



June 2019 Volume 4 Issue 2

Summer Internship Program

The Center for the Developing Brain official Summer Internship program started in June 2017. While we had always had interns all year long, we have instituted an Official Internship program that would last for 6-8 weeks.

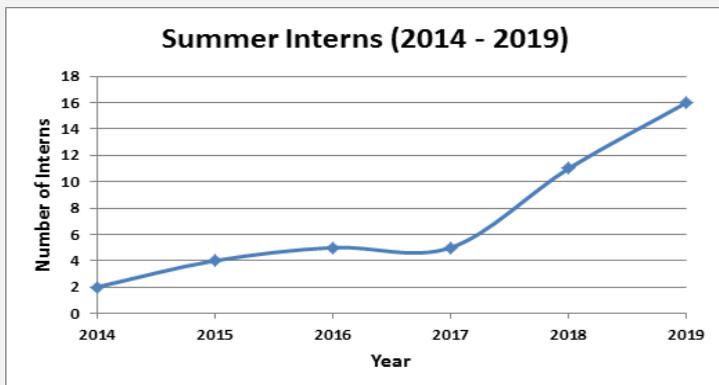
What does the program offer?

The Summer Internship Program at the Center of Developing Brain is a structured opportunity for learning, growing, and contributing in a professional setting. This is a highly competitive program and application does not guarantee admittance. The goals of the program are:

- To apply, evaluate, test and integrate academic knowledge and theoretical concepts in a work setting.
- To develop and expand intern's knowledge about themselves and their abilities, goals and career interests.

What can an Intern expect from our Internship Program?

Interns will learn about MRI biomarkers of prenatal origins of long term neurodevelopmental disabilities. They will develop new skills and make new connections that will provide professional references in the future. During their tenure here in our Center, each intern will be paired up with a research scientist "Mentor" and work on a specific project. The projects involve the application of advanced MRI tools to study fetal and neonatal brain development, and placental function in high-risk populations.



At the end of the internship, with the help of their mentors, each intern is expected to present his/her project to the entire team.

Success stories:

Interns applying to our program are often seeking a Medical Degree and to build their academic portfolio. Our internship program has attracted students from around the world. Most recently we had interns from Columbia, Germany and Australia.

Here are a few examples of successful stories:

"I was able to gain experience in the imaging field and build on my coding skills. I feel this internship has prepared me for future jobs"

"I really enjoyed working because everyone is very kind and accommodating. The most interesting time I experienced was the ability to watch the MRI scans. And the lab meetings were always fun to attend".

"One huge benefit was being able to understand and become actively involved in the process of clinical research was incredibly beneficial."

Additionally, the opportunity to work alongside researchers and clinical staff was amazing. Not many undergrads have ever seen an MRI or premature infant, and I am thankful for the opportunity."



From Left to Right, Geraldine Pluiose, Sr. Program Manager and Anushree Kapse, Training Specialist

Research Publications

Placental Pathology and Neuroimaging Correlates in Neonates with Congenital Heart Disease

Schlatterer S, Murnick J, Jacobs M, White L, Donofrio MT, **Limperopoulos C**. Placental Pathology and Neuroimaging Correlates in Neonates with Congenital Heart Disease. *Sci Rep*. 2019 Mar 11;9(1):4137. doi: 10.1038/s41598-019-40894-y.

Altered functional brain network integration, segregation and modularity in very preterm infants at term equivalent age.

Bouyssi-Kobar M, De Asis-Cruz J, Murnick J, Chang T, **Limperopoulos C**. Altered functional brain network integration, segregation and modularity in very preterm infants at term equivalent age. *Journal of Pediatrics* (Accepted)

Welcome New Team Members!



Axel Largent
Research Post-doc Fellow



Temidayo Adedeji-Fajobi
Program Coordinator

Welcome Summer Interns



Emily Miller, Donna Dhadkoo, Lily Carroll, Emma Sommer, Smriti Gupta, Sophia Czopek, Xiaokang Bai, Chris José, Marissa Steinberg and Prarek Thakker

Conversations with Dr. Newman



Children's National had selected a total of 10 employees including Geraldine Pluviose, Sr. Program Manager across our organization representing all disciplines and levels to participate in a Conversation with Dr. Newman, President and CEO directly to share with him their ideas, thoughts, questions and concerns.

Happy Nurses' Week!



7 years of service | Geraldine Pluviose
5 years of service | Josephine Cruz, Ben Scalise & Wesley Zun

Featured Press

- [Mother's milk is best for boosting brains of babies](#)
- [Brain development in micro-prem infants-two studies](#)
- [Breastfeeding boots key metabolites for brain growth](#)
- [Breast milk promotes brain growth in premature babies](#)
- [Breastfeeding boosts metabolites important for brain growth](#)
- [Breast milk has biggest benefit for preemies' brains](#)
- [Breastfeeding boosts metabolites important for brain growth](#)
- [Breastfeeding boosts metabolites important for brain growth](#)
- [Early lipids boost brain growth for vulnerable micro-preemies](#)

Research Presentations

Limperopoulos C. Harnessing the power of advanced MRI to study fetal origins of neuropsychiatric disorders. Annual Maryland Neuroimaging Retreat (MNR) - Functional Neuroimaging of Brain Development, Disorders & Disease. University of Maryland Baltimore, April 2019

Limperopoulos C. Harnessing the power of advanced MRI to study fetal origins of neuropsychiatric disorders. Children's Research Institute Board-Special Lecture - Children's National Health System. Washington DC June 2019

Lu YC. Abnormal Brain Cortical Morphology in CHD Fetuses Evaluated with Longitudinal MR Brain Images. Biomedical Engineering Society (BMES) Annual Meeting Oct 2019.

Kuhn V. Determinants of midterm Neurological Outcome of Neonates with HLHS or TGA following Congenital Heart Surgery. EACTS 2019 (Submitted)

Upcoming Events

[Writing Institute - Jun. 2019. Children's National Health System, Washington, DC](#)

