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| Description of Research | Dr. Rojas's research is concerned with understanding brain development in children with pervasive developmental disorders like autism and fragile X syndrome, as well as psychotic illnesses such as schizophrenia. Modern non-invasive imaging tools such as magnetoencephalography (MEG), electroencephalography (EEG), and functional magnetic resonance imaging (fMRI) are combined with traditional behavioral techniques (psychophysics, neuropsychology) to study cortical network development and its relationship to behavioral development. Studies to date have focused on the identification of markers of neurodevelopmental abnormalities in adults and young children, with the ultimate aim of conducting functional imaging on the at-risk fetus to improve our ability to predict long-term outcomes and develop early interventions. |
| Methodology | Neuroimaging |
| Clinical and special developmental populations | Adolescents; Autism; Child; Infant; Schizophrenia |
| Contact email | Don.Rojas@colostate.edu |
| Mentor since | 7/1/2000 |