

## COLLOQUIUM SERIES

### Information Processing in Autism Spectrum Disorders: New Insights from Mathematical Modeling Techniques

**Date: December 11 , 2009**  
**Location: Somerville House, Room 3345**  
**Time: 3:00 - 4:00 p.m.**

*(Please join us after the talk for light refreshments.)*



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#### **Abstract:**

Many studies have reported that individuals with autism spectrum disorders (ASD) demonstrate atypical performance on perceptual and cognitive tasks. However, little is known about the mechanisms that underlie these differences. Mathematical modeling approaches offer methods for addressing this limitation as they can provide information about psychological and cognitive processes that are not otherwise apparent. In this talk, I will discuss my research that examines information processing in high-functioning people with ASD and their typically developing peers. Findings to date provide novel ways of conceptualizing atypical cognitive and perceptual abilities in ASD, suggest potentially meaningful links to clinical features, and raise questions regarding future interventions.

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