

Research Units of Intelligent Technology for Health and Well-being  
& Nonlinear Physics and Mathematical Modeling

## Mapping the Brain: Advances in Neuroimaging Research at Cook Children's

### Prof. Christos Papadelis, Ph.D.

Assistant Vice President of Neuroscience Research,  
*Cook Children's Health Care System*

Professor of Research in Bioengineering  
*University of Texas at Arlington*

Professor of Pediatrics  
*Burnett School of Medicine at Texas Christian University*



#### Biography:

Dr. Papadelis' research covers a broad range of studies in neuroscience, clinical neurophysiology, and biomedical engineering. Dr. Papadelis has >100 peer-reviewed research investigation articles, two patents, and numerous articles in conference proceedings. Some of his papers are published in top-tier scientific journals such as Brain, Nature Portfolio Digital Health, and Annals of Neurology. His research has been cited >5,500. He has received funding of more than \$7M from the National Institute of Neurological Disorders and Stroke, the National Institute of Children Health and Development, the American Epilepsy Society, the European Union, the Harvard Medical School, the Cook Children's Health Foundation, the pharmaceutical industry, and private donors. His research focuses on developing an epilepsy biomarker and identifying brain changes in children with cerebral palsy.

#### Abstract:

Cook Children's is the largest pediatric health care system in North Texas. Its Neuroscience Research program was established by Dr. Papadelis in 2019. Since then, the program has demonstrated significant levels of scientific productivity in several projects regarding a variety of pediatric neurological disorders, such as epilepsy, cerebral palsy, and autism spectrum disorders. In this talk, Dr. Papadelis will present the latest developments of his team on the use of advanced neuroimaging for understanding the pathophysiological mechanisms of these disorders and developing novel treatments.

**13 Giugno 2025 - ore 11:00-12:00**  
**Sala Conferenze PRABB - PRABB**

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