

## Accepted Poster and Live Demonstration List

### Track: Emerging Neurotechnologies

1. **Title:** Minaturized Modular Coil Architecture for Magnetic Field Generation in Targeted Neuromodulation Applications  
**Presenting Author:** Jayanth Pothuganti, Loyola University Chicago
2. **Title:** Using a Low-Cost Wearable EEG to Capture Naturalistic Neural Responses during an Interview about Coping with COVID-19  
**Presenting Author:** Romy Zhang, University of British Columbia
3. **Title:** Feasibility of Photosensitive Hydrogels for Spinal Cord Injury Repair  
**Presenting Author:** Paul Juralowicz, University of British Columbia
4. **Title:** Development of a Novel Ferromagnetic Suppression Coil to Increase Focality in TMS Procedures on Small Animals  
**Presenting Author:** Thehan Atalugama, Virginia Commonwealth University
5. **Title:** AI-Enhanced VR Framework for Real-Time mTBI Assessment Using EEG, EOG, and Eye-Tracking  
**Presenting Author:** Shantanu Sarkar / Piotr Nabrzyski, University of Houston
6. **Title:** Power Optimized Neural Recording Through Machine Learning Guided Resolution Reconfiguration  
**Presenting Author:** Dhruv Vaish, University of California Berkeley

### Track: Machine Learning and Computer Paradigms for Brain Discovery

7. **Title:** Decoding Brain Activity Signatures of Creativity & Cognitive Health  
**Presenting Author:** Samir Damji, University of British Columbia
8. **Title:** Bach and Bayes: Prediction in Noisy Musical Sequences  
**Presenting Author:** Akanksha Gupta, Aix-Marseille University, France
9. **Title:** EEG Microstates Through a Probabilistic and Dynamical Systems Lens  
**Presenting Author:** Sahar Sattari, University of British Columbia
10. **Title:** The Role of Resting-State Network Functional Connectivity in TMS Outcomes  
**Presenting Author:** Todd Taylor, Virginia Commonwealth University
11. **Title:** Integrating Structural and Functional Connectivity for Dynamic fMRI Modeling Via Graph Diffusion Autoregression  
**Presenting Author:** Felix Schwock, University of Washington
12. **Title:** EEG-based Drowsiness Prognosis with Chaos-Theory Features (96.3% Accuracy)  
**Presenting Author:** Ronak Abdi, Simon Fraser University
13. **Title:** Feasibility Study of Integrating EEG Features and Attention Testing for Clinical Identification of ADHD in Children  
**Presenting Author:** Leo Ko / Shang-en Chiang, National Yang Ming Chiao Tung University
14. **Title:** Towards a Multilayer BIDS-Compatible Framework for Mobile Brain/Body Imaging in Dance and Music Studies  
**Presenting Author:** Aime J. Aguilar-Herrera, University of Houston
15. **Title:** Revealing Multi-Network Brain Dysfunction in Schizophrenia Using Voxel-Centric Encoding  
**Presenting Author:** Biozid Bostami, Georgia Institute of Technology

16. **Title:** Topological Dynamics of Brain Networks  
**Presenting Author:** Biozid Bostami, Georgia Institute of Technology
17. **Title:** Towards a Neurotutor: Comparative Analysis of Machine Learning Models for EEG-Based Reading Task Classification  
**Presenting Author:** Eduardo V. Perez-Hernandez, Instituto Nacional de Astrofísica, Óptica y Electrónica, Puebla, México
18. **Title:** EEGReXferNet: A Lightweight Gen-AI Framework for EEG Subspace Reconstruction via Cross-Subject Transfer Learning and Channel-Aware Embedding  
**Presenting Author:** Shantanu Sarkar / Piotr Nabrzyski, University of Houston

### Track: Clinical Applications and Impact

19. **Title:** Insights into Parkinson's Disease, Aging, and Brain Energetics Using Partial Least Squares Correlation Analysis  
**Presenting Author:** Connor W. J. Bevington, University of British Columbia
20. **Title:** Relationships of Cognition-related Striatal Dopamine Release and Whole-brain Blood Oxygenation in Parkinson's Disease  
**Presenting Author:** Jordan Hanania, University of British Columbia
21. **Title:** Tracking Neural State Transitions under Anesthesia Using the Complexity-Entropy Causal Plane (CECP)  
**Presenting Author:** Derek Newman, McGill University
22. **Title:** Network effects of theta-frequency deep brain stimulation in Parkinson's disease using fMRI  
**Presenting Author:** Evan Wilson, University of British Columbia
23. **Title/Live Demo:** NeuroGame: Which Neurotechnology would you pick if you had ...?  
**Presenting Author:** Aayush Khare, Pennsylvania State University
24. **Title:** Exploring Complexity in the Social Brain  
**Presenting Author:** Sarah Faber, Simon Fraser University
25. **Title:** NeuroMark 2.2: A Multi-Scale Atlas Derived from 100k+ rs-fMRI Datasets  
**Presenting Author:** Armin Iraj, TRENDS/Georgia State University
26. **Title:** Cognitive modes underlying attentional control impairments in schizophrenia  
**Presenting Author:** Ava Momeni, University of British Columbia
27. **Title:** Closed-Loop Brain-Controlled Exoskeleton System with EEG and Clinical Feedback for Stroke Rehabilitation  
**Presenting Author:** Lin Yu-Wei, National Yang Ming Chiao Tung University
28. **Title:** Flexible modeling of large-scale neural network stimulation: Extensions and applications for VERTEX  
**Presenting Author:** Anne Pierce, University of Washington
29. **Title:** The Hidden Structure of Sleep: Multidomain Characterization of Arousal Coordination  
**Presenting Author:** Ryan Takagi, University of British Columbia
30. **Title:** Mapping Neurotransmitter Influence on Frequency-Defined Neurophysiological Connectivity  
**Presenting Author:** Santiago I. Flores-Alonso, Simon Fraser University
31. **Title:** Rapid Assessment of Non-Invasive Brain Stimulation Effects on EEG Biomarkers of Parkinson's Disease for Optimized Therapeutic Selection  
**Presenting Author:** Sepideh Hajipour Sardouie, University of British Columbia
32. **Title:** How do the dynamics within brain regions change with age? A modelling approach with The Virtual Brain  
**Presenting Author:** Justin Wang, Simon Fraser University

33. **Title:** Toward a Bimanual BCI-Exoskeleton: High-Accuracy Classification of Motor Imagery in Stroke Patients  
**Presenting Author:** Ahiram Emmanuel Cortés Téllez, Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE), Puebla, México
34. **Title:** Interpretable AI for the Identification of Nociceptive Signatures in CMOS Video Imaging of Ventral Tegmental Area Neuronal Act  
**Presenting Author:** David Anderson Lloyd, University of Houston
35. **Title:** PET-fMRI REACT analysis of exercise-induced connectivity changes in Parkinson's Disease  
**Presenting Author:** Erik Reimers, University of British Columbia

**Winners of Best Posters are noted in Purple.**