

August 4, 2023

To the ASPNR leadership,

I am incredible excited to submit my application for a potential position on the ASPNR Board of Directors. I am a pediatric neuroradiologist and the Division Chief of Pediatric Radiology at the University of North Carolina at Chapel Hill. My passion for pediatric neuroradiology and fetal neuroimaging started over 13 years ago when I did my pediatric neuroradiology fellowship at Cincinnati Children's Hospital. I have joined the ASPNR since the first national meeting and have enjoyed seeing the society rapidly grow over the past years. I have proudly served and continue to serve on multiple different societal committees. This includes the Interesting Case Committee, the News and Updates Committee, the Fundraising Committee, the Industry Relations Committee, and the Social Media Committee. I absolutely love spreading the word about our society over social media as well as during conversations with colleagues and the industry, as part of my committee work. I am passionate about all the incredible teaching and research opportunities that the society promotes, not only here at the USA but also worldwide. From my committee work, I am humbled to learn from giants in our field. I would love to continue to learn and work for our society as a Director.

I am not currently a member of any other society board of directors and would be able to give my undivided dedication and commitment to the ASPNR.

Thank you so much for considering my application.

Best regards,



Carolina V. Guimaraes MD  
Professor of Radiology  
Division Chief, Pediatric Imaging  
University of North Carolina at Chapel Hill

**Carolina Valduga de Alencastro Guimaraes MD**  
Professor of Radiology  
Division Chief, Pediatric Radiology  
University of North Carolina at Chapel Hill  
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Cell phone: 713-201-0151

**Revised: 5/24/2023**

**Education:**

01/2008 – 02/ 2009      **Pediatric Neuroradiology Fellow**  
Department of Radiology  
**Cincinnati Children’s Hospital Medical Center**  
Cincinnati, OH, USA

01/ 2007 – 01/2008      **Pediatric Radiology Fellow**  
Department of Radiology  
**Cincinnati Children’s Hospital Medical Center**  
Cincinnati, OH, USA

06/2006 – 12/ 2006      **Pediatric Radiology Research Fellow**  
Department of Radiology  
**Cincinnati Children’s Medical Center**  
Cincinnati, OH, USA

10/2005- 11/ 2005      **Elective Rotation**  
Musculoskeletal Imaging  
**Beth Israel / Deaconess Medical Center**  
Boston, Mass

02/2003 - 12/ 2005      **Radiology Residency**  
Department of Radiology  
**Hospital Mae de Deus**  
Porto Alegre, Rio Grande do Sul, Brazil

02/1997 - 12/ 2002      **Combined University / Medical School (6 year program):**  
**Fundação Universidade de Caxias do Sul**  
Caxias do Sul, Rio Grande do Sul, Brazil

**U.S. Medical Licensure:**      ECFMG # 0-696-277-3  
09/2007      USMLE Step 3  
09/2006      USMLE Step 1  
04/2006      USMLE Step 2 CK  
05/2006      USMLE Step 2 CS

**Board Certification:**

03/2018      Pediatric Radiology Subspecialty Certification  
07/2011      Diagnostic Radiology - American Board of Radiology

**EMPLOYMENT HISTORY/ ACADEMIC APPOINTMENTS:**

- 01/2022 – present      University of North Carolina Children’s Hospital  
Professor of Radiology  
Division chief, Pediatric Radiology  
Chapel Hill, NC, USA
- 04/2020 – 12/2021      Lucile Packard Children’s Hospital – Department of Radiology  
**Clinical Associate Professor of Radiology**  
**Stanford University, School of Medicine**  
Stanford, CA, USA
- 04/2015 – 12/2017      Texas Children’s Hospital – Department of Radiology  
**Assistant Professor of Radiology**  
**Baylor College of Medicine**  
Houston, TX, USA
- 01/2012 – 01/2015      Nemours Children’s Hospital – Department of Radiology  
05/2012 – 02/2015      **Assistant Professor of Radiology**  
**University of Central Florida College of Medicine**  
07/2012 – 02/2015      **Clinical Assistant Professor of Radiology**  
**Florida State University College of Medicine**  
Orlando - FL, USA
- 02/2009 – 06/2011      Cincinnati Children’s Hospital Medical Center – Department of Radiology  
**Clinical Instructor of Radiology**  
**University of Cincinnati College of Medicine**  
Cincinnati. OH, USA
- State Licensure:**      North Carolina (# 307744) - active  
California (C157896) - active  
Texas ( # R1380) - active  
Ohio (# 35.092831) – not active  
Kentucky (# 42893) – not active  
Delaware (# C1-0009950) – not active  
Florida (# ME 110859) – active

## HONORS AND AWARDS:

- 2020            **2020 Anne G. Osborn ASNR International Outreach Professor**
- 2016            **IFMSS Young Investigator Travel Award**  
*Aqueduct Stenosis: Which fetal MRI findings accurately predict a postnatal diagnosis?*  
Henault K., **Guimaraes CV**, Meholin-ray A, Paldino- *IFMSS*, Botswana
- 2016            **Best Paper Presentation**  
*Prediction of need for postnatal treatment of Hydrocephalus based on fetal MRI and ultrasound brain assessment?* Magda Sanz, Mayel Yeez, Alexander Zarutskie, Nicola Park, Lauren Mack, Ani Shetty, **Carolina Guimaraes**, Haleh Sangi, Wesley Lee, Michael Belfort, William Whitehead - *26 World Congress on Ultrasound in Obstetrics and Gynecology*, Rome
- 2014            **Certificate of Merit award**  
*The "DWIBSlight" Saga: Breaking Dawn - Shedding Light on DWIBS Imaging in Pediatric Patients.* Epelman M, **Guimaraes C**, Dinan D, Johnson C, Donnelly L.  
Radiological Society of North America, Chicago
- 2012            **Magna Cum Laude**  
*Easily Missed Sonographic Findings in the Diagnosis of Hypoxic-Ischemic Injuries.*  
**Carolina Guimaraes**; Alan Daneman; Susan I. Blaser; Monica Epelman.  
Radiological Society of North America, Chicago
- 2011            **Caffey Award Best Case Report Exhibit - IPR 2011**  
*Easily Missed Sonographic MR Imaging features of Fetal Mediastinal and Intrapericardial Teratoma.* Eva I Rubio, MD; Maria A Calvo-Garcia MD; **Carolina V.A Guimaraes MD**; Constance Bitters; Beth Kline-Fath, MD
- 2010            **Magna Cum Laude**  
*Trainee Misinterpretations on Pediatric Neuroimaging Studies: Classification, Imaging Analysis, and Outcome Assessment.* James Leach, **Carolina Guimaraes**, Blaise Jones.  
American Society of Neuroradiology (ASNR), Boston, May 2010
- 2003            **Outstanding Resident Presentation**  
Clube Hugolino Andrade, Sociedade Gaucha de Radiologia  
**Carolina Guimaraes** - Porto Alegre, Rio Grande do Sul, Brazil, March 2003
- 2002            **2<sup>nd</sup> Place – Best Poster**  
*Focal Fatty Infiltration of the Liver*  
Dellamea LT, Giovanardi R, **Guimaraes CVA**, Paganella VC, Pessoa  
Jornada Gaucha de Radiologia, Gramado, Rio Grande do Sul, Brazil, August 2002

## BIBLIOGRAPHY

### Book Chapters:

1. **Guimaraes CV.** Neuroradiology. In: " Pediatric Radiology: The Fundamentals" Donnelly LF, ed. 10/2020
2. **Guimaraes CV.** Neuroradiology. In: " Pediatric Radiology: The Fundamentals" Donnelly LF, ed. 11/ 2016

### Book Chapters in press:

1. **Carolina V. Guimaraes**, Alexis Davis, Hisham M. Dahmouh. Fetal Ventriculomegaly. In: Evidence-Based Imaging in Pediatrics" ed. 2022

### Peer Review Publications / Refereed Articles:

1. Bischoff A, Hayes K, **Guimaraes C**, Merrit A, Wickham M, Schneider L, Martin H, Ketzer J, Rodriguez V, Pena A, De La Torre L. *Standardization of radiograph readings during bowel management week.* *Pediatr Surh Int.* 2023 Jul 20;39(1):236
2. Selima Siala, Dean Homen, Benjamin Smith, **Carolina V. Guimaraes** – *Imaging of the Septum Pellucidum: Normal, Variants and Pathology.* *Br J Radiology.* 2023. May 24:20221058
3. Expert Panel on Pediatric Imaging: Rupa Radhakrishnan, MD, Lindsey A. G. Shea, MD, MS, Sumit Pruthi, MD, MBBS, Victoria M. Silvera, MD, Thangamadhan Bosemani, MBBS, Nilesh K. Desai, MD, Donald L. Gilbert, MD, MS, Orit A. Glenn, MD, **Carolina V. Guimaraes, MD**, Mai-Lan Ho, MD , H. F. Samuel Lam, MD, MPH, Mohit Maheshwari, MD, David M. Mirsky, MD, Helen R. Nadel, MD, Sonia Partap, MD, MS, Gary R. Schooler, MD, Unni K. Udayasankar, MD, Matthew T. Whitehead, MD, Jason N. Wright, MD, Cynthia K. Rigsby, MD - *ACR Appropriateness Criteria -Child Ataxia – JACR, vol 19, issue 11, S240-S255, Nov 2022*
4. Gabriel Altit, Sonia L. Bonifacio, **Carolina V. Guimaraes**, Ganesh Sivakumar , Beth Yan , Valerie Chock , Krisa Van Meurs. *Shazia Bhombal – Altered Biventricular Function in Neonatal Hypoxic-ischemic encephalopathy: a case-control echocardiograph study– Cardiology in the Young- Sept 2022*
5. **Carolina V. Guimaraes**, Hisham Dahmouh. *Fetal Brain Anatomy – Neuroimaging Clinics*, 2022 Aug
6. Lane F. Donnelly, Robert Grzeszczuk, **Carolina V. Guimaraes.** *Use of Natural Language Processing (NLP) in Evaluation of Radiology Reports: An Update on Applications and Technology Advances – Seminars in US, CT and MR – Vol 43, issue 2 April 2022 pages 176-181*
7. C. Costales, MK. Sahoo, **CV. Guimaraes**, D. Born, MD, BA. Pinsky. *Fatal Vaccine-associated Measles Encephalitis in an Immunocompromised Child – Emerg Infect Dis 2022 Apr;28 (4) 906-908*
8. Elisabeth Yan, BS, Valerie Chock, MD, FAAP, Sonia Lomeli Bonifacio, MD, FAAP, Alexander Dahlen, PhD, **Carolina V. Guimaraes**, MD, Gabriel Altit, MDCM, MSc, FAAP, FRCPC, Shazia Bhombal, MD, FAAP, Krisa Van Meurs, MD, FAAP - *Multi-Organ Dysfunction is Associated with Adverse Outcome in Infants with Hypoxic Ischemic Encephalopathy.* *J Perinatol* 2022
9. Liyue Shen, Jimmy Zheng, Edward H. Lee, Michelle Han, Katie Shpanskaya, Emily McKenna, Dinko Plasto, Lily Kim, Mahesh Atluri, **Carolina V. Guimaraes**, Corie Mitchell, Lillian M. Lai, Jane Chueh, Safwan Halabi, Quin Lu, John

Pauly, Lei Xing, Beth M. Kline-Fath, Kristen W. Yeom. *Fetal Brain Age Prediction Using Attention-Guided Deep Learning - Sci Rep 12, 1408 (2022)*

10. R. Corroenne, A. Zarutskie, **C. Guimaraes**, M. Yepez, P. Torres, A.N. Shetty, W. Lee, J. Espinoza, A. Shamshirsaz, A. Nassr, M.A. Belfort, M. Sanz-Cortes. *Is ventriculomegaly and hindbrain herniation seen before and after prenatal neural tube defect repair associated with a worse functional level than anatomical level at birth - Prenatal Diagnosis – 2021 Jul;41(8):972-982*
11. Gabriel Altit, Sonia L. Bonifacio, **Carolina V. Guimaraes**, Ganesh Sivakumar , Beth Yan , Valerie Chock , Krisa Van Meurs. *Cardiac dysfunction in hypoxic ischemic encephalopathy is associated with increased mortality and brain injury by MRI – Journal of Neonatology 2021*
12. Susan L. Kinnebrew, Carrie G. Dove, Carrie M. Midwin, Teresa M. Olson, **Carolina V. A. Guimaraes**. *The Role of Child Life in Pediatric Radiology. Pediatric Radiology (2020) 50:1509–1513*
13. Rebecca Levy, **Carolina V. Guimaraes**, Sonia Partap. *Acute Hyperextension "Surfer's" Myelopathy in a Gymnast: Bending over Backwards for Diagnosis . Neurology April 14, 2020; 94*
14. Tabitha Cooney, Kenneth J. Cohen, **Carolina V. Guimaraes**, Girish Dhall, James Leach, Maura Massimino, Alessandra Erbetta, Luisa Chiapparini, Fatema Malbari, Kim Kramer, Ian F. Pollack, Patricia Baxter, Suzanne Laughlin, Zoltan Patay, Tina Young Poussaint, Katherine E. Warren. *Response assessment in diffuse intrinsic pontine glioma (DIPG): recommendations from the Response Assessment in Pediatric Neuro-Oncology committee. 2020 Lancet Oncology – Jun;21(6):330-336.*
15. **Carolina V. Guimaraes**, Hisham M. Dahmouh. *Imaging Phenotype Correlation with Molecular and Molecular Pathway Defects in Malformations of Cortical Development - Pediatric Radiology – 2020 Dec;50(13):1974-1987*
16. Cortes MS, Torres P, Yepez M, **Guimaraes C** , Zarutskie A, Shetty A, Hsiao A, Pyarali, Davila I, Espinosa J, Shamshirsaz AA, Nassr A, Whitehead W, Lee W, Belfort MA. *Comparison of brain microstructure after prenatal spina bifida repair by either laparotomy assisted fetoscopic or open approach. Ultrasound Obstet Gynecol. 2019 Jun 20. doi: 10.1002/uog.20373*
17. Zarutskie A, **Guimaraes C**, Yepez M, Torres P, Shetty A, Sangi-Haghpeykar H, Lee W, Espinoza J, Shamshirsaz AA, Nassr A, Belfort MA, Whitehead WE, Sanz Cortes M. *Prenatal brain imaging for predicting need for postnatal hydrocephalus treatment in fetuses that had neural tube defect repair in utero. Ultrasound Obstet Gynecol. 2019 Mar;53(3):324-334. doi: 10.1002/uog.20212*
18. Sanz Cortes M, Davila I, Torres P, Yepez M, Lee W, **Guimaraes CV**, Sangi-Haghpeykar H, Whitehead WE, Castillo J, Nassr AA, Espinoza J, Shamshirsaz AA, Belfort MA. *Does Fetoscopic or Open Repair for Spina Bifida Affect Fetal and Postnatal Growth? Ultrasound Obstet Gynecol. 2019 Mar;53(3):314-323. doi: 10.1002/uog.20220*
19. Donnelly LF, Grzeszczuk R, **Guimaraes CV**, Zhang W, Bisset Iii GS. *Using a Natural Language Processing and Machine Learning Algorithm Program to Analyze Inter-Radiologist Report Style Variation and Compare Variation Between Radiologists When Using Highly Structured Versus More Free Text Reporting. Curr Probl Diagn Radiol. 2018 Oct 9.*
20. Kathryn J. Heaphy-Henault; **Carolina V. Guimaraes**; Amy R. Mehollin-Ray; Christopher I. Cassady; Wei Zhang; Nilesh K. Desai; Michael J. Paldino. *Congenital Aqueduct Stenosis: Findings at Fetal MRI that Accurately Predict a Postnatal Diagnosis. American Journal of Neuroradiology– March 2018.*

21. Fernanda Del Campos Braojo, **Carolina V. Guimaraes** . *Dysplastic Megalencephaly Phenotype Presenting with Prenatal High Output Cardiac Failure*. Pediatric Radiology – March 2018.
22. Sanz Cortes M, Rivera AM, Yopez M, **Guimaraes CV**, Diaz Yunes I, Zarutskie A, Davila I, Shetty A, Mahadev A, Serrano SM, Castillo N, Lee W, Valentine G, Belfort M, Parra G, Mohila C, Aagaard K, Parra M. *Clinical Assessment and Brain Findings in a Cohort of mothers, Fetuses and Infants with Zika Virus*. Am J Obstet Gynecol. 2018
23. **Guimaraes CV**, Grzeszczuk R, Bisset GS 3rd, Donnelly LF. *Comparison Between Manual Auditing and a Natural Language Process With Machine Learning Algorithm to Evaluate Faculty Use of Standardized Reports in Radiology*. J Am Coll Radiol. 2017 Dec 18.
24. Sandi Lam, **Carolina Guimaraes**, Jeremy Y. Jones. *Congenital Mydriasis with Aortic and Cerebrovascular Disease*. Pediatric Neurology 2017 Sept; 74:100-101.
25. **Carolina V. Guimaraes**, MD; Robert M. DeFlorio, MD; Lauren W. Averill, MD Kathlene E. Walters, BS; Ramona A. Beasley, BS, RT; and Lane F. Donnelly, MD. *Implementation of Standardized Reports within a Pediatric Healthcare System With Geographically Dispersed Sites*. JACR – Dec. 2015.
26. Monica Epelman, Arnold C. Merrow, **Carolina V. Guimaraes**, Teresa Victoria, Maria A. Calvo-Garcia, Beth M. Kline-Fath. *Extrafetal Findings on Fetal Magnetic Resonance Imaging: A Pictorial Essay*. Seminars in Ultrasound, Ct and MRI Articles - Dec. 2015.
27. Karen Lyons, Christopher Cassady, Jeremy Jones, Michael Paldino, Amy Mehollin-Ray, **Carolina Guimaraes**, Rajesh Krishnamurthy. *Current Role of Fetal Magnetic Resonance Imaging in Neurologic Anomalies*. Seminars in Ultrasound, Ct and MRI Articles - Aug. 2015.
28. Dinan D, Daneman A, **Guimaraes CV**, Chauvin NA, Victoria T, Epelman M. *Easily Overlooked Sonographic Findings in the Evaluation of Neonatal Encephalopathy: Lessons Learned From Magnetic Resonance Imaging*. Seminars in Ultrasound CT and MRI. Vol 36(6):627-651. 2014
29. Hall MB, **Guimaraes CV**, Nardone HC. *Facial mass in an infant*. JAMA Otolaryngol Headand Neck Surg. May 140(5):475-6 2014.
30. Dinan D, Epelman M, **Guimaraes CV**, Donnelly LF, Nagasubramanian R, Chauvin NA. *The Current State of Imaging Pediatric Hemoglobinopathies*. Seminars in Ultrasound CT and MRI. Vol 34 (6): 493-515, 2014
31. Dinan D, Epelman M, **Guimaraes CV**, Burns RC, Donnelly LF. *Proximal Duodenal Obstruction Associated with a Replaced Right Hepatic Artery*. Pediatric Radiology, Feb;44(2):226-9, 2014
32. Maria A. Calvo-Garcia; Beth M. Kline-Fath; Eva I. Rubio; Arnold C. Merrow; **Carolina V. Guimaraes**; Foong-Yen Lim. *Fetal MRI of Cloacal Exstrophy*. Pediatric Radiology 201;43(5):593-604
33. Neuman J, Calvo-Garcia MA, Kline-Fath BM, Bitters C, Merrow AC, **Guimaraes CVA**, Lim FY. *Prenatal Imaging of Amniotic Band Sequence: Utility and Role of Fetal MRI As An Adjunct To Prenatal Ultrasound* - Pediatric Radiology 2012;42(5):544-51.
34. **Guimaraes CVA**, Leach J, Jones BV, *Trainee Misinterpretations on Pediatric Neuroimaging Studies: Classification, Imaging Analysis, and Outcome Assessment*. American Journal of Neuroradiology, 2011;32(9):1591-9.
35. **Guimaraes CVA**, Kline-Fath BM, Linam LE, Calvo Garcia MA, Rubio EI, Lim FY. *MRI Findings in Multifetal Pregnancies Complicated by Twin Reversed Arterial Perfusion Sequence (TRAP)*.– Pediatr Radiol. 2011 Jun;41(6):694-701.
36. Bischoff A, Levitt M, Lim FY, **Guimaraes C**, Pena A. *Prenatal Diagnosis of Cloacal Malformation*. Pediatr Surg Int 2010 Nov; 26(11):1071-5.

37. **Guimaraes CVA**, Linam LE, Kline-Fath BM, Donnelly LF, et al *Prenatal MRI Findings of Fetuses with Congenital High Airway Obstruction Sequence*. Korean Journal of Radiology 2009; 10 (2): 129-134.
38. **Guimaraes CVA**, Donnelly LF, Shott SR, Amin RS, Kalra M. *Children with Down Syndrome Relative Rather than Absolute Macroglossia*. Pediatric Radiology - 2008; 38: 1062 -1067
39. **Guimaraes CVA**, Kalra M, Donnelly LF, Shott SR, Fritz K, Singla S, Amin RS. *The Frequency of Lingual Tonsil Enlargement in Obese Children*. American Journal of Roentgenology 2008; 190: 973-975
40. **Guimaraes CVA** , Donnelly LF, Warner, BW *CT Findings for Blebs & Bullae in Children with Spontaneous Pneumothorax as Compared with Normal Controls*. Pediatric Radiology 2007;37:879-884
41. Girardi MA, Hennemann AS, Fenner A, **Guimaraes CVA**, Leonel IM, Stein HE, Costi KL, Karcher P, Giovanella RG. *Comparacao Entre Antiinflatórios Inibidores Da COX 1 e 2 e Inibidores Seletivos Da COX 2 Em Relacao a Funcao Renal*. Revista de Ciencias Medicas 2003;1
42. *Diagnostico de Carcinoma Papilar por Meio de Ultra-sonografia*. Revista de Ciencias Medicas 2003;1
43. Santos R, Frigeri L, Ordovas C, Frigeri M, Bertuol I, **Guimaraes CVA**, Mendoca CMF. *Epidemiologia dos tumores do sistema nervoso central – Hospital Nossa Senhora de Pompeia – Servico de Neurocirurgia – A Propósito de 100 casos estudados*. Revista Cientifica Da AMECS 2001;10:24-32

#### **Peer Review Publications / Refereed Articles in press:**

1. Sheng-Che Hung, Mauricio Castillo, Julie Blatt, Dean Homen, **Carolina V Guimaraes**, Carlos Zamora - *Advances in Understanding the Clinical, Genetic and Imaging Features of Neurovascular Neurocutaneous Disorders – BJR*

#### **Submitted Publications:**

1. Marcelo Takahashi, William W. Pryor III, Hisham Dahmouh, **Carolina V. Guimaraes** – *Prenatal Diagnosis of Scalp Aplasia Cutis Congenita in Trisomy 13 – Pediatric Radiology*
2. Lane F. Donnelly, **Carolina V. Guimaraes** - *Event-Based Learning & Improvement: Radiology’s Move from Peer Review to Peer Learning – Seminars in Roentgenology*

#### **Oral Paper Presentations in National and International Meetings:**



1. *Radiographic Structural Changes in Brain Anatomy of Pediatric Fetal vs Postnatal Myelomeningocele Repair Patient.* Shivani Desai, Alice Woolard, **Carolina V. Guimaraes**, Sheng-Che Hung, Carolyn Quinsey. CNS, September 2023
2. *Assessing the impact of multidisciplinary global pediatric surgery-radiology conference.* Brown B, Smith BD, **Guimaraes CV**, McGinty K: Society of Pediatric Radiology 2023 Annual Meeting, Austin TX May 16-20, 2023.
3. *Magnetic Resonance Imaging (MRI) in Term Infants with Hypoxic-Ischemic Encephalopathy (HIE) in the Optimizing Cooling Strategies Trial –* Seetha Shankaran, Abbot Laptook, **Carolina Guimaraes**, Johnathan Murnick, Scott McDonald, Abhik Das, Carolyn Huitema, Athina Pappas, Rosemary Higgins, Susan Hintz, Kris Zaterka-Baxter, for the NICHD Neonatal Research Network - PAS (pediatric academic societies meeting) – April 2023
4. *Identification of Aplasia Cutis and Metopic Synostosis: Expanding the Prenatal Phenotype of Trisomy 13 –* **Carolina V. Guimaraes (presenter)** and Hisham Dahmouh – SPR 2022
5. *Ataxia in Chronic Granulomatous Disease Due to Metronidazole Toxicity -* Yasemin Cagil, Diane Hsu, Ann Ming Yeh, Marwa Abu El Haija, **Carolina Guimaraes** - World Congress for Pediatric Gastroenterology, Hepatology and Nutrition, Vienna, Austria June 2021
6. *Is ventriculomegaly and hindbrain herniation seen before and after prenatal neural tube defect repair associated with a worse functional level than anatomical level at birth –* R. Corroenne, A. Zarutskie, **C. Guimaraes**, M. Yepez, P. Torres, A.N. Shetty, W. Lee, J. Espinoza, A. Shamshirsaz, A. Nassr, M.A. Belfort, M. Sanz-Cortes, *ISUOG 2020*
7. *Acute Hyperextension "Surfer's" Myelopathy in a Gymnast: Bending over Backwards for Diagnosis"* Rebecca Levy, Carolina V. Guimaraes, Sonia Partap. American Academy of Neurology Annual Meeting,, 2020, Toronto
8. *Cardiac dysfunction in hypoxic ischemic encephalopathy is associated with increase rate of death and brain injury.* Gabriel Altit, MD, Sonia Bonifacio, MD, **Carolina V. Guimaraes, MD**, Shazia Bhombal, MD, Ganesh Sivakumar, BSc, Beth Yan, BS, Valerie Chock, MD, Krisa Van Meurs, MD. Pediatric Academic Societies Meeting (PAS), Philadelphia, 2020
9. *Fetal Neuroradiologic Phenotyping May Lead to Earlier Diagnosis in Conditions Impacting the Midbrain-Hindbrain.* Ryan Gates, **Carolina V. Guimaraes**, Hisham Dahmouh, Heater Byers. WSPR, Carmel 2019 Journal of Investigative Medicine, 2019 Vol. 67 (1), 239 (abstract #406)
10. *Characterization of Cortical Brain Malformations During Development of Fetuses with Spina Bifida Undergoing in Utero Neural Tube Defect Repair.* Monika Pyarali, BS; Magda Sanz Cortes, MD, PhD; **Carolina Guimaraes, MD**; Annie Hsiao, MD; Mayel Yepez, MD; Paola Torres, MD; Anil Shetty, PhD; Ivan Davila, MD; Alexander Zarutskie, BS; Dina Sharham, BS; Ahmed A. Nassr, MD; Jimmy Espinoza, MD; Alireza Shamshirsaz, MD; Wesley Lee, MD; William Whitehead, MD; Michael A Belfort, MD, PhD. ISFB, Washington DC, 2018
11. *Does the Severity of Hindbrain Herniation in Fetuses with Chiari II Malformation Predict the Need for Postnatal Hydrocephalus Treatment After In Utero Intervention?* **Guimaraes CV (presenter)**, Vidal LM, Desai N, Sanz-Cortes M, Zarutskie A, Lee W, Belfort M, Whitehead W. *Pediatr Radiol* 2017; 47:S94 – SPR 2017
12. *Implementing a System Approach to Improve Governance and Deployment of Imaging (IMG) Codes in Pediatric Radiology.* **Guimaraes CV (presenter)**, Millecker L, Garza JA, Blado M, Lokey C, Donnelly LF. Vancouver, Canada, May 2017. *Pediatr Radiol* 2017;47:S94-95 – SPR 2017
13. *Comparison between manual Auditing and an Automated Auditing Software Program to Evaluate Use of Standardized Reports in Radiology.* **Guimaraes CV (presenter)**, Grzeszczuk R, Donnelly LF, Bisset GS III. Vancouver, Canada, May 2017. *Pediatr Radiol* 2017;47:S95 – SPR 2017

14. *"A tool to Analyze Radiologists" Reporting Styles and provide Feedback as a Means for Self-Improvement.* Grzeszczuk R, Donnelly LF, **Guimaraes CV**, Bisset GS III. Vancouver, Canada, May 2017. *Pediatr Radiol* 2017;47:S95-96 – SPR 2017
15. *Clinical Assessment and Brain Findings in a Cohort of mothers, Fetuses and Infants with Zika Virus.* Sanz Cortes M, Rivera AM, Yepez M, **Guimaraes CV**, Diaz Yunes I, Zarutskie A, Davila I, Shetty A, Mahadev A, Serrano SM, Castillo N, Lee W, Valentine G, Belfort M, Parra G, Mohila C, Aagaard K, Parra M. 37<sup>th</sup> Annual Pregnancy Meeting, Las Vegas, NV, January 23-28, 2017
- 16. IFMSS Young Investigator Travel Award**  
*Aqueduct Stenosis: Which fetal MRI findings accurately predict a postnatal diagnosis?* Henault K., **Guimaraes CV**, Meholin-ray A, Paldino M. Botswana, International Fetal Medicine and Surgery Society (IFMSS)- 2016
17. *Fetal MRI Findings in Cloacal Exstrophy / OIES Complex.* Maria A. Calvo, Beth M. Kline-Fath, Eva I. Rubio, **Carolina V. A. Guimaraes**. RSNA, Chicago – IL, December 2011
18. *Late Gestation Fetal MRI-Derived Total Lung Volume (TLV) Predicts Postnatal Survival and Need for ECMO Support in Isolated Congenital Diaphragmatic Hernia.* Timothy C. Lee, Foong Y. Lim, Sundeep G. Keswani, Jason S. Frischer, Beth E. Haberman, Paul S. Kingma, Mounira Habli, Ronald K. Jaekle, Beth M. Kline-Fath, Eva I. Rubio, Maria A. Calvo, **Carolina V. A. Guimaraes** and Timothy M. Crombleholme  
American Academy of Pediatrics National Conference & Exhibition San Francisco – CA, October - 2010
19. *Is Prenatal Sonography Accurate in identification of Congenital Lung Lesions?* Beth M. Kline-Fath, Preeyacha Pacharn, Constance Bitters, Maria A. Calvo-Garcia, **Carolina Guimaraes**, Eva Rubio, Steve Imhoff, William Polzin, Alan Brody. SPR, Boston – MA, April 2010
20. *The Many Faces of TRAP on Fetal MRI.* **Guimaraes CVA (presenter)**, Kline-Fath BM, Linam, LE Calvo-Garcia MA, Rubio EI, Crombleholme TM. SPR, Carlsbad – CA, April – 2009
21. *Pediatric Neuroradiology Case.* **Guimaraes CVA (presenter)**. John Caffey Society Meeting. Ashville NC, June 2008
22. *Prenatal MRI Findings in Congenital High Airway Syndrome (CHAOS).* **Guimaraes CVA (presenter)**, Linam, LE, Kline-Fath BM, Donnelly LF, Lim FY, Hopkin RJ, Calvo-Garcia MA, Rubio EI, Livingston JC, Crombleholme TM. SPR, Scottsdale – AZ, May 2008
23. *Cervical Lymphadenitis and Retropharyngeal Abscess Evaluation with Airway Radiographs and CT.* **Guimaraes CVA (presenter)**, Radhakrishnan R, Ying J, Jones BV. SPR, Scottsdale – AZ, May 2008
24. *Prenatal MRI Findings in Congenital High Airway Syndrome (CHAOS)* **Guimaraes CVA (presenter)**, Linam, LE, Kline-Fath BM, Donnelly LF, Lim FY, Hopkin RJ, Calvo-Garcia MA, Rubio EI, Livingston JC, Crombleholme TM. Annual Regional Genetics Conference, Cincinnati – OH, April 2008
25. *Do Children with Down Syndrome Have true or Relative Macroglossia?* **Guimaraes CVA (presenter)**, Kalra M, Donnelly LF, Shott SR, Chini BA, Amin RS. RSNA, November 2007, Chicago, IL
26. *CT Findings for Blebs & Bullae in Children with Spontaneous Pneumothorax as Compared with Normal Controls.* **Guimaraes CVA (presenter)**, Donnelly LF, Warner, BW. Midwest Society for pediatric radiology. September 2007, Cincinnati, Ohio
27. *CT Findings for Blebs & Bullae in Children with Spontaneous Pneumothorax as Compared with Normal Controls.* **Guimaraes CVA (presenter)**, Donnelly LF, Warner, BW. *ESPR*, Jun 2007, Barcelona, Spain
28. *The Frequency of Lingual Tonsil Enlargement in Obese Children.* **Guimaraes CVA (presenter)**, Kalra M, Donnelly LF, Shott SR, Fritz SS, Amin RS. SPR, April 2007, Miami – FL- USA

29. *Is Adenoid Size Associated with Development of Obstructive Sleep Apnea in Obese Children?* **Guimaraes CVA (presenter)**, Kalra M, Donnelly LF, Shott SR, Fritz SS, Amin RS. SPR, April 2007, Miami – FL- USA
30. *CT Findings for Blebs & Bullae in Children with Spontaneous Pneumothorax as Compared with Normal Controls.* **Guimaraes CVA (presenter)**, Donnelly LF, Warner, BW. SPR, April 2007. Miami – FL- USA
31. *Prevalence of Findings in MRI of the Knee.* **Guimaraes CVA (presenter)**, Maia PT, Souto SL, Nitz PG, Abreu M, Genro CH, Abreu A. Jornada Gaucha de Radiologia, August 2004. Gramado, Rio Grande do Sul, Brazil
32. *MR Evaluation of Reconstruction of the Anterior Cruciate Ligament.* **Guimaraes CVA (presenter)**, Serra JL, Souto SL, Nitz PG, Abreu M, Genro CH, Abreu A. Jornada Gaucha de Radiologia, August 2004 Gramado, Rio Grande do Sul, Brazil
33. *Brodies Abscess in a child.* **Guimaraes CVA (presenter)**. Clube Hugolino Andrade Sociedade Gaucha de Radiologia. Porto Alegre, Rio Grande do Sul, Brazil, March 2003.

#### **Posters / Educational Exhibits:**

1. *Congenital spinal abnormalities, a pictorial review* – Educational Exhibit. Kalind Parashar, **Carolina V. Guimaraes**, Valerie Jewells – accepted ASNR 2023
2. *Cerebral Asymmetry* – Educational Exhibit. Selima Siala, **Carolina V Guimaraes** - accepted ASNR 2023
3. *Diffusion-weighted Imaging Patterns in Pediatric Neurometabolic Disorders* – Educational Exhibit. Caleb Epps, Hisham Dahmouh, **Carolina V. Guimaraes** – RSNA 2022
4. *Acute Hyperextension "Surfer's" Myelopathy in a Gymnast: Bending over Backwards for Diagnosis"* Rebecca Levy, Carolina V. Guimaraes, Sonia Partap. American Academy of Neurology Annual Meeting, April 25 to May 1, 2020, Toronto
5. *The Many Faces of Brainstem Anomalies.* Sean Creeden, **Carolina V. Guimaraes**, Hisham Dahmouh. SPR 2019
6. *Posterior Fossa Findings in Prenatal Diagnosis of Dystroglycanopathy - Extending Beyond Brainstem Kinking.* **Carolina V. Guimaraes**, Fernanda D.C. Braojos, Wei Zhang, Christopher I. Cassady D, Amy R. Meholling-Ray, Nilesh K. Desai – SPR 2018
7. *Diagnosing Cerebral Aqueduct Stenosis. What Pediatric Radiologists Should Look for on Fetal and Postnatal MRI.* Lorena Vidal, **Carolina V. Guimaraes**. SPR – 2017
8. *Fetal MRI Before and After In Utero Repair of Myelomeningocele: What the Neuroradiologists Should Know.* Lorena Vidal, **Carolina V. Guimaraes**, Amy Mehollin-Ray. ASNR – 2017
9. *Unknown case – Coats Plus Syndrome.* **Carolina V. Guimaraes**, Tushar Chandra, Thang Ngo ASNR – 2017
10. *Differentiating Prominent Subarachnoid Spaces from Isodense Subdural Collections seen on CT in Infants* **Carolina V. Guimaraes**, Lane F. Donnelly. SPR – 2014
11. Certificate of Merit award. *The "DWIBSlight" Saga: Breaking Dawn - Shedding Light on DWIBS Imaging in Pediatric Patient.* Epelman M; **Guimaraes C**, Dinan D. Johson C, Donnelly L. RSNA- 2014
12. *Implementation of Standardized Reports within a Pediatric Health Care System with Locations across Multiple States.* **Carolina V.A. Guimaraes**, Lane F. Donnelly, Lauren Averill, Robert DeFlorio. RSNA 2013

10. *Easily Missed Sonographic Findings in the Diagnosis of Hypoxic-Ischemic Injuries.* **Carolina Guimaraes**; Alan Daneman; Susan I. Blaser; Monica Epelman. RSNA, Chicago, 2012
11. *Distinguishing Imaging Features of Fetal Cervical Teratomas: The Utility of Fetal Magnetic Resonance Imaging and Ultrasound* Eva I Rubio, MD; Maria A Calvo-Garcia MD; **Carolina V.A Guimaraes** MD; Constance Bitters; Beth Kline-Fath, MD
12. *MR Imaging Features of Fetal Mediastinal and Intrapericardial Teratomas.* Eva I Rubio, MD; Maria Calvo-Garcia MD; **Carolina V.A Guimaraes MD**; Constance Bitters; Beth Kline-Fath, IPR 2011
13. *Prenatal Imaging of Amniotic Band Syndrome.* Jeremy Neuman MD, Maria A. Calvo-Garcia MD, Constance Bitters RN RDMS, Beth M. Kline-Fath MD, Arnold C. Merrow MD, **Carolina V. A. Guimaraes** MD, Foong-Yen Lim MD. IPR 2011
14. *Trainee Misinterpretations on Pediatric Neuroimaging Studies: Classification, Imaging Analysis, and Outcome Assessment.* James Leach, **Carolina Guimaraes**, Blaise Jones. ASNR -Boston, May 2010
15. *Prenatal Diagnosis of Vascular Birthmarks.* Maria A Calvo-Garcia, Beth Kline-Fath, Tal Laor, Denise Adams, Anita Gupta, Bernadette L Koch, Eva I Rubio, **Carolina Guimaraes**, Foong-Yen Lim, Constance Bitters, Timothy M Crombleholme. SPR, Boston – MA - April 2010
16. *Fetal MRI Characterization of Genetic Syndromes.* Rupa Radhakrishnan, Eva Rubio, Leann Linam, Maria Calvo-Garcia, **Carolina Guimaraes**, and Beth Kline-Fath. SPR, Carlsbad – CA - April – 2009
17. *Fetal MRI in the Comprehensive Assessment of Down Syndrome.* Eva Rubio, Rupa Radhakrishnan, Leann Linam, Maria Calvo- Garcia. **Carolina Guimaraes**, and Beth Kline-Fath. SPR, Carlsbad - CA - April 2009
18. *Pseudomyxoma Peritoneum.* **Guimaraes CVA**, Rodrigues MP, Genro CH, Abreu . Jornada Gaucha de Radiology. August 2003, Gramado, Rio Grande do Sul, Brazil
19. *Ultrasound Evaluation of Papillary Carcinoma of the Thyroid.* Dellamea LT, **Guimaraes CVA**, Paganella VC, Pessoa DB. Jornada Gaucha de Radiologia, August 2002, Brazil
20. *Focal Fatty Infiltration of the Liver.* Dellamea LT, Giovanardi R, **Guimaraes CVA**, Paganella VC, Pessoa DB. Jornada Gaucha de Radiologia, August 2002, Brazil
21. *MR Evaluation of Pituitary Adenoma.* Rocha PR, Mattana PR, Ferri A, Garcia CBA, **Guimaraes CVA**, Giovanella RG. Jornada Gaucha de Radiologia, August 2001, Brazil
22. *Comparacao Entre Antiinflamatorios Inibidores Da COX 1 e 2 e Inibidores Seletivos Da COX 2 Em Relacao a Funcao Renal.* Girardi MA, Hennemann AS, Fenner A, **Guimaraes CVA**, Leonel IM, Stein HE, Costi KL, Karcher P, Giovanella RG . Congresso Comemorativo Do Cinquentenario AMRIGS October 2001, Porto Alegre, Rio Grande do Sul, Brazil

## TEACHING AND CLINICAL CARE:

### Clinical Teaching Responsibilities:

2022 – present     **Neuroradiology Fellows and Radiology Residents – Teaching and supervision**  
 University of North Carolina at Chapel Hill, School of Medicine

- 2018 – 2021     **Pediatric Radiology Fellows, Neuroradiology Fellows and Radiology Residents – Teaching and supervision**  
Stanford University, School of Medicine
- 2015-2017     **Radiology Resident – teaching and supervision**  
Baylor College of Medicine
- 2015-2017     **Pediatric Radiology and Neuroradiology Fellows - teaching and supervision**  
Texas Children’s Hospital
- 2012-2015     **Medical Student – teaching**  
Florida State University College of Medicine  
University of Central Florida College of Medicine
- 2009-2011     **Pediatric Radiology and Neuroradiology Fellows - teaching and supervision**  
Cincinnati Children’s Hospital Medical Center

**Educational Roles / Initiatives:**

- 2019- 2021     **Pediatric Neuroradiology Case of the Week Initiative**  
Stanford School of Medicine
- 2018           **Pediatric Radiology Educational Curriculum for Rotating Radiology Residents**  
Stanford School of Medicine
- 2012-2014     **Director, Medical Student Rotation in Pediatric Radiology**  
Florida State University College of Medicine
- 2012-2014     **Director, Medical Student Rotation in Pediatric Radiology**  
University of Central Florida College of Medicine

**Student Mentorship:**

- 2023 - present   **Mentee: Danika Baskar MD – Research Fellow - UNC**  
Peripheral Cerebral Vein Distribution - ongoing
- 2022 – 2023     **Mentee: Selima Siala MD – Research Fellow - UNC**  
Septum Pellucidum, Normal and Abnormal – published BJR  
Cerebral Asymmetry – ASNR Educational exhibit
- 2017 -2018     **Mentee: Fernanda DC Braojos MD – International Fetal Research Fellow TCH**  
**Research supervision – Fetal Brain Malformations**  
Paper presentation - Society for Pediatric Radiology Annual Meeting 2017  
*Posterior Fossa Findings in Prenatal Diagnosis of Dystroglycanopathy - Extending Beyond Brainstem Kinking*
- 2017           **Mentee : Loreнна Vidal MD – Pediatric Neuroradiology Fellow - TCH**  
**Research supervision – Congenital Aqueduct Stenosis**

Educational exhibit - Society for Pediatric Radiology Annual Meeting 2017  
*Diagnosing Cerebral Aqueduct Stenosis. What Pediatric Radiologists Should Look for on Fetal and Postnatal MRI*

2017      **Mentee : Loreнна Vidal MD – Pediatric Neuroradiology Fellow**  
**Research supervision - Fetal Neural Tube defect**  
Educational exhibit - American Society for Neuroradiology Annual Meeting 2017  
*Fetal MRI Before and After In Utero Repair of Myelomeningocele: What the Neuroradiologists Should Know*

2016      **Mentee: Katie Heaphy-Henault MD – Radiology Resident**  
**Research supervision – Congenital Aqueduct Stenosis**  
Paper presentation – IFMSS, Botswana, 09/ 2016  
*Aqueduct Stenosis: Which fetal MRI findings accurately predict a postnatal diagnosis?*  
**IFMSS Young Investigator Travel Award**  
Article - AJNR: *Congenital Aqueduct Stenosis: Findings at Fetal MRI that Accurately Predict a Postnatal Diagnosis*

**Peer Mentorship:**

2023      **Mentee: William Pryor MD, assistant professor of radiology UNC**

2022      **Mentee: Benjamin Smith MD, assistant professor of radiology UNC**

**Interdepartmental Educational Lectures:**

2022      ***New Faces and Images from Radiology***  
UNC Pediatric Grand Rounds

2022      ***Fetal MRI***  
UNC Neurosurgical Grand Round

2021      ***Virtual Autopsy***  
LPCH Perinatal Lecture Series

2021      ***Basic Neuroradiology Imaging Interpretation***  
LPCH PICU Annual Lecture Series

2020      ***Basic Neuroradiology Imaging Interpretation***  
LPCH PICU Annual Lecture Series

2020      ***Neuroimaging Interpretation***  
LPCH Neurology Lecture Series

2019      ***Fetal Ventriculomegaly***  
LPCH Genetics Annual Lecture Series

2019      ***Fetal Neuroimaging Research***  
LPCH Cardiology Research series

- 2019      ***Basic Head Ultrasound Interpretation***  
LPCH Neurology
- 2018      ***Imaging Findings in HIE***  
LPCH NeuroNICU webinar / Grupo Santa Joana in Sao Paulo and Rio de Janeiro, Brazil
- 2018      ***Basic Neuroradiology Imaging Interpretation***  
LPCH PICU Annual Lecture Series
- 2017      ***Basic Neuroimaging Interpretation***  
Texas Children's NICU
- 2016      ***Fetal MRI – How Do I do It***  
Texas Children's Maternal Fetal Care Center

**Trainee Educational Lectures:**

- 2023      Head and Spine US – Radiology Residents (1h)
- 2023      Pediatric Neuroradiology Case Conference – Residents and Neuroradiology Fellows (30min every week)
- 2022      Pediatric Brain Tumors – Radiology Residents (1h)
- 2022      Fetal Neuroimaging – Neuroradiology Fellows (1h)
- 2022      Fetal Cases – Neuroradiology Fellows (1h)
- 2022      Pediatric Neuroradiology Case Conference – Residents and Fellows (30 min every week)
- 2021      Pediatric Head Trauma (30 min bi-monthly to residents – 18 hrs)
- 2021      Pediatric ED Head and Neck Imaging (30 min bi-monthly to residents-18 hrs)
- 2021      Pediatric Brain Tumors (30 min bi-monthly to rotating residents - 18 hrs)
- 2021      Neonatal Brain Imaging - Neuroradiology Fellows (1h)
- 2021      CNS Infection – Pediatric Radiology Fellows (1h)
- 2021      Head and Neck pediatric ED – Radiology Residents (1h)
- 2020      Journal Club – Pediatric Radiology Fellows (45min)
- 2020      Interesting case conference – Extra-fetal findings on fetal MRI (1h)
- 2020      Fetal Brain Imaging - Neuroradiology Fellows (1h)
- 2020      Neonatal Brain Imaging - Neuroradiology Fellows (1h)
- 2020      Fetal Neuroimaging – Pediatric Radiology Fellows (1h)
- 2020      Hypoxic Ischemic Insult – Pediatric Radiology Fellows (1h)
- 2020      Pediatric ED Head and Neck Imaging - Neuroradiology Fellow lecture (45min)

- 2019 Normal, Variants and Common Abnormal Findings in Pediatric Brain Imaging- (45min)
- 2019 Pediatric Head Trauma (30 min bi-monthly to residents – 18 hrs)
- 2019 Pediatric ED Head and Neck Imaging (30 min bi-monthly to residents-18 hrs)
- 2019 Pediatric Brain Tumors (30 min bi-monthly to rotating residents - 18 hrs)
- 2019 Imaging of Sensorineural Hearing Loss in Pediatrics - Resident lecture (45min)
- 2019 Brain Malformations – Resident lecture (45min)
- 2019 Brain Malformations – Pediatric Radiology Fellow lecture (45min)
- 2019 Fetal Neuroimaging - Resident lecture (45min)
- 2019 Fetal Neuroimaging - Pediatric Radiology Fellow lecture (45min)
- 2019 CNS Infection - Pediatric Radiology Fellow lecture (45min)
- 2018 Pediatric Head Trauma (30 min bi-monthly to residents – 18 hrs to date)
- 2018 Pediatric ED Head and Neck Imaging (30 min bi-monthly to residents-18 hrs to date)
- 2018 Pediatric Brain Tumors (30 min bi-monthly to rotating residents - 18 hrs to date)
- 2018 Pediatric Head Trauma – Neuroradiology Fellow lecture (45min)
- 2018 Pediatric Neuroimaging Emergencies- Resident lecture (45min)
- 2017 CNS Infection - Pediatric Radiology Fellow lecture (45min)
- 2016 Fetal Neuroimaging - Pediatric Radiology Fellow lecture (45min)
- 2016 Pediatric Neuroimaging Emergencies- Resident lecture (45min)
- 2015 Pediatric Neuroimaging Emergencies- Fellow lecture (45min)
- 2013 Ultrasound Imaging of Appendicitis - Technologist lecture (45min)
- 2012 Fetal Neuro Cases – Fellow lecture (45min)
- 2011 Pediatric Neuroimaging Emergencies- Fellow lecture (45min)
- 2010 Pediatric Neuroimaging Emergencies- Fellow lecture (45min)

**Visiting Professor Lectures**

- 2022 **New Faces and Images from UNC Radiology**  
Cone Health Pediatric Grand Rounds
- 2021 ***Virtual Autopsy***  
Oregon Health and Science University  
Virtual lecture



2011 ***Neuro Fetal Imaging - Case Base***  
Department of Radiology, Medical University of South Carolina  
Charleston, SC

**Lectures in National and Regional Meetings:**

- 04/2023 **Fetal Posterior Fossa – It is not all Dandy Walker**  
Society for Pediatric Radiology Annual Meeting - 2023
- 01/2023 **Medical Genetics and Radiology: When Advance Imaging is Indicated?**  
Society for Pediatric Radiology - Fetal Imaging Meeting -2023
- 01/2023 **Rapid Fire Fetal MRI Cases**  
American Society for Pediatric Neuroradiology- 2023
- 01/2023 **Managing Contrast Shortage**  
Bracco Sponsored Lecture – ASPNR 2023
- 11/2022 **Hyperdense and Hypodense Findings on Emergent Head CT**  
RSNA 2022
- 11/2022 **Fetal Neuroimaging of Genetic Diseases**  
North Carolina Medical Genetics Association – Dec. 2022
- 09/2022 **IVH in Term Neonate**  
Newborn Brain Society Webinar – 2022
- 09/2022 **Head Ultrasound**  
North Carolina Ultrasound Society – 2022
- 04/2022 **Fetal Neuroimaging Phenotypes of Genetic Diseases**  
Society for Pediatric Radiology Annual Meeting – SPR – Denver, CO, 2022
- 04/2022 **Jeopardy Game**  
Society for Pediatric Radiology Annual Meeting – SPR – Denver, CO, 2022
- 01/2020 **Name That Syndrome**  
American Society for Pediatric Neuroradiology – Miami, 2020
- 03/2020 **Neuro-Imaging – What the clinician needs to know about MRI and Head US?**  
Canceled due to COVID -19  
Lucille Packard Children’s Hospital Stanford – Innovative Care of The Newborn Brain
- 03/2020 **Neuroimaging, Cooling Cases and Clinical QI Measures for Neuroprotection Workshop**  
Canceled due to COVID -19  
Lucille Packard Children’s Hospital Stanford – Innovative Care of The Newborn Brain
- 05/2020 **Neuroradiology Interesting Cases**  
Canceled due to COVID -19  
Society for Pediatric Radiology Annual Meeting – SPR – Miami

- 11/2020      ***CNS: disorders of neuronal migration and proliferation***  
Advanced Fetal Imaging: Ultrasound and MRI - Scottsdale, AZ, 2020
- 11/2020      ***CNS: fetal stroke***  
Advanced Fetal Imaging: Ultrasound and MRI - Scottsdale, AZ, 2020
- 09/2019      ***Name That Syndrome***  
Society for Pediatric Radiology – Fetal Imaging Meeting – Philadelphia
- 09/2019      ***Genotype-Phenotype Correlation in Fetal Brain Malformations***  
Society for Pediatric Radiology – Fetal Imaging Meeting – Philadelphia
- 11/2017      ***Prenatal Imaging Evaluation of Anorectal Malformations***  
Hendren Project – Web based lecture – International Colorectal Surgeons
- 04/2016      ***Head Ultrasound – just images***  
American Institute For Ultrasound in Medicine (AIUM) Annual Meeting - New York
- 09/2014      ***Head and Neck Imaging for Orlando APNs***  
Annual Congress and Nursing Symposium – Orlando
- 09/2008      ***Prenatal Diagnosis of CNS Abnormalities: Ultrasound and MRI Correlation Case Based***  
Maternal Fetal Medicine Regional Meeting, Cincinnati, OH

**Lectures in International Meetings:**

- 09/2023      **Fetal Brain Development**  
SPIN annual meeting
- 07/2023      **Fetal Head and Neck – Not to Miss Diagnosis**  
SPIN / WFPI webinar
- 06/2023      **Leukodystrophy Cases**  
V International Symposium of Neuroradiology – ISN 2023
- 04/2023      **Neonatal HIE**  
SLARP 2023 – Brazil
- 07/2021      ***Neonatal Hypoxic Ischemic Injury: The Typical and Atypical Cases***  
Asian and Oceanic Congress of Radiology – Virtual
- 07/2020      ***Neonatal Hypoxic Ischemic Injury: The Typical and Atypical Cases***  
Cancelled due to COVID - Asian and Oceanic Congress of Radiology – Kuala Lumpur
- 07/2020      ***Updates in Fetal MRI***  
Cancelled due to COVID - Asian and Oceanic Congress of Radiology – Kuala Lumpur
- 04/2016      ***Traumatic Brain Injury***  
PR, Sao Paulo – Brazil
- 04/ 2016      ***Fetal CNS evaluation with post-natal correlation***

- JPR, Sao Paulo – Brazil
- 04/2016      ***Effects of Congenital Heart Disease in The Brain***  
JPR, Sao Paulo – Brazil
- 10/2015      ***Traumatic Brain Injury***  
Child 2015, Curitiba – Brazil
- 10/2015      ***CNS Infection***  
Child 2015, Curitiba – Brazil
- 10/2015      ***Head and Neck Inflammatory / Infectious Processes***  
Child 2015, Curitiba – Brazil
- 09/2011      ***Neonatal MRI Evaluation of the Preterm Brain***  
Advances in Fetal and Neonatal Imaging. Sao Paulo – Brazil
- 09/2011      ***Supratentorial Fetal Brain***  
Advances in Fetal and Neonatal Imaging. Sao Paulo – Brazil
- 07/2009      ***Neuro Fetal MRI***  
International Symposium on Pediatric Radiology. Rio de Janeiro – Brazil
- 10/2009      ***Cervical Lymphadenitis and Retropharyngeal Abscess***  
Sociedad Latinoamericana de Radiologia Pediatrica. Santiago – Chile
- 10/2008      ***Neuro Fetal MRI***  
Sociedad Latinoamericana de Radiologia Pediatrica. Guadalajara – Mexico

**QUALITY IMPROVEMENT PROJECTS AND OPERATIONAL ROLES:**

- 2023              **Implementation of Pediatric Standard Reports**  
UNC Department of Radiology - completed
- 2023              **Creation of Pediatric Specific MRI protocols**  
UNC Department of radiology – ongoing
- 2018-2021        **Standard Report Leader**  
Lucile Packard Children’s Hospital
- 2019-2020        **Re-Structured MRI Scheduling Process for Pediatric Neuroradiology**  
Lucile Packard Children’s Hospital
- 2019              **Workflow Management of Fail Exams and Linking Reports**  
Lucile Packard Children’s Hospital
- 2018              **Improving Onboarding Process for Radiology Faculty**  
RITE Project, Stanford School of Medicine
- 2018              **Creation and Implementation of Pediatric Radiology Intranet Page**  
Lucile Packard Children’s Hospital

2018	<b>Project Leader - Procedure Code Optimization for Pediatric Neuroradiology</b> Lucile Packard Children's Hospital
2016-2017	<b>Project Leader – Standard Report Committee</b> Standard Report Implementation for Texas Children Hospital Radiology
2016-2017	<b>Project Leader – IMG (imaging code optimization)</b> Texas Children's Hospital Radiology
2013-2015	<b>CPT code optimization for Nemours-wide Radiology</b> Nemours-wide Radiology
2012-2015	<b>Project Leader – Standard Report Committee</b> Standard Report Implementation for Nemours- Radiology

**PUBLIC AND PROFESSIONAL SERVICE:**

**Active Professional Societies Membership:**

Radiologic Society of North America  
 American Society of Pediatric Neuroradiology  
 American Society of Neuroradiology  
 Society for Pediatric Radiology  
 American Roentgen Ray Society  
 Society of Chiefs of Radiology at Children's Hospitals (SCORCH)  
 American Association for Women Radiologists

**Ad Hoc Reviewer:**

Pediatric Radiology Journal  
 American Journal of Neuroradiology  
 Journal of Ultrasound in Medicine  
 Chinese Journal of Academic Radiology

**Societies / Committee Service:**

2022 - present	ASPNR - Social Media Committee
2021- present	ASPNR - Fundraising Committee
2018- present	RAPNO (response assessment for pediatric neuro-oncology tumors) Committee
2022– present	SPR Nominating Committee
2023	SPR Bylaws Committee
2023	ASPNR Industry Relations Committee
2023	SPIN Academics (Society of Pediatric Neuroimaging) Scientific Committee
2023	ASNR Education Committee

2023 ASNR International Collaborations

2023 ACR Appropriateness Criteria - Child with Hydrocephalus

2023 ACR Appropriateness Criteria - Child with Vision Loss

2022 ASNR Moderator

2022 Social Media Committee - American Association for Women Radiologists

2022 ACR Appropriateness Criteria: Back Pain Child

2022 Society for Pediatric Radiology Annual Meeting – Fetal Imaging Section Moderator

2022 ASNR annual meeting moderator – Pediatric 2021 WHO Tumor Classification

2022 Award Committee - American Association for Women Radiologists

2021- 2022 ASPNR - News and Updates Committee

2018- 2022 Interesting Case Committee – American Society of Pediatric Neuroradiology

2021 ACR Appropriateness Criteria: Ataxia-Child

2021 RSNA – Pediatric Neuroradiology Scientific Section Moderator

2021 ASPNR – Fetal Webinar Moderator

2020 Society for Pediatric Radiology 2020 Annual Meeting – abstract reviewer

2020 American Society of Neuroradiology 2020 Annual Meeting – abstract reviewer

2020 American Society of Neuroradiology 2020 Annual Meeting – abstract section moderator  
Cancelled due to COVID

2018- 2020 Neuroradiology Twitter account co-leader - Society for Pediatric Radiology

2017- 2020 Fetal Imaging Committee – Society for Pediatric Radiology

2015- 2020 Neuroradiology Committee - Society for Pediatric Radiology

2019 ACR – SPR Collaborative Committee – Practice Parameters for the Safe and Optimal Performance of Fetal Magnetic Resonance Imaging (MRI)

2019 Society for Pediatric Radiology– Judge Best Interesting Case Contest Annual Meeting  
Cancelled due to COVID

2017 Caffey Committee – Society for Pediatric Radiology Annual Meeting

**Summary of Newsworthy Articles – American Society for Pediatric Neuroradiology (ASP NR) Website**

2021 Summary of the article:

*Association Between Socioeconomic Status and In Utero Fetal Brain Development*

Lu YC, Kapse K, Andersen N, Quistorff J, Lopez C, Fry A, Cheng J, Andescavage N, Wu Y, Espinosa K, Vezina G, du Plessis A, Limperopoulos C.  
<https://aspnr.org/newsworthy/lower-socioeconomic-status-is-associated-with-poorer-outcomes/>

2021 Summary of the article:

*Evidence of Disrupted Rhombic Lip Development In the Pathogenesis of Dandy-Walker Malformation*  
<https://aspnr.org/newsworthy/evidence-of-disrupted-rhombic-lip-development-in-the-pathogenesis-of-dandy-walker-malformation/>

### **Interesting Cases – Society Websites**

2023 Septo-preoptic Holoprosencephaly  
AJNR Case of the week

2022 Congenital Epulis  
AJNR Case of the week

2022 Hereditary Spastic Paraplegia  
AJNR Classic cases

2021 Hemiconvulsion-Hemiplegia Syndrome  
American Society for Pediatric Neuroradiology (ASPNR) Website

2021 Acute Encephalopathy with Biphasic Seizures and Late Diffusion restriction (AESD)  
American Society for Pediatric Neuroradiology (ASPNR) Website

2020 Infant with Facial Asymmetry  
Expert Review – Society for Pediatric Radiology (SPR) Website  
[https://myedu.pedrad.org/products/neonatal-facial-asymmetry-non-cme#tab-product\\_tab\\_contents\\_\\_2](https://myedu.pedrad.org/products/neonatal-facial-asymmetry-non-cme#tab-product_tab_contents__2)

2020 Infraselar Craniopharyngioma  
American Society for Pediatric Neuroradiology (ASPNR) Website  
<https://aspnr.org/case-of-the-month-august-2020/>

### **Grants:**

1. Fetal Magnetic Resonance Imaging (MRI) and Congenital Limb Anomalies: Impact on Prenatal Counseling and Understanding Brain Functional Networks – Co-investigator
2. Neonatal Research Network Clinical Trial - Optimizing Cooling MRI Working Group – (NCT01192776) - (MRI central reader)
3. Neonatal Research Network Clinical Trial - MRI Findings Among Newborns 33 to 35 weeks Gestation Following Hypoxic-Ischemic Encephalopathy – (NCT01793129) – (MRI central reader)

### **Public Service:**

2017-present Outreach Volunteer Reader – World Federation of Pediatric Radiology

2001 *Evaluation of Employees of Universidade de Caxias do Sul for Obesity Related Risk Factors*

