



Dr. **Joshua Ewen** is a pediatric neurologist, developmentalist and electroencephalographer. He is director of the [Clinical Neurophysiology Clinic and Laboratory](#) at the Kennedy Krieger Institute and an associate professor in both the Department of Neurology and the Department of Psychological and Brain Sciences at The Johns Hopkins University

School of Medicine.

Dr. Ewen attended Brown University and Tulane University School of Medicine, from which he graduated in 2000. He received training in general pediatrics at Cincinnati Children's Hospital Medical Center and then was one of the first graduates of the Kennedy Krieger/Johns Hopkins program in neurodevelopmental disabilities. He subsequently took a year of training in specialized training in clinical neurophysiology/epilepsy (Johns Hopkins). He is currently a neurologist at Kennedy Krieger, where he sees patients with epilepsy and co-morbid developmental disabilities. He also interprets clinical EEGs at Kennedy Krieger's [Clinical Neurophysiology Clinic and Laboratory](#). A large portion of his effort is focused on research into the cognitive alterations in developmental disabilities.

Dr. Ewen's research involves the use of behavioral and EEG-based techniques to study developmental disabilities and basic questions within psychology and neuroscience. His current primary work focuses on the borderlands between cognition and motor control in autism, but he also has ongoing research in ADHD. Using approaches from experimental cognitive psychology, his laboratory's general approach is to identify specific

cognitive processes that are involved in developmental disabilities, and then to explore the physiological underpinnings of those alterations using EEG.

As a seizure and clinical EEG specialist, Dr. Ewen also researches epilepsy and EEG abnormalities in a range of developmental disabilities, including autism and Rett syndrome.

The Research Neurophysiology Laboratory at the Kennedy Krieger Institute also collaborates with other investigators throughout the greater Johns Hopkins campus who want to employ EEG methods, including event-related potentials (ERPs) in their research. As one example, extensive collaborations with the Johns Hopkins Department of Psychological and Brain Sciences have yielded new insights on how the brain uses attention to focus on certain features of an object, such as color.