



**CCNS Opening Workshop
August 17-21, 2015**

POSTERS

Muhammad Furqan Afzal
University of Cincinnati

“Information Processing and Control in an Oscillator Network Model”

Andrea Barreiro
Southern Methodist University

“Symmetries Constrain the Transition to Heterogeneous Chaos in Balanced Networks”

Sharmodeep Bhattacharyya
Oregon State University

“Sparse Graphical Model Estimation in Estimating Relationships in ECoG Array Data from Sensory Motor Cortex”

Stefano Castruccio
Newcastle University

“A Scalable Multi-resolution Model for Activation and Spatial Connectivity in fMRI Data”

Oliver Chén
Johns Hopkins Bloomberg School of Public Health

“Principal Direction of Mediation”

Anis Davoudi
University of Florida

“Functional Imaging of Emotion Processing”

Z. John Daye
University of Arizona

“Rare Variants Association Analysis in Large-Scale Sequencing Studies at the Single Locus Level”

Co-authors: X. Jessie Jeng, Wenbin Lu, Jung-Ying Tzeng

Casey Diekman

New Jersey Institute of Technology

“Discovering Functional Neuronal Connectivity from Serial Patterns in Spike Train Data”

Adam Duncan

Florida State University

“Geometric Analysis of Axonal Tree Structures”

Dennis Evangelista

University of North Carolina

“Free Flight Kinematics of Massed Chimney Swifts Entering a Chimney Roost at Dusk”

Diana Hall

Columbia University

“Novel Quantitative Methods for Characterization of Chemical Induced Functional Alteration in Developing Neuronal Cultures”

Jaroslav Harezlak

Indiana University Fairbanks School of Public Health

“Structural Regression Models for Multi-Modal Brain Imaging Data”

Jennifer Kile

Rensselaer Polytechnic Institute

“The Role of Gap Junctions between Excitatory Neurons in Synchronizing Cortical Dynamics”

Mary Kociuba

Marquette University

“Multi-Coil Separation of Parallel Encoded Complex-Valued Slices (mSPECS) with Hadamard Aliasing and Bootstrap Calibration Minimizes Spatial and Temporal Correlations for Faster Brain Observation”

Chin-Yueh Liu

National University of Kaohsiung

“The Feedforward Neuronal Network Dynamics under Heterogeneous Connectivity”

Vared Madar

“New and Very Simple Computational Approach for Simulating Realistic Huge Correlation Structures. Or a Better Approach for Generating Realistic Negative and Spatial Correlated Structures”

Francesca Matano

Carnegie Mellon University

“Improved Kinematic Models for Decoding Neural Activity”

Takeru Matsuda
University of Tokyo

“Point Process Modeling of Perceptual Switching”

Chintan Mehta
Yale University

“Improving Signal-to-noise in Inference for Genomics with Brain Imaging”

Amanda Mejia
Johns Hopkins University

“Automated Outlier Detection for fMRI”

Danielle Rager
Carnegie Mellon University

“Proprioceptive Feedback Modulates Motor Cortical Activity during Brain-Machine Interface Control”

Mark Reimers
Michigan State University

“Accurate Predictions of Behavior in a Freely-Moving Animal from Medial PFC by Dimension-Reduction and Smoothing Methods”

Horacio Rotstein
New Jersey Institute of Technology

“Inhibition-Based Theta Resonance in a Hippocampal Network: a modeling study”

Elizabeth Sweeney
Johns Hopkins Bloomberg School of Public Health

“Relating Multi-Sequence Longitudinal Lesion Intensity Profiles and Clinical Covariates”

Giuseppe Vinci
Carnegie Mellon University

“Separating Spike Count Correlation from Trial-To-Trial Firing Rate Correlation”

Xin Zhang
Florida State University

“Envelope Methods and Tensor Response Regression”

Fengqing Zhang
Drexel University

“An Integrative Segmentation Method of Multiple Sclerosis Lesions in Multimodal MRI”

Xiaopeng Zhao

University of Tennessee

“Causality Analysis of Scalp EEG for Diagnosis of Cognitive Deficits”

Pengcheng Zhou

Carnegie Mellon University

“Establishing a Statistical Link between Network Oscillations and Neural Synchrony”

Shuheng Zhou

University of Michigan

“Statistical Learning with Large, Complex and Incomplete Data”