
12.30 PM - 1.10 PM:	Lunch and Networking
1.10 PM - 2.10 PM:	<p>Distinguished Panel Session: Technology Translation and Partnership Ecosystems in P3HI</p> <p><i>Session Description: This session will focus on current and future trends and challenges in building innovation partnerships ecosystems to support, facilitate and accelerate multi- and inter-disciplinary translation research, application validation and technology commercialization for personalized, predictive and preventive healthcare.</i></p> <p>Reynold A. Panettieri, Jr., MD, Vice Chancellor for Translational Medicine and Science; Director, Rutgers Institute for Translational Medicine and Science; Professor of Medicine, Robert Wood Johnson Medical School, New Jersey Alliance for Clinical and Translational Science (NJ ACTS)</p> <p>Debbie Hart, President & CEO, BioNJ</p> <p>Chrissy Buteas, President & CEO, HealthCare Institute of New Jersey</p> <p>Conner Herman, Founder and CEO, Percy</p> <p>Moderator: Craig Arnold, Ph.D., Vice Dean of Innovation, Princeton University</p>
2.10 PM - 3.25 PM:	<p>Distinguished Panel Session: Academic Research and Innovation Translation</p> <p><i>Session Description: This session will focus on some of the emerging technologies under translational research in academia for clinically meaningful healthcare applications and multi-disciplinary application validation towards technology commercialization for personalized, predictive and preventive healthcare utilizing HealthTech, Digital Health and AI tools.</i></p> <p>Lin Dong, Ph.D., Assistant Professor, Mechanical and Industrial Engineering, NJIT (Cardiac Patch – Heart health monitoring)</p> <p>Elisa A. Kallioniemi, Ph.D., Assistant Professor, Biomedical Engineering, NJIT (AI-Guided Robotic System for Precision Transcranial Magnetic Stimulation)</p> <p>Li Cai, Ph.D., Professor, Biomedical Engineering, Rutgers University</p> <p>Peter Galie, Ph.D., Associate Dean for Research and Graduate Studies, Professor of Biomedical Engineering, Rowan University; Co-founder and Chief Technology Officer of Instant Bio, Inc</p> <p>Jennifer J. Kang-Mieler, Ph.D., George Meade Bond Endowed Professor, Chair of Biomedical Engineering, Director of the Semcer Center for Healthcare Innovation, Stevens Institute of Technology</p>

TIME	AGENDA
	<p><u>Moderator: Michael (Mike) Zwick</u>, Ph.D., Senior Vice President for Research and Professor, Genetics, Rutgers University</p>
3.25 PM -3.40 PM:	<p>Closing Remarks and Open Forum: Building P3HI Ecosystem in NJ</p> <p>Moderators: <u>Atam Dhawan</u> and <u>Arunan Skandarajah</u></p> <p><i>In this open-forum, current and future trends in supporting translational research, validation and technology commercialization for clinically meaningful healthcare applications addressing unmet needs and challenges in personalized, predictive and preventive healthcare will be discussed towards next steps in building resources and multi-stakeholders based disciplinary innovation partnerships ecosystems.</i></p>
3.40 PM – 4.45 PM:	<p>Translational Research and Technology Showcase in P3HI</p> <p>Moderator: <u>Shawn Chester</u>, Ph.D., Associate Vice Provost for Research Collaborations and Professor, Mechanical and Industrial Engineering, NJIT</p> <p><i>The CTR P3HI Workshop Industry-University-Clinical-Community showcase will feature e-posters and information exhibits on resources and ongoing technology developments, translation research and validation programs towards commercialization in personalized, predictive and preventive healthcare with HealthTech, Digital Health and AI.</i></p>

TABLE #	PRESENTER	TITLE	ORGANIZATION
1	Shawn Chester	Associate Vice Provost, Collaborative Research and Partnerships; Professor	NJIT / Center for Translational Research
2	Lucia Mirabella	Vice President, AI Strategy and Business Development	Siemens Healthineers
3	Lin Dong	Assistant Professor, MIE	NJIT
4	Walida Ali	Director of Programming and Partnerships	Portal Innovations / NJ Innovation Hub at HELIX
5	Elisa Kallioniemi	Assistant Professor, BME	NJIT
6	Conner Herman	Founder	Percy
7	Murat Guvendiren	Assistant Professor, CME	NJIT
8			
9			
10	Peter Galie	CTO & Co-Founder	Instant Bio, Inc.
11	Roman Voronov	Associate Professor, CME	NJIT
12			
13	Xiaobo Li	Professor, BME	NJIT
14	Antonia Zaferiou	Associate Professor, BME	Stevens Institute of Technology
15	Jennifer D'Angelo	Interim President	New Jersey Innovation Institute
16	Viraj Mane	Venture Studio Director	New Jersey Innovation Institute
17	Farid Alisafaei	Assistant Professor, MIE	NJIT
18	Sagnik Basuray	Associate Professor, CME	NJIT
19	Somenath Mitra	Distinguished Professor, CES	NJIT
20	Li Cai	Professor, BME	Rutgers University
21	Salam Daher	Associate Professor, Informatics	NJIT
22	Amir K. Miri	Associate Professor, BME	NJIT
23	Saikat Pal	Associate Professor, BME	NJIT



Center for Translational Research
New Jersey Institute of Technology

Biographical Sketches

CTR 2026 Workshop on
Personalized, Predictive and Preventive
Healthcare Innovations (P3HI)



Organizer

Atam P. Dhawan, Ph.D.

Chief Strategic Innovation Officer and Senior Vice
Provost for Research
New Jersey Institute of Technology

Atam P. Dhawan is Chief Strategic Innovation Officer and Senior Vice Provost for Research at the New Jersey Institute of Technology (NJIT). He is a tenured Distinguished Professor of Electrical and Computer Engineering, Executive Director of the Center for Translational Research, and Executive Director of Undergraduate Research and Innovation. He is an elected Fellow of the National Academy of Inventors (NAI) and NAI Innovation Ambassador, Fellow of the Institute of Electrical and Electronics Engineering (IEEE), Fellow of the American Institute of Medical and Biological Engineering (AIMBE), and Fellow of the International Academy of Medical and Biological Engineering (IAMBE) and serves on the NAI Board of Directors, NJIT Board of Directors, R&D Council of NJ Board of Directors, IEEE Transactions on Biomedical Engineering Scientific Advisory Board, and the NIH Point-of-Care Research Network Advisory Board which he chaired from 2019-2025.

Dr. Dhawan is a recipient of numerous awards including Martin Epstein Award (1984), NIH FIRST Award (1988), Sigma-Xi Young Investigator Award (1992), IEEE EMBS Early Career Achievement Award (1995), Doermann Distinguished Lecture Award (1999), EMBS Distinguished Lecturer award (2012-2013), IEEE EMBS William J. Morlock Award in Excellence in Biomedical Technology (2021) and NJ Innovate 100 Leaders Award (2024). His research interests lie in medical imaging, medical image analysis, point-of-care technologies, and pattern recognition. Dr. Dhawan has received more than \$86 million in research grants and contracts as Principal Investigator or Co-PI. He has published over 216 research papers and book chapters. He has also authored and co-authored several books in medical imaging, and image analysis. He holds several patents, some of which have been commercialized and being used for screening of skin-lesions for diagnosis of skin-cancers, and in the treatment of spider vein diseases.



INSTITUTION

New Jersey Institute of
Technology



WORKSHOP ROLE

Organizer / Co-Chair



SESSION

Welcome Remarks &
Keynote Session
Moderator



LEADERSHIP

Chief Strategic
Innovation Officer and
Senior VP-Research



Building a collaborative P3HI ecosystem to advance translational research, innovation, and clinically meaningful healthcare technologies.





Welcome Remarks

John Pelesko, Ph.D.

Interim President

New Jersey Institute of Technology

John Pelesko is Interim President of the New Jersey Institute of Technology (NJIT). He served as Provost and Senior Executive Vice President for academic affairs at NJIT from 2023 – 2026. Previously, he was Dean of the College of Arts and Sciences at the University of Delaware and a Professor in the Department of Mathematical Sciences. He is a distinguished scholar and mathematician, with research on mathematical modeling of physical systems, especially micro and nanoscale engineered systems. Pelesko's mathematical interests include the development and application of mathematical methods to problems arising in the microwave heating of ceramics, electron beam welding, diffusion in polymers, solidification thermomechanics, thermoelastic stability and shock dynamics. Currently, his research is focused upon the mathematical modeling of microelectromechanical systems (MEMS) and nanoelectromechanical systems (NEMS). In addition to his area of focus, he has interests and contributions in other areas, including integer sequences, tiling problems, and physics education.

**INSTITUTION**

New Jersey Institute of Technology

**WORKSHOP ROLE**

Welcome Remarks

**SESSION**

Program Opening

**EDUCATION**

Ph.D., Mathematical Sciences, NJIT; B.S., Mathematics, University of Massachusetts



Welcome Remarks

Pradeep Fulay, Ph.D.

Program Director, NSF ART Program

National Science Foundation

Pradeep Fulay is the lead Program Director for the Accelerating Research Translation (ART) program in the Technology, Innovation, and Partnerships (TIP) Directorate at NSF. He is also the lead for the Quantum Technology and Persons with Disabilities (PWD) tracks in the Convergence Accelerator program in TIP Directorate. Pradeep is an internationally renowned researcher and educator with significant leadership experience in building, interdisciplinary, convergent research fueled by strong, creative, and sustainable partnerships with industry, non-profits, and government agencies. He is also a skilled research administrator with deep knowledge of such issues

**INSTITUTION**

National Science Foundation (NSF)

Pradeep Fulay, Ph.D. | *Biography continued*

as acceleration of research translation, leading large, complex, and interdisciplinary teams, intellectual property generation, management, as well export control, and responsible conduct of research. Dr. Fulay earned his undergraduate (B.Tech) and graduate (M.Tech) degrees from Indian Institute of Technology (IIT) Bombay. He then earned his Ph.D. in Materials Science and Engineering from University of Arizona, Tucson in 1989. From 1989-2012 he served as a tenured professor in Swanson School of Engineering at University of Pittsburgh, in Pittsburgh, Pennsylvania. His research contributions in the areas of chemical synthesis of advanced electronic and magnetic materials are internationally recognized. Pradeep is an elected Fellow of the American Ceramic Society. He has authored three textbooks in the area of materials science and engineering, and these have been translated in many languages. Dr. Fulay served as a Program Director in the Electrical, Cyber and Communication Systems (ECCS) division from 2008-2011.

During his tenure in ECCS, he helped transform the Electronic, Magnetic, and Photonic devices (EPMD) program from conventional silicon based devices to those that are based on organic, flexible, and hybrid devices for applications in alternative energy technologies, sensors, and sustainability. He led the development of BioFlex, an Emerging Frontiers of Research and Innovation (EFRI) program, aimed at applications of printed, flexible devices based on organic electronics for in-vivo and ex-vivo applications related to healthcare.



INSTITUTION

National Science Foundation (NSF)



WORKSHOP ROLE

Welcome Remarks



SESSION

Program Opening



EDUCATION

Ph.D., Materials Science & Engineering, University of Arizona; B.Tech. & M. Tech., IIT Bombay

Co-Chair / Moderator

Arunan Skandarajah, Ph.D.

Founder & Principal

Nalam Ventures



[Arunan Skandarajah](#) is the Founder and Principal at Nalam Ventures LLC, a consulting firm specialized in healthcare technology commercialization. He is a healthcare systems thinker and navigator who has worked at many scales: from organelle assembly at UC

Berkeley to global malaria elimination strategy at the Gates Foundation, from corporate strategy at McKinsey to launching new data functions at the FDA and even a new federal R&D agency, ARPA-H. What connects those experiences is a simple conviction: the people who live healthcare every day — providers, innovators, patients, and caregivers — need better tools and better support.

Arunan Skandarajah, Ph.D. | *Biography continued*

He is optimistic for the tools that scientists and clinicians can build but knows technology isn't the only hard part. Dr. Skandarajah tracks the frontier in sensing, diagnostics, and applied AI, while keeping one foot in the policy, funding, and regulatory environment that shapes what actually reaches patients. As an impact investor, he has backed innovations in hardware such as point-of-care ultrasound deployed across Sub-Saharan Africa and highly automated diagnostics manufacturing. He also specializes in the innovation funnel itself, building new funding approaches that bring together different types of capital and testbeds to evaluate and advance the right new technologies.

At ARPA-H, he helped build a new agency from its earliest days. Starting as a mid-career Presidential Innovation Fellow supporting a White House biomedical moonshot initiative, he scaled with the organization to 300+ federal and contract staff. He ultimately managed the agency's SBIR program, leading a team and an extended network of commercialization experts to help small business awardees navigate the path from laboratory to market.



INSTITUTION
Nalam Ventures



WORKSHOP ROLE
Co-Chair / Moderator



SESSION FOCUS
Funding & Investments in
Translational Research and
Innovation Ecosystems



LEADERSHIP
Former Small Business
Manager & Translational
R&D and Commercialization
Lead, ARPA-H

Distinguished Keynote Speaker

Tiffani Bailey Lash, Ph.D.

Program Director, Point-of-Care Research Network
NIH / NIBIB



Tiffani Bailey Lash, Ph.D.
serves as a Health Scientist
Administrator for the National
Institutes of Biomedical Imaging

and Bioengineering (NIBIB) at the National Institutes of Health (NIH). Dr. Lash is the Program Director for the NIH Rapid Acceleration of Diagnostics (RADx®) Tech and Advanced Technology Platforms initiative, NIH Technology Accelerator Challenge (NTAC), and the NIBIB Point of Care Technologies Research Network. She also serves as co-coordinator for the NIH Common Fund's Harnessing Data Science for Health Discovery and Innovation in Africa. Her research portfolio includes Point of Care Technologies and Digital Health, both with the goal of developing biomedical technologies through collaborative efforts that merge scientific and technological capabilities with clinical need.



INSTITUTION
National Institutes of Health /
National Institute of
Biomedical Imaging and
Bioengineering

Tiffani Bailey Lash, Ph.D. | *Biography continued*

Prior to her current position, Dr. Lash worked within the NIH's science policy administration. During that time, she worked at the National Institute of General Medical Sciences and National Heart Lung and Blood Institute, as well as the NIH Office of the Director. Dr. Lash has been selected as a science policy fellow for both the American Association for the Advancement of Science (AAAS) and the National Academy of Engineering. She also has a background in small business innovation and intellectual property. Dr. Lash earned her Ph.D. in Physical Chemistry from North Carolina State University via a collaboration between the Departments of Chemistry and Chemical and Biomolecular Engineering. Her interdisciplinary research interests include microfluidics, biopolymers with controlled molecular architecture, and biosensor technologies.



INSTITUTION

NIH / National Institute of Biomedical Imaging and Bioengineering



WORKSHOP ROLE

Distinguished Keynote Speaker



SESSION FOCUS

HealthTech, Digital Health & AI Trends — NIH Perspective



LEADERSHIP

Program Director - NIH Rapid Acceleration of Diagnostics (RADx®) Tech and NIBIB Point of Care Technologies Research Network

Distinguished Keynote Speaker

Robert Cohen

Vice President, Innovation & Technology, Orthopedics
Stryker



Robert Cohen is Vice President of Innovation and Technology for Stryker's Orthopaedics Group. Robert leads the development of the group's technical strategy across digital, AI, surgical robotics, guidance, healthcare data access, and R&D talent growth. He also serves as a thought leader and company spokesperson, representing Stryker's innovation at industry conferences, investor forums, and in media engagements. Additionally, Robert chairs the MedTech industry's AdvaMed's Digital Health Technology Board, helping to guide national policy and advocacy efforts around digital health, reimbursement, and data access.

With over 40 years of experience in the medical device industry, Robert has been at the forefront of orthopedic innovation, contributing to advancements in joint replacement and spinal implants, novel biomaterials, 3D printing technology, and robotics. His extensive expertise helps to ensure Stryker continues to expand the organization's mission to improve patient lives.

Robert Cohen | *Biography continued*

Prior to his current role, Robert held the positions of Chief Technology Officer for Stryker's Joint Replacement division and President of Stryker's Digital, Robotics, and Enabling Technologies organization. He holds more than 25 patents and frequently speaks at medical education conferences globally. He also serves on numerous boards and is the Chair of the Board of Trustees of the New Jersey Institute of Technology.

Robert is a Fellow of the American Institute for Medical and Biological Engineering and a Fellow of the National Academy of Inventors. He was recently elected to the prestigious National Academy of Engineering (NAE), one of the highest professional distinctions in engineering. This honor recognizes his outstanding contributions to orthopedic surgical procedures and devices, as well as his leadership in additive manufacturing and biomaterials.

Robert earned his bachelor's degree in mechanical engineering and master's degrees in both engineering management and mechanical engineering, specializing in biomechanics, from the New Jersey Institute of Technology.



COMPANY

Stryker



WORKSHOP ROLE

Distinguished Keynote Speaker



SESSION FOCUS

HealthTech, Digital Health & AI Trends — Industry Perspective



EDUCATION

B.S., Mechanical Engineering; M.S., Engineering Management; M.S., Mechanical Engineering/Biomechanics — NJIT

Distinguished Keynote Speaker

Joel Klein, M.D.

EVP / Chief Digital & Information Officer
Hackensack Meridian Health



Joel Klein, M.D. is the Executive Vice President and Chief Digital and Information Officer at Hackensack

Meridian Health, the largest and most comprehensive and integrated health care network in New Jersey. He oversees the entire digital enterprise for 18 hospitals and more than 36,000 team members, 7,000 physicians, and over 500 patient care locations. Prior to joining Hackensack Meridian Health, Dr. Klein served as the Chief Information Officer and other



ORGANIZATION

Hackensack Meridian Health



SESSION FOCUS

HealthTech, Digital Health & AI Trends — Clinical & Healthcare



EDUCATION

M.D., UT Southwestern; M.P.S., Cybersecurity, UMBC; M.A., Bioethics, University of Washington; B.A., Psychology, Yale

successive technology leadership roles at the University of Maryland Medical System. He trained as an emergency physician at Johns Hopkins University and was on staff for over 20 years at Baltimore Washington Medical Center, where he also served as the emergency medicine services company president.

Dr. Klein holds a BA in Psychology from Yale University, an MA in Bioethics from the University of Washington, and a MPS in Cybersecurity from the University of Maryland, Baltimore County.

Distinguished Keynote Speaker

Steven Schachter, M.D

Chief Academic Officer, CIMIT; Professor of Neurology

CIMIT / Harvard Medical School



Steven Schachter, M.D. is Chief Academic Officer for Cimit in Boston and a

Professor of Neurology at

Harvard Medical School. He is Past President of the American Epilepsy Society and has served on the Epilepsy Foundation of America Board of Directors and as Chair of its Professional Advisory Board. Dr. Schachter has published over 250 articles and chapters and edited or written 40 books. He is the founding editor and past editor-in-chief of the medical journals *Epilepsy & Behavior* and *Epilepsy & Behavior Case Reports*. He has extensive experience conducting, creating, and managing processes and teams that facilitate translational research and commercialization of medical technologies and the diagnosis and treatment of patients. His current focus is accelerating medical technologies from the bench to commercialization by engaging stakeholders, including government agencies and industry leaders. He led the extramural aspects of RADx Tech to support the development, commercialization, and production scale-up of accurate, rapid COVID-19 assays. His efforts have helped to establish a new model of translational research for medical technologies that is now widely applied across multiple funding agencies.



INSTITUTION

CIMIT / Harvard Medical School



WORKSHOP ROLE

Distinguished Keynote Speaker



SESSION FOCUS

HealthTech, Digital Health & AI Trends — Translational Ecosystem Perspective



MEDICAL TRAINING

Case Western Reserve University School of Medicine; Harvard-Longwood Neurology Residency; Beth Israel Epilepsy Fellowship



Fireside Chat Speaker

Barry Datlof

Chief, Business Development & Commercialization,
Medical Technology Transfer
DHA R&D

Barry Datlof is the Chief, Business Development and Commercialization for the Office of Medical Technology Transfer at the Defense Health Agency Research and Development (DHA R&D). The DHA R&D partners with academia, not for profits, industry and other federal agencies to bring biomedical solutions to the Warfighter and civilians through licensing and cooperative research and development. Their portfolio includes technologies in therapeutics, vaccines, diagnostics, devices, and IT. They support inventors from DHA, the U.S. Army, Navy, and Air Force, and whenever biomedical licensing expertise is needed. Labs are located throughout the U.S. and overseas.

Barry is an entrepreneur as well. He cofounded Pregamma, LLC, a female fertility company dedicated to significantly improving the ability of women in their late thirties and early forties to conceive and achieve healthy, full-term pregnancies. He also founded BirchBob, the first XML-based search engine for identifying technologies available for licensing from government, academic, and industry labs. Previously, he founded the technology transfer offices for the American Red Cross and the Dana-Farber Cancer Institute. He received an MBA from the University of Chicago and BA from Swarthmore College.



ORGANIZATION

Defense Health Agency
Research and Development
(DHA R&D)



WORKSHOP ROLE

Fireside Chat Speaker



SESSION FOCUS

Funding & Investments in
Translational Research &
Innovation Ecosystems



LEADERSHIP

Business Development &
Commercialization, Medical
Technology Transfer



Fireside Chat Speaker

Michael Wiley

Vice President

Foundation Venture Capital Group / NJHF

Michael Wiley is Vice President of the New Jersey Health Foundation and its affiliate, Foundation Venture Capital Group, LLC. These organizations provide funding and/or pre-seed investments for health-related projects and start-up companies founded by researchers and clinicians at the following affiliated organizations: Cooper University Health Care, Hackensack Meridian Health, Kessler Foundation, New Jersey Institute of Technology, Princeton University, Rowan University, Rutgers University and Virtua Health.

Mr. Wiley assists the Foundation Venture Capital Group's health-related portfolio companies by providing funding and assisting with the various strategic, operational and back-office management issues associated with developing and growing early-stage health-related companies.

Prior to joining the New Jersey Health Foundation and the Foundation Venture Capital Group, Mr. Wiley's experience included: business development, new venture financing, program/product development, commercial contracting, and intellectual property/technology licensing for organizations such as the New Jersey Economic Development Authority (Edison Innovation Fund), Avaya, Rutgers University, and Lucent Technologies. Mr. Wiley has earned B.A., M.B.A. and J.D. degrees from West Virginia University.



INSTITUTION

Foundation Venture Capital Group / New Jersey Health Foundation



WORKSHOP ROLE

Fireside Chat Speaker



SESSION FOCUS

Funding & Investments in Translational Research & Innovation Ecosystems



INVESTMENT FOCUS

Venture capital and healthcare innovation

Fireside Chat Speaker

**Walida Ali**

Director, Programming & Partnerships

Portal Innovations / NJ Innovation Hub – The Helix

Walida Ali is Director of Programming and Partnerships at Portal

Innovations. Walida leads ecosystem development and strategic partnerships at the NJ Innovation Hub at HELIX. Trained as a molecular bioengineer, she brings expertise in venture creation, life sciences, and healthcare innovation. Prior to joining Portal, she served as Innovation Development Manager at Princeton University, supporting commercialization efforts and startup teams across the NSF I-Corps Northeast Hub. Her experience spans scientific due diligence, university partnerships, fundraising, and business development for biotech companies from seed stage through Series B.

**ORGANIZATION**

Portal Innovations / NJ Innovation Hub – HELIX

**WORKSHOP ROLE**

Fireside Chat Speaker

**SESSION FOCUS**

Funding & Investments in Translational Research & Innovation Ecosystems

**INNOVATION FOCUS**

Molecular bioengineer specializing in venture creation, life sciences & healthcare innovation

Distinguished Panelist

**Jennifer D'Angelo**

Interim President

New Jersey Innovation Institute

Jennifer D'Angelo is a dynamic leader with over 25 years of experience in

healthcare technology and management. As the Interim President at the New Jersey Innovation Institute (NJII), she plays a pivotal role in ensuring the organization runs effectively while guiding it through a significant period of growth and transformation. Jennifer leverages her years of leadership and insight to advance strategic plans, streamline processes, and further operational efficiency while fostering growth and collaboration across various divisions of NJII. Her diverse experience in strategic planning and operational excellence, including implementing EHR systems and leading

**INSTITUTION**

New Jersey Innovation Institute

**WORKSHOP ROLE**

Distinguished Panelist

Jennifer D'Angelo | *Biography continued*

cybersecurity initiatives, underscores her ability to navigate complex environments. Her focus on continuous improvement is steering the organization toward a more agile and innovative future. Jennifer is also the Executive Vice President of Healthcare at NJII, where she drives the mission through data-driven decisions. She oversees both federal and state grant-funded programs and supports the management of the New Jersey Health Information Network (NJHIN), which facilitates statewide patient data exchange. Her commitment to enhancing interoperability aims to reduce healthcare costs while improving population health. Outside of NJII, Jennifer is actively involved in healthcare technology organizations like NJAMHAA, NJHIMSS and HIMSS. She has received multiple prestigious awards, including BINJE's Best in Healthcare Leaders, CIANJ Enterprising Women in Commerce, and Innovate100. As she pursues her Fellow of the American College of Healthcare Executives (FACHE) credential, she continues to support professional development and innovation, regularly sharing her insights at industry events.



INSTITUTION

New Jersey Innovation Institute



WORKSHOP ROLE

Panelist



SESSION FOCUS

Information Systems, AI & Integrated Technology Innovations in Personalized and Preventive Healthcare



EDUCATION

M.S., Healthcare Management;
B.S., Business Administration —
Thomas Edison State University



Distinguished Panelist

Olga Troyanskaya, Ph.D.

Director & Professor
Princeton University

[Olga Troyanskaya, Ph.D.](#) is the founding Director of Princeton Precision Health

and the Maduraperuma/Khot Professor of Computer Science and Integrative Genomics at Princeton University, and the Deputy Director of Genomics at the Flatiron Institute. Her research builds trustworthy, large-scale AI systems for scientific and clinical discovery, integrating massive, heterogeneous biological datasets. Her group pioneered deep learning and foundation-style models for whole genome interpretation and recently focuses on verifiable, agentic AI that grounds reasoning in primary data and explicitly validates claims.

Olga received her Ph.D. from Stanford University and is an ACM and ISCB Fellow.



INSTITUTION

Princeton University



WORKSHOP ROLE

Panelist



SESSION FOCUS

AI & Integrated Technology Innovations in Personalized & Preventive Healthcare



RESEARCH FOCUS

AI, computational genomics
& precision health

Distinguished Panelist



Lucia Mirabella, Ph.D.

Vice President, AI Strategy & Business
Development
Siemens Healthineers

Lucia Mirabella, Ph.D. is Vice President, AI Strategy and Business Development at Siemens Healthineers, within the company's global Healthcare AI research and innovation organization. In her current role, she leads initiatives to identify opportunities to translate advanced AI technologies into scalable solutions for healthcare providers, partners, and customers.

Before joining Siemens Healthineers, Dr. Mirabella served as Research and Technology Manager at the R&D arm of Siemens, where she led a team delivering cutting-edge solutions in AI, simulation, and digital twin technologies. She managed a multi-million-dollar annual budget, fostered collaborations with leading universities such as Georgia Institute of Technology and UC Berkeley, and played a key role in business acquisition for Siemens' technology innovation hub. Previously, she contributed advancements in modeling and simulation, including accelerating structural topology optimization through deep learning and securing funding for several high-profile research initiatives from agencies like DARPA, NSF, and DOE.

Her academic credentials include a doctorate and master's degree in Mathematical Engineering from Politecnico di Milano, both earned with highest honors. She was a visiting fellow at Emory University and completed a postdoctoral fellowship in the Department of Biomedical Engineering at the Georgia Institute of Technology. She has published 40 peer-reviewed papers, was granted more than 10 patents, and has been recognized with prestigious awards such as Siemens' Inventor of the Year in 2019 and the 2024 Siemens U.S. Excellence Award in "Technology with Purpose".



COMPANY

Siemens Healthineers



WORKSHOP ROLE

Panelist



SESSION FOCUS

AI Strategy & Integrated
Technology Innovations in
Personalized and Preventive
Healthcare



EDUCATION

Ph.D. & Master's,
Mathematical Engineering,
Politecnico di Milano



Distinguished Panelist

Nikhil Thaker, M.D.

Medical Director & Chair, Radiation Oncology
Development
Capital Health

Nikhil G. Thaker, MD,

DHA, MHA, MBA, is a physician executive, radiation oncologist, and clinical informatician whose work focuses on translating artificial intelligence and digital technologies into safe, effective, and scalable cancer care. He serves as Chair and Medical Director of Radiation Oncology at Capital Health and Medical Director of Oncology Research through Capital Health's National Cancer Institute Community Oncology Research Program (NCORP). He previously held clinical informatics, value-based care, and physician leadership roles within a large multispecialty oncology practice. He is also Deputy Editor of AI in Precision Oncology and is board certified in both Radiation Oncology and Clinical Informatics. Dr. Thaker's research and innovation interests include generative AI, large language models, retrieval-augmented generation, clinical decision support, knowledge graphs, multimodal AI, healthcare workflow redesign, and implementation science. His recent work has examined the reliability and limitations of large language models in oncology, including specialty-specific benchmarking, retrieval-augmented approaches such as RadOncRAG, and methods for improving the translation of AI-generated knowledge into clinical practice. He is Co-Founder and Chief Medical Officer of Bayta Systems, an oncology-focused health technology company, and Co-Founder of Bridge Oncology. His broader work spans clinical quality, value-based cancer care, healthcare operations, and the development of learning health systems in which technology augments rather than replaces clinical expertise.



ORGANIZATION
Capital Health



WORKSHOP ROLE
Panelist



SESSION FOCUS
AI, Digital Technologies &
Precision Oncology



CLINICAL FOCUS
Radiation Oncology, Clinical
Informatics & AI in Precision
Oncology



Moderator

Steven Golombek, M.D.

President / Medical Doctor
Allergy & Arthritis Associates

Steven Golombek, M.D. is Managing Partner, Allergy & Arthritis Associates, P.A. a medical practice located in northwestern New Jersey, specializing in allergy, rheumatology, and osteoporosis. He has been responsible for implementing new procedures, billings, human resources, and management.

Steven Golombek, M.D. | *Biography continued*

Dr. Golombek is a Founding Fellow of the American College of Rheumatology. He has been involved in medical research at both the laboratory and clinical levels and co-authored multiple papers in the field of systemic lupus, rheumatoid arthritis, and immunology. Over the years, he has been involved in over 35 clinical trials involving drug development and approval. He has received awards from the New York Arthritis and Northeastern Regional Foundations for his research in immunology.

Dr. Golombek received his A.B., summa cum laude from Brandeis University with high honors in chemistry and biochemistry and was elected to Phi Beta Kappa. He earned an M.D. from The Johns Hopkins University. Following that, he trained in internal medicine at Weill Cornell Medical Center, consisting of The New York Presbyterian Hospital, Memorial Sloan Kettering Cancer Center, and The Hospital for Special Surgery. Subsequently, he pursued a fellowship in rheumatology at The Hospital for Special Surgery. Recently he completed a Master in Health Care Delivery Science from Dartmouth College. He has served on the faculty of Weill Cornell Medical School, Touro College of Osteopathic Medicine and presently, The New York Medical College.



ORGANIZATION

Allergy & Arthritis Associates



WORKSHOP ROLE

Moderator



SESSION FOCUS

Information Systems, AI & Integrated Technology Innovations in Personalized and Preventive Healthcare



MEDICAL TRAINING

M.D., Johns Hopkins; Internal Medicine Residency, Weill Cornell; Rheumatology Fellowship, Hospital for Special Surgery

Distinguished Keynote Speaker

Nandkumar Deorkar, Ph.D.

Senior Vice President, Research & Development
Avantor



Nandkumar “Nandu”
Deorkar, Ph.D., is Senior Vice

President of Research &

Development and Innovation at

Avantor, where he leads global new product and technology development across biologics, cell and gene therapy, mRNA, and emerging modalities. With more than 25 years of experience in biopharmaceutical development, he has driven innovations spanning upstream and downstream processing, including the development of high-performance recombinant Protein A resins for monoclonal antibody purification and



COMPANY

Avantor



WORKSHOP ROLE

Distinguished Keynote Speaker



SESSION FOCUS

Advancing Personalized Healthcare by Enabling a Scalable Drugs & Device Ecosystem



LEADERSHIP

Senior Vice President, Research & Development and Innovation

advanced endonuclease solutions supporting viral vector manufacturing. Dr. Deorkar partners closely with biopharma innovators worldwide to address complex manufacturing challenges and accelerate the delivery of safe, effective therapies to patients.

Distinguished Panelist

Reynold A. Panettieri, Jr., M.D.

Vice Chancellor for Translational Medicine & Science
Rutgers University



Reynold A. Panettieri Jr., M.D. is Professor of Medicine, Vice Chancellor for

Translational Medicine and Science at Rutgers University, and the Director of the Institute for Translational Medicine and Science. This Institute fosters translational studies in health and disease, and integrates the expertise of the disciplines of epidemiology, pharmacology, cell biology, genetics, biochemistry, health economics and informatics across the Rutgers Biomedical and Health Sciences (RBHS) network. Dr. Panettieri is the Principal Investigator of New Jersey's only CTSA Hub entitled 'New Jersey Alliance for Clinical and Translational Science'. Previously, he was the Robert

L. Mayock and David A. Cooper Professor of Medicine in the Pulmonary, Allergy and Critical Care Division of the Department of Medicine, and served as Deputy Director of the Center of Excellence in Environmental Toxicology at the University of Pennsylvania Perelman School of Medicine where he remains Professor Emeritus. He developed expertise in human exposure to ozone, toxicants and particulate matter in the modulation of airway inflammation and hyperresponsiveness. Dr. Panettieri also focuses on proteomic and genomic studies to identify unique proteomic signatures in COPD and asthma. His translational science interests use state-of-the-art cellular and molecular techniques to characterize airway smooth muscle as an immunomodulatory cell, and in the study of cell signaling mechanisms inducing glucocorticoid insensitivity and excitation-contraction coupling. His fundamental studies also focus on translational targets for new therapeutics and bench-to-bedside testing of novel approaches in the treatment of severe asthma and COPD.

Dr. Panettieri is the recipient of numerous honors and awards, including the Robert E. Cooke Memorial Lectureship at the American Academy of Allergy, Asthma and Immunology Annual Meeting, the Joseph R. Rodarte Award for Scientific Distinction and the Recognition



INSTITUTION
Rutgers University



WORKSHOP ROLE
Panelist



SESSION FOCUS
Technology Translation & Partnership Ecosystems in P3HI



RESEARCH FOCUS
Translational medicine, asthma & COPD research

Reynold A. Panettieri, Jr., M.D. | *Biography continued*

Award for Scientific Accomplishments from the American Thoracic Society (ATS). He is also an active member of national professional and scientific societies including the American College of Chest Physicians and ATS; in 2013, he was elected Chair of the Respiratory Structure and Function Assembly of ATS. Dr. Panettieri served as chair of the NIH Lung Cellular, Molecular, and Immunobiology Study Section, is a member of the NIH Distinguished Editorial Panel, and is a member of the American Society for Clinical Investigation and Association of American Physicians. He serves as Editor of *Respiratory Research* and the *British Journal of Pharmacology* and Associate Editor of the *American Journal of Respiratory Cell and Molecular Biology*. He has trained over 200 postdoctoral fellows and undergraduates with 95% of these trainees remaining in scientific investigation. He is principal investigator on several NIH-sponsored grants and industry-sponsored clinical studies and is the author of over 525 peer-reviewed publications.

Dr. Panettieri manages the comprehensive clinical care of patients with asthma and is engaged in clinical investigations focused on the management of asthma and COPD.

Distinguished Panelist



Debbie Hart M.S., APR

President & CEO
BioNJ

Debbie Hart is President and CEO, BioNJ. As BioNJ's founding President and CEO,

Debbie Hart has dedicated her career to championing Patients, medical innovation and access. Since establishing BioNJ in 1994, she has guided the organization in growing New Jersey's diverse life sciences ecosystem — from early-stage innovators to global biopharmaceutical companies.

Under Debbie's leadership, BioNJ has become the leading voice for New Jersey's life sciences community, advocating for policies that strengthen the State's position as a global hub for innovation while helping ensure Patients have access to the medicines they need when they need them — a commitment embodied in BioNJ's guiding mantra, **Because Patients Can't Wait®**.



ORGANIZATION
BioNJ



WORKSHOP ROLE
Panelist



SESSION FOCUS
Technology Translation & Partnership Ecosystems in P3HI



EDUCATION
M.S., S.I. Newhouse School, Syracuse University; B.A., Trenton State College/TCNJ

Debbie's commitment to New Jersey extends beyond BioNJ through her service on numerous State boards and initiatives, including as Chair of the New Jersey Commission on Science, Innovation and Technology, which supports the growth of early-stage companies and helps strengthen innovation and entrepreneurship across the State.

Distinguished Panelist

Chrissy Buteas

President & CEO

HealthCare Institute of New Jersey



[Chrissy Buteas](#) is the President & CEO of the HealthCare Institute of New Jersey (HINJ). Founded in 1997, HINJ serves as the trade association for leading research-based biopharmaceutical and medical technology companies in New Jersey.

A seasoned leader, Buteas has held significant positions throughout her career. Before joining HINJ, she served as the Vice President of Government Affairs at Optimum, a prominent broadband communications and video service provider operating across 21 states. She also served as the Chief Government Affairs Officer of the New Jersey Business & Industry Association (NJBIA), where she influenced policies affecting the 1 million employees of member companies. In addition, she led the NEW JOBS PAC, the State's largest and most influential ideological business political action committee.

Prior to NJBIA, Buteas served as President and CEO of the Home Care & Hospice Association of New Jersey, representing New Jersey home health agencies, hospices, and healthcare service firms providing care to the state's Medicare, Medicaid, and private-pay patients. Buteas serves on the boards of trustees of Middlesex College, New Jersey Council of County Colleges, NJ Innovation Institute (NJII), Thanexus, Inc. (a funeral service cooperative), the National Association of Corporate Directors, NJ Chapter (NACD-NJ), South Jersey Technology Park at Rowan University, the New Jersey Medical Assistance Advisory Council, Focus NJ, Junior Achievement of New Jersey, Women's Political Caucus of NJ, and The Historic Village at Allaire. She recently served on Governor Mikie Sherrill's Economic Development and Innovation Action Team.



INSTITUTION

HealthCare Institute of NJ



WORKSHOP ROLE

Panelist



SESSION FOCUS

Technology Translation & Partnership Ecosystems in P3HI



LEADERSHIP

President & CEO, HINJ; extensive experience in government affairs and business advocacy

Buteas holds an MPA from the School of Public Affairs and Administration at Rutgers University-Newark and a BA from Rowan University.

Distinguished Panelist

Conner Herman, BCBA, MBA

Founder & CEO
Percy



Conner Herman, BCBA, is the Founder, CEO, and Principal Investigator of Percy, a contactless, non-video AI sleep monitoring platform that uses sensors to "perceive" what is actually happening in a patient's nighttime environment instead of relying on sleep logs or patient diary. Percy is purpose-built for neurodivergent populations, starting with autism, where 80% of individuals have clinically significant sleep problems that go unmeasured and undertreated. She holds a B.S. in English Literature from the United States Air Force Academy, an M.A. in English Literature from the University of Virginia, an M.S. in Behavioral Psychology from Pepperdine University, and an MBA from Northwestern University's Kellogg School of Management. She is also a Board Certified Behavior Analyst.

Herman has 20 years of experience working with families and children to improve sleep, including extensive clinical experience with children with autism. Prior to founding Percy, she co-founded Dream Team Baby, a boutique sleep consultancy that provided in-home behavioral sleep support to thousands of families. Her experience led her to develop Percy's sensor-based technology, which combines behavioral science, artificial intelligence, and real-time sensing to provide objective insights into sleep patterns for clinicians and researchers.

Herman's career also includes more than a decade of service as a United States Air Force intelligence officer and reservist, including work at the National Security Agency focused on innovation and rapid technology development. Percy is venture-backed by Techstars, was featured at the NIH Research and Innovation Translation Partnerships Conference and Technology Showcase: Point of Care Technologies and Digital Health in 2026 and has been recognized by organizations including MassChallenge, the Alliance for Pediatric Device Innovation, the MedTech Collaborative, and the Endeavor Mount Sinai AI and Technology Healthcare Summit.



COMPANY
Percy



WORKSHOP ROLE
Panelist



SESSION FOCUS
Technology Translation & Partnership Ecosystems in P3HI



EDUCATION
MBA, Kellogg; M.S., Behavioral Psychology, Pepperdine University

Moderator

Craig Arnold, Ph.D.

Professor and Vice Dean of Innovation
Princeton University



Craig B. Arnold is the Susan Dod Brown Professor of Mechanical and Aerospace Engineering and Vice Dean for Innovation at Princeton. As vice dean for innovation, Craig B. Arnold leads the Princeton Innovation initiative and oversees the University's efforts to grow Princeton's culture of innovation across disciplines. The role aims to strengthen the University's capacity to engage with entrepreneurs, alumni, industry, technology investors and other potential partners.

Arnold is Princeton's Susan Dod Brown Professor of Mechanical and Aerospace Engineering. He has served since 2015 as the director of the Princeton Institute of Materials. He leads a vibrant research program that ranges from basic science to applied technology aimed at developing a deeper understanding of materials synthesis and processing in areas including advanced manufacturing, energy storage and conversion, and optics and photonics. In 2017, Arnold received an Edison Patent Award from the Research & Development Council of New Jersey for the creation of an adjustable lens that focuses light in response to sound waves. The tunable acoustic gradient (TAG) lens is now used in many industrial and research applications including robotics, machine vision, industrial metrology and ultra-high precision microscopy. Arnold holds 13 granted patents, and is the co-founder of two companies based on research conducted at Princeton. TAG Optics Inc. developed the TAG lens and was later acquired by a major precision instrument manufacturer. Invictis Technologies is working to create a safer and less painful automated intravenous injection device.

Arnold was named a Knight of Laser Technology (2018) by the International Academy for Production Engineering (CIRP)-Photonic Technologies. He has received a number of prominent industry awards for his technology including R&D World magazine's R&D 100 award, the SPIE Prism Award for Photonics Innovation, and Vision Systems Design magazine's Innovators Award. Arnold has received prestigious federal awards and grants, including the National Science Foundation CAREER Award and the Office of Naval Research (ONR) Young Investigator Award.



INSTITUTION
Princeton University



WORKSHOP ROLE
Moderator



SESSION FOCUS
Technology Translation &
Partnership Ecosystems in P3HI



EDUCATION
Ph.D., Experimental Condensed
Matter Physics, Harvard
University; B.S., Haverford
College

Distinguished Panelist

**Lin Dong, Ph.D.**

Assistant Professor, Mechanical & Industrial
Engineering
New Jersey Institute of Technology

Lin Dong, Ph.D. is an Assistant Professor in the Department of Mechanical & Industrial Engineering at New Jersey Institute of Technology (NJIT). She earned her Ph.D. from Stevens Institute of Technology, where she received the Innovation and Entrepreneurship Doctoral Fellowship. Prior to joining NJIT, Dr. Dong was a Research Associate at Thayer School of Engineering at Dartmouth College, where she was honored with the Arthur L. Irving Institute for Energy and Society Award. Dr. Dong's research is supported by the National Institutes of Health (NIH), the National Science Foundation (NSF), the American Heart Association (AHA), the New Jersey Health Foundation, and other organizations. Her interdisciplinary research integrates nanomaterials, nanofabrication, flexible electronics, and soft robotics to develop innovative energy harvesting and sensing technologies for biomedical and healthcare applications. A central focus of her work is translating advances in materials and device engineering into practical technologies for physiological monitoring, wearable and implantable devices, and human-machine interfaces. Through collaborations across engineering and medicine, her research seeks to bridge fundamental technological innovation with unmet clinical needs and advance emerging technologies toward real-world healthcare applications.

**INSTITUTION**

New Jersey Institute of
Technology

**WORKSHOP ROLE**

Panelist

**SESSION FOCUS**

Academic Research &
Innovation Translation —
Cardiac Patch / Heart Health
Monitoring

**EDUCATION**

Ph.D. & M.E., Mechanical
Engineering, Stevens Institute
of Technology; B.E., Harbin
Institute of Technology

Distinguished Panelist

**Elisa A. Kallioniemi, Ph.D.**

Assistant Professor, Biomedical Engineering
New Jersey Institute of Technology

Elisa A. Kallioniemi, Ph.D. is an Assistant Professor of Biomedical Engineering and Director of the Brain Stimulation Laboratory at the New Jersey Institute of Technology (NJIT). She is a neural engineer and brain stimulation scientist whose research uses non-invasive brain stimulation to understand brain function and develop new therapeutic approaches for neurological and psychiatric disorders. She earned her Ph.D. at the University of Eastern Finland, where she trained in transcranial magnetic stimulation (TMS) methodology, and completed postdoctoral training in the psychiatric applications of TMS at Stanford University and the University of Texas Southwestern Medical Center. Her lab combines TMS with electroencephalography, electromyography, and other physiological measures to develop biomarkers of brain function, with applications in pain, alcohol use, traumatic brain injury, and sleep and cognition. She has authored more than 50 peer-reviewed publications.

Dr. Kallioniemi's translational work focuses on making TMS more precise, efficient, and individualized by integrating artificial intelligence and robotics. Her lab has developed a neurophysiology-informed Bayesian optimization framework that automates TMS motor mapping, locating stimulation targets with fewer pulses and greater accuracy than conventional grid-based approaches. Her work has been supported by NIH, the New Jersey Alliance for Clinical and Translational Science, the New Jersey Health Foundation, and the Foresight Institute, where she is a 2026 Fellow. She serves on the editorial board of the Journal of Neuroscience Methods. She is also a Senior Member of IEEE, Vice Chair of the IEEE North Jersey EMBS Chapter, and co-director of the NYC Clinical & Research TMS Course.

**INSTITUTION**

New Jersey Institute of Technology

**WORKSHOP ROLE**

Panelist

**SESSION FOCUS**

AI-Guided Robotic System for Precision Transcranial Magnetic Stimulation

**EDUCATION**

Ph.D., Applied Physics,
University of Eastern Finland;
B.S. & M.S., Aalto University

Distinguished Panelist

Li Cai, Ph.D.

Professor, Biomedical Engineering
Rutgers University



Li Cai, Ph.D. is Professor of Biomedical Engineering at Rutgers University and a translational researcher whose work integrates gene therapy, regenerative medicine, genomics, computational biology, and neural engineering to develop personalized treatments for spinal cord injury, traumatic brain injury, and neurodegenerative diseases.

He received his Ph.D. from Rutgers Robert Wood Johnson Medical School and completed research training at Harvard Medical School and the Dana-Farber Cancer Institute. His laboratory has developed innovative gene therapy approaches that promote neural regeneration and functional recovery after spinal cord injury. His technologies have attracted venture capital investment, led to startup formation, and advanced toward clinical translation, exemplifying the pathway from academic discovery to patient impact.



INSTITUTION
Rutgers University



WORKSHOP ROLE
Panelist



SESSION FOCUS
Academic Research &
Innovation Translation



EDUCATION
Ph.D., Rutgers University &
UMDNJ–Robert Wood Johnson
Medical School

Distinguished Panelist

Peter Galie, Ph.D.

Associate Dean & Professor; Co-Founder & CTO
Rowan University / Instant Bio, Inc.



Peter A. Galie, Ph.D., is Professor of Biomedical Engineering and Associate Dean of Research and Graduate Studies at the Henry M. Rowan College of Engineering, Rowan University. He also serves as a co-founder and Chief Technology Officer of Instant Bio, Inc. He earned his Ph.D. in Biomedical Engineering from the University of Michigan and completed postdoctoral training in bioengineering and biophysics at the University of Pennsylvania under



INSTITUTION
Rowan University / Instant Bio,
Inc.



SESSION FOCUS
Academic Research &
Innovation Translation



EDUCATION
Ph.D., Biomedical Engineering,
University of Michigan; M.S.,
RPI; B.S., Princeton

Peter Galie, Ph.D. | *Biography continued*

Christopher Chen and Paul Janmey. His research focuses on mechanobiology and microfluidics, with a particular emphasis on the blood-brain barrier and spinal cord injury repair.

Dr. Galie has authored 54 peer-reviewed publications and secured research funding from agencies including the NIH, NSF, and the American Heart Association. He holds two issued patents with four additional applications currently in review and has mentored numerous graduate and undergraduate researchers since beginning his laboratory at Rowan in 2015.



INSTITUTION

Rowan University / Instant Bio, Inc.



WORKSHOP ROLE

Panelist



SESSION FOCUS

Academic Research & Innovation Translation



EDUCATION

Ph.D., Biomedical Engineering, University of Michigan; M.S., RPI; B.S., Princeton

Distinguished Panelist

Jennifer J. Kang-Mieler, Ph.D.

Chair, Biomedical Engineering; Director, Semcer Center
Stevens Institute of Technology



Jennifer J. Kang-Mieler, Ph.D., is the George Meade Bond Endowed

Professor and Chair of Biomedical Engineering and Director of the Semcer Center for Healthcare Innovation at Stevens Institute of Technology. She received her B.A. in Mathematics, M.S. in Applied Mathematics, and Ph.D. in Biomedical Engineering from Northwestern University and completed postdoctoral training in Ophthalmology and Visual Sciences at the University of Illinois at Chicago. She is a Fellow of the American Institute for Medical and Biological Engineering (AIMBE) and the Association for Research in Vision and Ophthalmology (ARVO).

Dr. Kang-Mieler's NIH-supported translational research focuses on ophthalmic drug delivery and retinal imaging and analysis, including artificial intelligence and machine learning.



INSTITUTION

Stevens Institute of Technology



WORKSHOP ROLE

Panelist



SESSION FOCUS

Academic Research & Innovation Translation



EDUCATION

Ph.D., Biomedical Engineering; M.S., Applied Mathematics; B.A., Mathematics — Northwestern University

Her work seeks to improve the treatment of retinal diseases through sustained drug delivery and to identify early changes in retinal vascular function through quantitative imaging. Her research has resulted in three U.S. patents in ocular drug delivery and has advanced these technologies through preclinical evaluation toward clinical translation.

Dr. Kang-Mieler has served on the ARVO Board of Trustees and as Vice President of ARVO. As Director of the Semcer Center for Healthcare Innovation, she leads multidisciplinary efforts to advance engineering-driven technologies for earlier detection, prevention, and translation into healthcare.

Moderator

Michael (Mike) Zwick, Ph.D.

Senior Vice President for Research & Professor,
Genetics
Rutgers University



Michael Zwick, Ph.D., is the Senior Vice President for Research at Rutgers University, a Professor of Genetics at Rutgers-New Brunswick, and a fellow of the American Association for the Advancement of Science (AAAS). As Rutgers University's Chief Research Officer, he oversees a university-wide research enterprise with nearly \$1 billion in sponsored awards. He serves as Rutgers' chief research officer and institutional official and leads the Office for Research's 300 staff. His people-focused leadership cultivates emerging leaders who bring strategic clarity, operational rigor, and partnership skills supporting agile, innovative 21st-century institutions. Dr. Zwick earned a B.S. from Cornell University in Biological Sciences, a Ph.D. in Population Biology at the University of California, Davis, and was a Professor of Human Genetics at Emory University's School of Medicine. His research uses genetic principles to identify causes of rare and common disorders.

Dr. Zwick served as a US Navy officer. He served onboard the USS KAUFFMAN (FFG 59) for 38 months and is a Desert Storm veteran. Dr. Zwick also served on active duty during the Iraq and Afghanistan war efforts from November 2002 through November 2004. He retired at the rank of Commander (O-5) after more than 25 years of service.



INSTITUTION
Rutgers University



WORKSHOP ROLE
Moderator



SESSION FOCUS
Academic Research &
Innovation Translation



EDUCATION
Ph.D., Population Biology, UC
Davis; B.S., Biological
Sciences, Cornell University

Moderator

Shawn Chester, Ph.D.

Associate Vice Provost for Research Collaborations
and Partnerships

Associate Professor, Mechanical Engineering
New Jersey Institute of Technology



Shawn Chester, Ph.D. is currently Associate Vice Provost for Research Collaborations and Partnerships and an Associate Professor in Mechanical Engineering at the New Jersey Institute of Technology. Shawn was previously a postdoctoral researcher at Lawrence Livermore National Laboratory. Prior to that he obtained his PhD in solid mechanics from the Mechanical Engineering at MIT and obtained both his BS and MS in Mechanical Engineering from NJIT.

As the inaugural position holder for the Associate Vice Provost for Research Collaborations and Partnerships, Shawn's role is to enhance research collaborations and partnerships, bringing investigators and institutions together to conceptualize and develop large-scale multidisciplinary research initiatives and translate them into compelling funding opportunities. Shawn is Co-Principal Investigator on the NSF Accelerating Research Translational Cooperating Agreement award and Associate Director of the Center for Translational Research at NJIT.

Shawn's research focus in the past few years has been the development of experimentally validated continuum level constitutive theories for large deformation multiphysics behavior of polymeric materials and the associated numerical implementation. His work spans most aspects of mechanics, experimental characterization, theoretical modeling, numerical implementation, and experimental validation. Shawn has been recognized by young investigator awards through the ASME AMD Thomas J.R. Hughes Award, an NSF CAREER, and the ASME AMD Haythornthwaite award.

**INSTITUTION**

New Jersey Institute of
Technology

**WORKSHOP ROLE**

Moderator

**SESSION FOCUS**

Translational Research and
Technology Showcase in P3HI

**EDUCATION**

Ph.D., Mechanical Engineering,
Massachusetts Institute of
Technology (MIT), 2011; M.S.,
Mechanical Engineering, NJIT,
2006; B.S., Mechanical
Engineering, NJIT, 2005

PARTICIPATING ORGANIZATIONS

CTR 2026 P3HI Workshop * HealthTech, Digital Health & AI trends



PARTICIPATING ORGANIZATIONS

CTR 2026 P3HI Workshop * HealthTech, Digital Health & AI trends

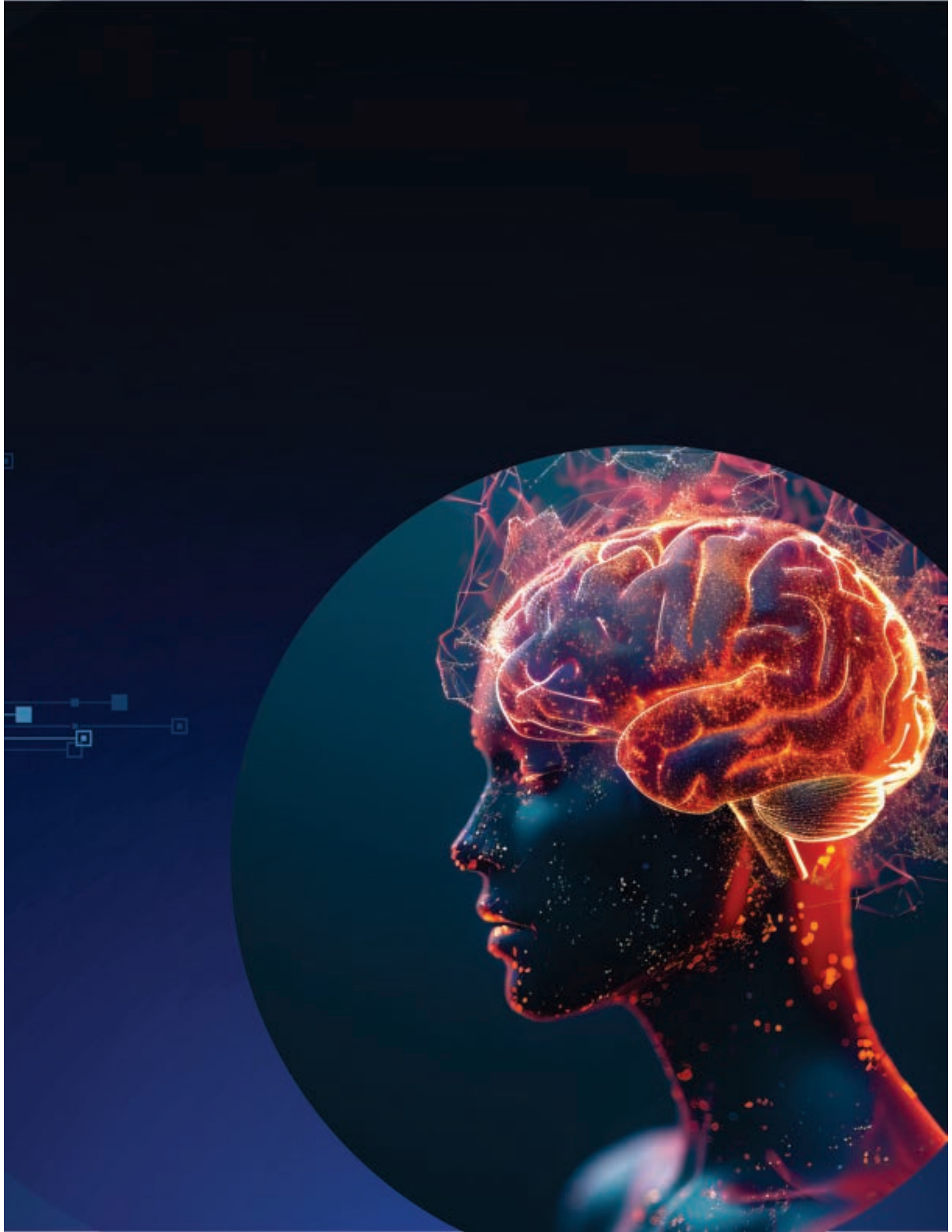


Notes

[illegible]

Notes

A decorative graphic in the bottom left corner. It features a hand holding a pen, a hexagonal shape, and the letters 'RT' in a bold, sans-serif font. The background of the graphic is dark blue and black, with some red and white lines.





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