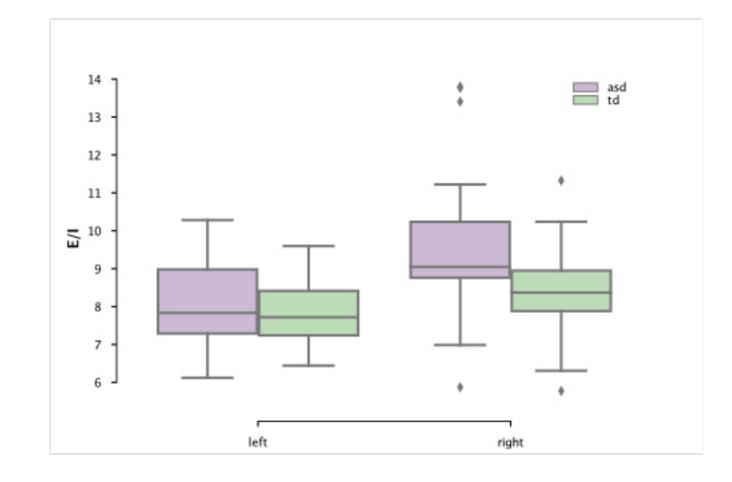


Multi-modal imaging of semantic cognition in high-functioning adolescents with autism. Here we are using electrophysiological MEG and magnetic resonance spectroscopy to more comprehensively characterize the biophysical model of ASD in humans. Note the marked aberrant excitability to non-words in the right-hemisphere in the MEG (bottom-right panel). This hyper-excitability is linked to a right lateralized imbalance in excitatory-inhibitory neurotransmitter homeostasis in the same cortical regions.



Superior temporal gyrus volumetric MRIS vv