

# Brain Mapping Center SEMINAR SERIES

Sponsored by the UCLA Brain Mapping Center Faculty

The focus of these talks is on advancing the use of brain mapping methods in neuroscience with an emphasis on contemporary issues of neuroplasticity, neurodevelopment, and biomarker development in neuropsychiatric disease.

Hosted By: Shantanu Joshi, PhD, Neurology, UCLA

## “Studying human cortical development before birth using MRI”



### Colin Studholme, PhD

Professor of Pediatrics and Bioengineering  
Adjunct Professor of Radiology of Washington



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Mapping early human brain growth during pregnancy is, in many ways, the last great challenge for in-vivo neuroimaging. Since 2004, a number of research groups have been developing techniques to allow motion corrected MRI of the un-sedated human fetal brain. Continued improvements through computationally assisted MRI have increased spatial resolution and geometric quality to allow finer scale mapping of the normally developing brain at earlier gestational ages. In this talk we will review some of the specialized techniques developed to specifically image and analyze the developing cortical plate using different MRI contrasts. We will also cover some of the results of studies applying these techniques to examine normal and abnormal brain development before birth.

**April 6, 2023 11:00am - 12:00pm PDT**  
**Zoom and Neuroscience Research Building (NRB 132)**  
**Charles E. Young Dr. South**

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