14ᵗʰ World Pediatrics & Neonatal Healthcare Conference

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Pediatrics & Neonatal Healthcare 2017

Natasha Lepore

Children's Hospital Los Angeles, USA

Understanding the brain anatomy of premature and healthy newborns using MRI

I will cover some of the MRI analysis tools that we designed to understand the brain anatomy of newborns, such as cortical and subcortical morphometry and white matter tract analyses in these populations. I will also give some results on our analyses of early development of subcortical structures and networks in preterm and term born neonates and infants.

Biography

Natasha Lepore involves in the development of numerical tools for the analysis of brain magnetic resonance imaging data. She also works on applying these methods to different clinical and neuroscience applications. She is currently working as an Assistant Professor in Radiology at the University of Southern California and at Children's Hospital Los Angeles. She has Graduated with a BSc in Physics and Mathematics from the University of Montreal and then obtained a Masters in Applied Mathematics from Cambridge University. She has completed her PhD in theoretical physics (Harvard University), later she switched to neuroimaging and became a Postdoctoral fellow at the Laboratory of Neuro Imaging.

nlepore@chla.usc.edu

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