



10th Annual AAIC Imaging Retreat
Virtual/Hybrid at AU, UA, UAB, USA, & with
Others
FRIDAY, July 30, 2021

10:00 AM Introductions and Announcements
Tom Denney, PhD – AU and Adrienne Lahti, MD – UAB

10:10 AM **Computational Neuroscience**
Moderator: Firat Soylu PhD – UA

10:10 **Kristina Visscher, PhD – UAB**

“Opportunities for collaborative computational neuroscience”

10:30 **Firat Soylu PhD – UA**

“Advantages of and challenges with using high-performance computing for analysis of neuroimaging data”

10:50 **Yu Gan, PhD – UA**

“Convolutional neural network architecture for MRI denoising”

11:10 AM **7T MRI**
Moderator: Nina Kraguljac, MD – UAB

11:10 **Tom Denney, PhD – AU**

“Overview of 7T MRI and Planned 7T Upgrade”

11:40 **Adil Bashir, PhD – AU**

“Brain high-energy phosphates and creatine kinase forward rate constant in human visual cortex”

12:10 PM **Lunch & Poster Session I: Jack Shelley-Tremblay Moderator:** Line up of Presenters follows agenda
Please pick up your reserved box lunch at designated spot **12:10 PM** and **12:30 PM**

1:25 PM **Social Cognition 1**
Moderator: Sara Blaine, PhD – AU

1:25 **Rajesh Kana, PhD – UA**

“Thinking about Others: Autism and the Social Brain”

1:45 **Jeff Katz, PhD – AU**

“Dog, Human, and Robot Attachment: Past, Present and Future”

2:05 **Hyemin Han, PhD – UA**

“Exploring the neural correlates of moral functioning with large-scale meta-analysis and synthesis of neuroimaging data”

2:25 PM **15 minute Break**

2:40 PM **Social Cognition 2**
Moderator: Sara Blaine, PhD – AU

2:40 **Junghee Lee, PhD – UAB**

“Toward a neural basis for social motivation in psychotic disorders”

3:00 **Samantha Fede, PhD – AU**

“Neural mechanisms of sociomoral cognition: Impacts of chronic substance use”

3:20 PM	Poster Session II: Moderator: Jack Shelley-Tremblay, PhD – USA, List of Presenters Follows Agenda
3:50 PM	Lightning Presentations (Faculty & Staff lightening info presentations for collaborative users) Moderator: Jack Shelley-Tremblay, PhD – USA, List of Presenters Follows Agenda
4:25 PM	Poster Winner Announcements and Closing Remarks Tom Denney, PhD – AU and Adrienne Lahti, MD – UAB
4:30 PM	Drive Home safely!
5:00 PM	Zoom Social: Please Attend! A great time to ask questions about posters and lightning talks.
6:00 PM	Adjourn and Thank You!

List of Poster Session I – 3 slides, 5 minutes each

Time	Post er #	First	Last	Rank	Uni v	Title
12:15 PM	1	<u>Smitha Karavallil</u>	<u>Achuthan</u>	Postdoc	UA	Amplitude of Low Frequency Fluctuations during resting state MRI in Autism Spectrum Disorder
12:20 PM	2	Seyedeh Nasim	Adnani	Grad Student	AU	The Feasibility of the Voxel Spread Function Technique for Background Field Inhomogeneity Correction at 7T
12:25 PM	3	Lisa	Antoine	Postdoc	UAB	Poster Title: White matter abnormalities antipsychotic medication naive first episode psychosis patients with and without deficit syndrome features
12:30 PM	4	Z Winters	Derevjanik	Grad Student	UA	Interlayer Cortical Connectivity in ASD: Investigational Potential with 7T
12:35 PM	5	Sage	Garriss	Grad Student	USA	A Novel Method for Dual Measurements of Dynamic Calcium and Barrier Permeability
12:40 PM	6	Devon	Grey	Grad Student	UAB	Discrimination, neural reactivity to stress, and psychological distress
12:45 PM	7	Justin	Hall	Postdoc	AU	Deep Brain Stimulation - An Innovative Therapy Model for Parkinson's Disease
12:50 PM	8	Chloe	Jones	Grad Student	UAB	Assessing Neuroinflammation in Veterans with Gulf War Illness: A Pilot Study Using Whole-Brain Magnetic Resonance Spectroscopy
12:55 PM	9	Victoria	King	Grad Student	UAB	Resting State Functional Connectivity of the Frontoparietal Network in Deficit Syndrome
1:00 PM	10	Sultan	Mahmud	Grad Student	AU	Resting State fMRI in Domestic Cats with Microcephaly and Polymicrogyria.
1:05 PM	11	Omar	Maximo	Scientist I	UAB	Structural and functional default mode network connectivity and antipsychotic treatment response in medication-naive first episode psychosis patients

List of Poster Session II – 3 slides, 5 minutes each

Time	Poster #	First	Last	Rank	Univ	Title
3:20 PM	12	Eric	Nelson	Postdoc	UAB	Longitudinal Changes in Hippocampal Subfield Volumes in Medication Naïve First Episode Psychosis Patients
3:25 PM	13	Emily	Ruff	Grad Student	USA	The Effect of Psychopathic Traits on Event-related Desynchronization in College Students
3:30 PM	14	Genelle	Samson	Grad Student	UAB	A Longitudinal Assessment of Anterior Cingulate Cortex GABA in Antipsychotic Medication-naïve First Episode Psychosis Patients
3:35 PM	15	Sara	Sims	Grad Student	UAB	System and Network Segregation relates to Cognition in the Healthy Oldest-Old
3:40 PM	16	Anudeep	Bolaram	Grad Student	UAB	Predictability and controllability alter the neural reactivity to threat.
3:45 PM	17	Yun-Ruei (Corinne)	Ku	Grad Student	UA	Do neural representations of rhyming judgement predict gains in children’s word reading skills? A re-analysis of an open dataset

List of Lightning Talks – 3 slides, 5 minutes each

3:50 PM	Blake	Joyce	Data Sc Mgr	UAB	The New Data Science Sherpa: scientific enablement and the journey to the compute
3:55 PM	Ian	McDonough	Assoc Prof	UA	Structural Complexity is Negatively Associated with Brain Activity: A Novel Multimodal Test of Compensation Theories of Aging
4:00 PM	Laura	Morett	Asst. Prof	UA	Mechanisms of the Impact of Gesture Observation on Learning
4:05 PM	Meredith	Reid	Asst. Prof	AU	7T MRS and fMRS in psychiatric disorders
4:10 PM	Kristina	Visscher	Assoc Prof	UAB	Plasticity of brain networks – How should we study them? How do we assess reliability?
4:15 PM	Jonathan	McConathy	Assoc Prof	UAB	Multimodality molecular imaging in neurodegenerative disease
4:20 PM	Cassandra	Newsome	Assoc Prof	UAB	TBD-

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