



The SDSU Center for Clinical and Cognitive Neuroscience
presents its Student Seminar Series, featuring:



Christopher Fong

Brain Development Imaging Lab
Department of Psychology
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Resting State Network Differentiation in Children and Adolescents with ASD

Monday, November 7th

2:00 – 3:00 pm

6363 Alvarado Ct.

Suite 250, Conference Room

Autism spectrum disorder (ASD) is a neurodevelopmental condition estimated to affect 1 in 45 children in the US. By consensus, ASD is a disorder involving distributed brain networks, although the precise patterns of the network abnormalities in ASD are still under debate. Given recent reports of atypical network segregation in ASD, we seek to examine whether functional connectivity outside neurotypical brain networks is greater (i.e., networks are less differentiated) in children and adolescents with ASD, compared to typically developing (TD) peers. Overconnectivity with regions outside neurotypical networks in children with ASD may reflect impaired functional network differentiation of the brain systems involved in reward processing (SN), executive control (CEN) and visual processing (VN). The observed links with increased behavioral symptoms suggest that ASD symptomatology may be tied to excessive connections between brain networks.

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