



# CONFERENCE AGENDA



- 8:00am - Breakfast and Registration
- 9:00am - Welcome to the 2024 NeuroIMPACT Conference  
*Dr. Nathan C. Rowland, MD, PhD, FAANS*
- 9:15am - Remarks on Occasion  
*Dr. David Cole, President, MUSC*
- 9:25am - Introduction of Speaker  
*Dr. Jessica Barley, PhD, CNIM*
- 9:30am - Keynote  
*Jack Shaw, MBA*
- 10:15am - Questions and Break

## Transforming Care

- 10:40am** Building the Future: Advancing EMR Development Using AI-enabled Tools and Strategies  
*Rebecca G. Mishuris, MD, MPH, MS*
- 11:00am** Precision Medicine Revolution: AI Applications in Epilepsy Diagnosis and Treatment  
*Leonardo Bonilha, MD, PhD*
- 11:20am** AI in Neurosurgery: Systems of Care, Triage, Evaluation and Transfer  
*Alejandro Spiotta, MD, FAANS*
- 11:40am** Continuous Monitoring AI for Early Detection of Acute Inpatient Conditions  
*Aaron Masino, PhD*
- 12:00pm** AI and Brain-Machine Interfaces: IEEE Milestone Achievement Recognition for the First Control of a Robot Using EEG signals  
*Stevo Bozinovski, PhD and Liljana Bozinovska, MD, PhD*

## Transforming Education

- 10:40am** Culture-Building Practices For Successful Integration of AI Across Large Health Care Enterprises  
*Margaret Lozovatsky, MD, FAMIA*
- 11:00am** Siri, scalpel, please! Siri: Alexa, order more scrapples!  
*Aaron Heath, JD, CISSP*
- 11:20am** Bolstering the Biomedical AI and Engineering Pipeline: Introducing the Call Me Doctor Program  
*Jordon Gilmore, PhD*
- 11:40am** The View of AI from an Epidemiologist: Challenges and Opportunities in Educating the Next Generation  
*Jeffrey Korte, PhD*
- 12:00pm** **Panel Discussion:** Convergence of Intelligence: Harnessing AI to Transform the Future of Medicine, Learning, and Research  
*Mary Mauldin, EdD and Timothy R. Smith, MD, PhD, MPH*

## Transforming Collaboration

- 10:40am** From Lab to Market: Accelerating Impact in Medical AI  
*Daniel Donoho, MD*
- 11:00am** Building the Future: Multi-Institutional AI Institutes in Neuroscience  
*G. Hamilton Baker, MD, MS (BDSI)*
- 11:20am** Treating Cerebrovascular Disease Using Computers  
*Jason Davies, MD, PhD*
- 11:40am** Concept to Reality: Showcasing the Latest AI Tools at MUSC  
*Kaitlyn Torrence, MHA and Franco Cardillo, MHA*
- 12:00pm** AI for the Brain in Space: Partnering with the US Air Force to Develop Technologies for Human Deep Space Flight  
*Mark Rosenberg, MD*

## Lunch and Vendor Presentations

- 1:15pm** **Point:** Harnessing AI for Accurate Brain Tumor Diagnosis: Uncovering the Algorithm-Making Process  
*Carlo Vermeulen, PhD*
- 1:45pm** **Counterpoint:** Examining the Impact of AI on Real-World Brain Cancer Patient Workflows and Research Strategies  
*Tiffany Baker, MD, PhD, Daynna J. Wolff, PhD, Alicia Zukas, MD, Angela Alexander-Bryant, PhD, Alex Vandergrift, MD, Charlotte Rivers, MD, Ben Strickland, MD*

- 1:15pm** Using Computer Vision to Monitor Suturing Technique for Surgical Residents  
*Joseph Singapogu, PhD*
- 1:30pm** Preparing Health Professionals for Digital Health: Implications for Collaborative Practice  
*Dusti Annan, EdD, Jeff Borckardt, PhD, Kimberly Kascak, MS, and Lisa Langdale, MSN, RN*
- 1:45pm** Smart Job Search: Leveraging AI for Career Opportunities in Neuroscience  
*Kimberly Kicielinski, MD, MSPH*
- 2:00pm** Developing Generalizable AI Models for Neuroscience Research  
*Niany Li, PhD*

- 1:15pm** **Panel Discussion:** Innovations in Cybersecurity for a Connected World  
*Ryan Truskey, Chief Information Officer, South Carolina Law Enforcement Division (SLED)*
- 1:45pm** **Panelists:** Cyber Sentry: How can inter-institutional collaboration in AI form a stronger digital defense network?  
*Farhath Zareen, PhD and Arpit Sharma, MBA, PhD*

## Break and Vendor Presentations

- 2:45pm** **Panel Discussion:** Using AI to Revolutionize Management and Prognosis of Brain Disorders  
*Ezequiel "Zeke" Gleichgerrcht, MD*
- 3:15pm** **Panelists:** What Are the Essential AI Tools Needed to Reshape Care of Neuroscience Patients?  
*Christopher Metts, MD, Maria Spampinato, MD*

- 2:45pm** A Framework for Responding to Generative AI in Education  
*Julaine Fowlin, PhD and Mary Smith, MT*
- 3:00pm** Future-Ready Learners: Parental Involvement in Fostering AI Literacy and Ethical Use  
*Kelli Jenkins, MS Ed*
- 3:15pm** AI and the New Research Toolkit: The Shifting Landscape for Graduate and Post-Doctoral Studies in Neuroscience  
*Claudia Salazar, PhD*
- 3:30pm** AI and Lifelong Learning: Strategies for Continuous Professional Development  
*Teresa Stephens, PhD, RN, CNE and Hunter S. Stephens, PhD*

- 2:45pm** **The Pitch:** Proposing Ideas and Navigating Intellectual Property in Collaborative AI-Neuroscience Ventures  
*Jon Halford, MD*
- 3:15pm** **Pitch Contestants:** Iterative Ideation for Successful Entry Into the Neuro AI Space  
*Chase Walton*      **AI and Multi-omics Data Integration**  
*Daniel Lench, PhD*      **Use of fMRI to predict DBS response**  
*Brian Saway, MD*      **Use of Ultrasound to diagnose SCI**

**4:00pm** Conference Ends - Thank You For Attending!

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## Conference Description

NeuroIMPACT 2024 will bring together leading experts, researchers, and innovators to explore the cutting-edge applications of AI in basic and clinical neuroscience. Don't miss this unique opportunity to advance your career and position yourself in the middle of the most exciting revolution in our field!

## Credit Designation

The Medical University of South Carolina designates this live activity for a maximum of 7.5 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Nurses: Nursing Credit: Most states accept CMEs that apply to a specific nursing specialty as nursing continuing education. Please check with your respective State Board of Nursing to ascertain the equivalent number of contact hours offered for 7.5 *AMA PRA Category 1 Credit(s)*<sup>™</sup>

## Accreditation

The Medical University of South Carolina is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

## Disclosure

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## Americans With Disabilities Act

It is the policy of the Medical University of South Carolina not to discriminate against any person on the basis of disabilities. If you feel you need services or the auxiliary aids mentioned in this act in order to fully participate in this continuing medical education activity, please call the Office of CME at 843-876-1925.



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AI IN NEUROSCIENCE

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CHARLESTON, SC | MAY 2, 2024