

Institute for Research in Statistics and its Applications (IRSA)

Neuro-Statistics: the interface between Neuroscience and Statistics

Day 1: May 5, 2017

Breakfast		8.30am to 9:30am
Martin Lindquist	<i>(Short course)</i>	9am to 10am
Break		10am to 10:15am
Martin Lindquist	<i>(Short course)</i>	10:15am to 11:15am
Break		11:15am to 11:30am
Martin Lindquist	<i>(Short course)</i>	11:30am to 12:30pm
Lunch		12:30pm to 1:30pm
Martin Lindquist	<i>(Short course)</i>	1:30pm to 2:30pm
Break		2:30pm to 3:00pm
Sophia Vinogradov		3:00pm to 3:30pm
	<i>Using Data-driven Bioinformatics Approaches to Understand Puzzling Patterns in our Clinical Trial Data</i>	
Gülin Öz		3:30pm to 4pm
	<i>Applications of High Field Magnetic Resonance Spectroscopy in Neurodegenerative Disease</i>	
Christophe Lenglet		4pm to 4:30pm
	<i>Brain Microstructure Characterization using Sparse Bayesian Inference and Multi-compartment Models Estimation</i>	
Jörg Polzehl		4:30pm to 5pm
	<i>Towards In-Vivo Histology of the Brain</i>	
Apostolos Georgopoulos		5pm to 5:30pm
	<i>Time Series Analysis of Multimodal Neural Data</i>	

Day 2: May 6, 2017

Welcome by Dean Coleman and IRSA committee	8:30am to 8:50am
Break	8:50am to 9am
<u>Buehler-Martin Keynote Lecture:</u> Vince Clark <i>Neuroimaging Combined with Neurostimulation: New Methods for Verifying and Utilizing the Causal Connections Between Brain and Behavior</i>	9am to 10:10am
Coffee Break and Discussion	10:10am to 10:20am
Esther Krook-Magnuson <i>Finding Precision to Harness Diversity in Temporal Lobe Epilepsy</i>	10:20am to 10:55am
Mark Fiecas <i>Modeling Longitudinal Functional Connectivity Networks in fMRI</i>	10:55am to 11:10am
Break	11:10am to 11:20am
<u>Buehler-Martin Plenary Lecture:</u> Martin Lindquist <i>Brain Signatures and Models in Translational Neuroimaging</i>	11:20am to 12:30pm
Lunch	12:30pm to 1:30pm
<u>IRSA Distinguished Plenary Lecture:</u> David Van Essen <i>Human Cerebral Cortex: Structure, Function, Connectivity, Development, and Evolution</i>	1:30pm to 2:40pm
Coffee Break and Discussion	2:40pm to 3pm
Theoden Netoff <i>Optimizing Deep Brain Stimulation with Noisy and Non-Stationary Responses</i>	3pm to 3:25pm
David Darrow <i>Statistical Challenges in the Neuromodulation Parameter Space</i>	3:25pm to 3:50pm
Nathaniel Helwig <i>Modeling Longitudinal Change of Brain Signals in Twins</i>	3:50pm to 4:15pm
Monica Luciana <i>Is Adolescent Brain Development Impacted by Substance Use? Insights to be Gained from the Adolescent Brain and Cognitive Development (ABCD) Project</i>	4:15pm to 4:40pm
Poster Session	4:40pm to 5:30pm
Dinner	5.30pm to 7:30pm