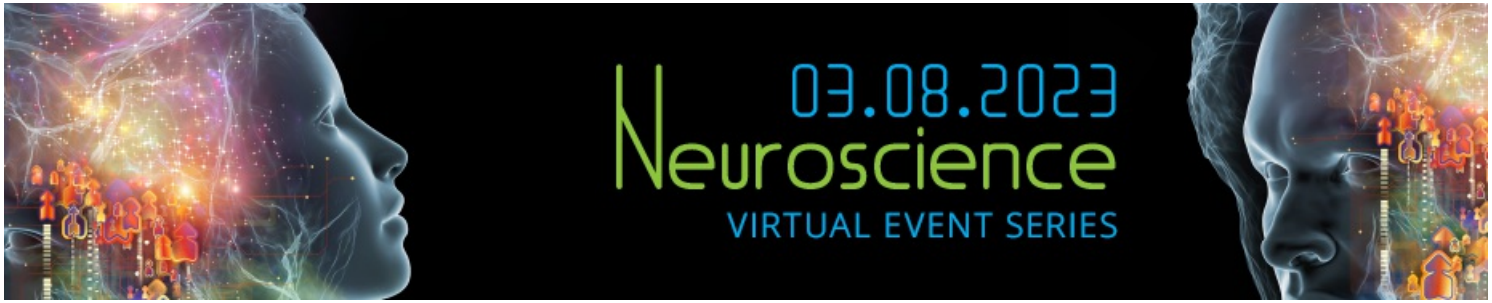

Date	Time	Track	Presentation Title	Speaker
8-Mar	06:30 - 07:30 AM	NIH BRAIN Initiative: Artificial Neural Networks and Explainable AI models at the Service of Neuroscience Research	Keynote Presentation: Designing Machine Learning Processes For Equitable Health Systems with Live Q&A	Marzyeh Ghassemi, PhD Assistant Professor, Electrical Engineering and Computer Science, Institute for Medical Engineering and Science, MIT
8-Mar	07:30 - 08:30 AM	New Developments in Neurodegenerative Disease Research	Keynote Presentation: Improving Research Translation in Dementia: Humanized Mouse Models, Cognition and Imaging with Live Q&A	Marco A.M. Prado, Pharm, MSc, PhD Canada Research Chair in Neurochemistry of Dementia; Scientist, Robarts Research Institute; Professor, Department of Physiology and Pharmacology and Department of Anatomy & Cell Biology, The University of Western Ontario; Deputy Editor in Chief, Journal of Neurochemistry
8-Mar	08:30 - 09:30 AM	NIH BRAIN Initiative: Artificial Neural Networks and Explainable AI models at the Service of Neuroscience Research	Panel Presentation: Liquid Neural Networks with Live Q&A	Mathias Lechner, PhD Postdoctoral Research Associate, Computer Science and Artificial Intelligence Laboratory (CSAIL), Massachusetts Institute of Technology (MIT) Ramin Hasani, PhD Principal AI and Machine Learning Scientist, Computer Science and Artificial Intelligence Laboratory (CSAIL), Massachusetts Institute of Technology (MIT)
8-Mar	09:00 - 10:00 AM	NIH BRAIN Initiative: Artificial Neural Networks and Explainable AI models at the Service of Neuroscience Research	Keynote Presentation: Towards Multi-system Neural Network Models of Brain Functions with Live Q&A	Guangyu Robert Yang, PhD Assistant Professor, Department of Brain and Cognitive Sciences, Computational Neuroscientist, Massachusetts Institute of Technology
8-Mar	10:30 - 11:30 AM	Neuroscience, Ethics, and Society: Hopes and Challenges	Keynote Presentation: How Closed Is The Loop? The Ethics of Agency in Future of Adaptive Neurostimulation with Live Q&A	Timothy E. Brown, PhD Assistant Professor, University of Washington, Department of Bioethics & Humanities

8-Mar	12:00 - 01:30 PM	NIH BRAIN Initiative: Artificial Neural Networks and Explainable AI models at the Service of Neuroscience Research	Plenary Panel: Challenges and Opportunities of Artificial Intelligence in Neuroscience and Explainability with Live Q&A	Chengxu Zhuang, PhD ICoN Postdoctoral Fellow, MIT Guillermo Cecchi, PhD Principal Research Staff and Manager, Computational Psychiatry and Neuroimaging, T.J. Watson IBM Research Laboratory Konrad Kording, PhD Moderator - Professor, The University of Pennsylvania; Co-founder, Neuromatch
8-Mar	01:30 - 02:30 PM	Progress in Mapping and Targeted Modulations of Psychiatric Disease Biomarkers	Spatial Mapping of Pain-Associated G-Protein Coupled Receptors and Biomarker Localization in Mouse Brain Using RNAscope HiPlex v2 and RNA-Protein Co-Detection Assay with Live Q&A	Sayantani Basak, PhD Applications Scientist, Advanced Cell Diagnostics, Bio-Techne
8-Mar	06:00 - 06:00 AM	New Developments in Neurodegenerative Disease Research	Accurately Modeling Mild Traumatic Brain Injury to Better Understand Function Mechanisms	Brian Christie, PhD Professor, Division of Medical Sciences, University of Victoria
8-Mar	06:00 - 06:00 AM	NIH BRAIN Initiative: Artificial Neural Networks and Explainable AI models at the Service of Neuroscience Research	Explainable AI with Applications for Brain Imaging and Drug Discovery	Jagath Rajapakse, PhD, FIEEE Professor of Computer Engineering, School of Computer Science and Engineering, Nanyang Technological University
8-Mar	06:00 - 06:00 AM	Neuroscience, Ethics, and Society: Hopes and Challenges	Health Equity in ADRD Research for the Black Community	Kacie D. Deters, PhD Assistant Professor, Department of Integrative Biology & Physiology, University of California Los Angeles
8-Mar	06:00 - 06:00 AM	NIH BRAIN Initiative: Artificial Neural Networks and Explainable AI models at the Service of Neuroscience Research	Interpretable Latent Variable Models Demonstrate Flexible Neural Control of Spinal Motor Units	Joshua I. Glaser, PhD Assistant Professor of Neurology, Assistant Professor of Computer Science (by courtesy), Northwestern University Feinberg School of Medicine
8-Mar	06:00 - 06:00 AM	NIH BRAIN Initiative: Artificial Neural Networks and Explainable AI models at the Service of Neuroscience Research	Leveraging What We Know: Knowledge Discovery and Knowledge Exploitation as Complementary Aspects of Explainable AI	Guillermo Cecchi, PhD Principal Research Staff and Manager, Computational Psychiatry and Neuroimaging, T.J. Watson IBM Research Laboratory
8-Mar	06:00 - 06:00 AM	NIH BRAIN Initiative: Artificial Neural Networks and Explainable AI models at the Service of Neuroscience Research	Neural Network Models of Visual Learning and Development	Chengxu Zhuang, PhD ICoN Postdoctoral Fellow, MIT

8-Mar	06:00 - 06:00 AM	New Developments in Neurodegenerative Disease Research	Novel Tools for Drug Discovery in Neurodegenerative Diseases	Jacob McPhail, PhD R&D Scientist, StressMarq Biosciences Inc.
8-Mar	06:00 - 06:00 AM	NIH BRAIN Initiative: Artificial Neural Networks and Explainable AI models at the Service of Neuroscience Research	Recurrent Neural Networks in Brains and Machines	Christopher Cueva, PhD Research Scientist, Department of Brain and Cognitive Sciences, MIT
8-Mar	06:00 - 06:00 AM	New Developments in Neurodegenerative Disease Research	Selective Neuronal Vulnerability in Neurodegeneration	Marija Cvetanovic, PhD Associate Professor, Department of Neuroscience, University of Minnesota, Institute for Translational Neuroscience
8-Mar	06:00 - 06:00 AM	Neuroscience, Ethics, and Society: Hopes and Challenges	The Distinction Between Curative and Assistive Technology: The Hard Case of Bidirectional Brain Computer Interfaces	Joseph A. Stramondo, PhD, MA Associate Professor, Department of Philosophy, Director, Institute for Ethics and Public Affairs (IEPA), San Diego State University
8-Mar	06:00 - 06:00 AM	New Developments in Neurodegenerative Disease Research	Tool Kit for Dopaminergic Progenitor Cell Production	Tilo Kunath, PhD Institute for Regeneration and Repair, Centre for Regenerative Medicine, The University of Edinburgh
8-Mar	06:00 - 06:00 AM	New Developments in Neurodegenerative Disease Research	Understanding the Role of Alzheimer's Disease Pathologies in Spatial Memory Dysfunction	Abid Hussaini, PhD Assistant Professor of Pathology and Cell Biology, The Taub Institute, Columbia University Irving Medical Center