

Curriculum Vitae

Sandrine Yazbek, M.D. M.Sc.
Assistant Professor, Department of Radiology
University of Maryland Medical Center

Date February 1st, 2024

Contact Information

Business Address: Department of Diagnostic Radiology and Nuclear Medicine
22 S. Greene Street Room N2E23
Baltimore, MD 21201

Phone Number: 443-973-1213
Email: syazbek@som.umaryland.edu
Sandrine.yazbek@umm.edu
sandrineyazbek@gmail.com

Foreign Languages: French (native), Arabic (fluent)

Education

1993 - 1999 B.S., Biology (French Baccalaureates), Saint Joseph Antoura School (Magna Cum Laude)
1999 - 2006 M.D., Saint Joseph University
2007 ECFMG Certificate
2013 Clinical Functional MRI and Diffusion Tractography Course, Memorial Sloan-Kettering
Cancer Center, Weill Cornell Medical College, NY
2016 - 2018 Euro-Mediterranean Master in Neuroscience and Biotechnology, Saint Joseph University
2018 - 2019 Master in Education in Medical Sciences, Saint Joseph University

Post Graduate Education and Training

2004 - 2006 Internship, Hotel Dieu de France University Hospital
2006 - 2011 Residency, Radiology, Saint Joseph University, Hotel Dieu de France University Hospital
2011 - 2012 Fellowship, Neuroradiology, Icahn School of Medicine, Mount Sinai Hospital
2012 - 2013 Fellowship, Pediatric Neuroradiology, Harvard Medical School, Boston Children's Hospital

Medical Licensures

2011 Inactive, New York (Limited Permit)
2012 Inactive, Massachusetts (Limited License)
2020 Active, Maryland

Employment History

Academic Appointments

2014-2019 Clinical Instructor, Radiology, Saint Joseph University School of Medicine
2019-2020 Assistant Professor, Radiology, Saint Joseph University School of Medicine
2020-2021 Assistant Professor, Radiology, University of Maryland School of Medicine

Professional Society Membership

2007-present General Member, Lebanese Society of Radiology
2007-present General Member, French Society of Radiology
2011-present General Member, American Society of Neuroradiology
2019-present General Member, American Society of Pediatric Neuroradiology

Honors And Awards

1999 Highest Honors, French Baccalaureates (biology series)
2006 First Prize Award, Saint Joseph University, awarded for the Doctorate thesis: Anal Sphincter Tear among Primiparous Women after Vaginal Delivery: Prospective study using ultrasound endoscopy to study laceration to the anal sphincter in the post-partum
2013 Summa Cum Laude Award, American Society of Neuroradiology, awarded for the E-poster: Fetal MR Imaging: A Valuable Tool in Evaluation of Fetal Brain Pathology
2019 ASFNR Outstanding Presentation Award, American Society of Neuroradiology, awarded for the oral presentation: Functional MRI study of language organization in left-handed and right-handed trilingual subjects

Clinical Activities

Clinical Expertise

Neuroradiologist and Pediatric Neuroradiologist

Clinical and research focus are in the area of Advanced Imaging, Functional MRI and Tractography

Scope of Clinical Practice:

2013-2020 Doctors Center Radiology, Hamra Lebanon (Private Practice)

- Neuroradiology and Pediatric Neuroradiology

2014-2020 Hotel Dieu de France University Hospital, Teaching Hospital of Saint Joseph University, Beirut Lebanon (Academic Institution)

- Neuroradiology and Pediatric Neuroradiology
Developed the Epilepsy program, the Functional MRI imaging unit
Started and was responsible for the radiology residents Neuroradiology teaching.

2020-2021 University of Maryland. Baltimore, USA

- Neuroradiology, Pediatric Neuroradiology and Pediatric Radiology
Representant of the Neuroradiology section for the Radiology Residency.

Local and National Service

National Service

2018-present Reviewer, *Journal of Computer Assisted Tomography* (3x/yr)

Teaching Service

Medical Student Teaching

2014-2020 Imaging and Neuro anatomy
First year medical students - 4 hours/year

2014-2020 Imaging of Neuro pathology
Third year medical students - 8 hours/year

2019-present Mentor for Medical Thesis, 2 students – 2 contact hours/week

Resident and Fellow Teaching

2014-present Neuroradiology conferences (teaching cases and topic presentations) 1hour/week

2016-2019 Radiology of the Temporal Bone. Temporal Bone Dissection Course at Saint Joseph University Medical School

Publications

Peer-reviewed journal articles

1. **Yazbek S**, Aggarwal A, Simpson D, Som P. Imaging Findings of Atypical Mycobacterial Infection in the Temporal Bone. *Clinical Imaging*. 2012, 10.1016/j.clinimag.2012.02.021
2. **Yazbek S**, Prabhu S P, Connaughton P, Grant P E, Gagoski B. Comparison of an Accelerated 3D Spiral Chemical Shift Imaging and Single Voxel Spectroscopy at 3T in the Pediatric Age Group. *Pediatric Radiology*. 2015, 45:1417–1422.
3. Bteich F, El Khoury L, Nohra G, Trak V, **Yazbek S**, Akiki M. Pituitary Adenoma and Papillary Craniopharyngioma: A Rare Case of Collision Tumor and Review of the Literature. *World Neurosurg*. (2020) 139:63-69. <https://doi.org/10.1016/j.wneu.2020.03.088>

4. **Yazbek S**, Smayra T, Mallak I, Hage S, Sleilaty G, Atat C, Abdel Hay J, Moussa R. Functional MRI Study of Language Organization in Left-handed and Right-handed Trilingual Subjects. *Sci Rep*. 2020 Aug 5;10(1):13165. doi: 10.1038/s41598-020-70167-y.
5. **Yazbek S**, Hage S, Mallak I, Smayra T. Tractography of the Arcuate Fasciculus in Healthy Right-Handed and Left-Handed Multilingual Subjects and Its Relation to Language Lateralization on Functional MRI. *Sci Rep*. 2021 Oct 22;11(1):20936. doi: 10.1038/s41598-021-00490-5.
6. Hostetter J, **Yazbek S**. Postoperative Pharynx and Larynx. *Neuroimaging Clin N Am*. 2022 Feb;32(1):37-53. doi: 10.1016/j.nic.2021.08.009.
7. L.D. Patel, K. Bridgham, J. Ciriello, R. Almadawi, J. Leon, J. Hostetter, **S. Yazbek** and P. Raghavan. PET/MR Imaging in Evaluating Treatment Failure of Head and Neck Malignancies: A Neck Imaging Reporting and Data System–Based Study. *American Journal of Neuroradiology* February 2022, DOI: <https://doi.org/10.3174/ajnr.A7427>.
8. Felefly T, Roukoz C, Fares G, Achkar S, **Yazbeck S**, et al An Explainable MRI-Radiomic Quantum Neural Network to Differentiate Between Large Brain Metastases and High-Grade Glioma Using Quantum Annealing for Feature Selection. *Journal of Digital Imaging* July 2023. DOI:10.1007/s10278-023-00886-x
9. Whalen H, **Yazbek S**. Atretic cephalocele and differential considerations: A small case series. *Neuroradiol J*. 2023 Nov 2:19714009231212367. doi: 10.1177/19714009231212367.

Submitted or In-Revision Peer-reviewed journal articles

Non-peer reviewed journal articles

10. **Yazbek S**, Grant P E. Fetal Brain MRI: Patterned approach and review. *Neurographics*. 2015 September/October; 5(5):181–191; www.neurographics.org

Major Invited Speeches

National

1. **Yazbek S**. Current and New Directions in MRI in Multiple Sclerosis. Continuum Meeting on Multiple Sclerosis and Demyelinating Disease. Lebanese Society of Neurology. Beirut. September 27, 2014.
2. **Yazbek S**. Role of fMRI in the diagnosis and the follow up of the patient suffering from aphasia. Lebanese Speech and Language Therapists Association. Beirut. November 8, 2014.
3. **Yazbek S**. Epilepsy Imaging. Lebanese Society of Radiology. Beirut. November 8, 2014.
4. **Yazbek S**. Fetal Imaging. Lebanese Society of Radiology. Beirut. November 8, 2014.
5. **Yazbek S**. Role of fMRI in preop brain mapping. Lebanese Neurosurgery meeting. 2015.

6. **Yazbek S.** Role of MRI in Hypoxic Ischemic Encephalopathy. Lebanese Society of Radiology. Beirut. November 7, 2015.
7. **Yazbek S.** Role of MRI New Techniques in the Management of Stroke. Lebanese Society of Neurology. Beirut. June 4, 2016.
8. **Yazbek S.** Investigation of Brain Tumors. Lebanese Society of Neurology. Beirut. February 11, 2017.
9. **Yazbek S.** Imaging of the Skull Base. Join meeting of the Lebanese Society of Radiology and the Scientific Association of Litani Physicians. Beirut. March 31, 2017.
10. **Yazbek S.** Radiological Anatomy of the Sinuses and Skull Base. First Lebanese Endoscopic Skull Base Surgery Congress. Beirut. September 22, 2017.
11. **Yazbek S.** Brain tumors: advanced imaging. Lebanese Society of Neurology: continuum meeting on neuro-oncology. Beirut. September 8, 2018.
12. **Yazbek S.** Advances in radiological diagnosis of Posterior Fossa Tumors in Children. Neurosurgical Practice: Advances in the treatment of Posterior Fossa Tumors in Children. Beirut. November 9, 2018.

Proffered Communications

Oral Presentations

1. Mirza N, **Yazbek S**, Sacher M, Tanenbaum L: Model-based Iterative Reconstruction (MBIR-VEO) Allows Further Dose Reductions for Pediatric CT Head Examinations with Higher Spatial Resolution and Reduced Noise over ASIR and FBP Dose-reduces (Oral presentation, American Society of NeuroRadiology ASNR 2012)
2. **Yazbek S**, Prabhu S, Grant P. E. Comparison of an Accelerated 3D spiral CSI and Single Voxel Spectroscopy at 3 Tesla in the Pediatric Age Group (Oral Presentation, American Society of NeuroRadiology ASNR 2013)
3. Abdel Hay J, Atat C, **Yazbek S**, Moussa R. Etude de l'organisation des zones du langage chez des sujets trilingues par IRM fonctionnelle (Oral Presentation, Lebanese Society of Neurosurgery 2018)
4. Abdel Hay J, Atat C, **Yazbek S**, Moussa R. Etude de l'organisation des zones du langage chez des sujets trilingues par IRM fonctionnelle (Poster and flash presentation, SNCLF Société de Neurochirurgie de Langue Française 2018)
5. Atat C, Moussa R, Abdel Hay J, **Yazbek S**. Functional MRI study of language organisation in left-handed and right-handed trilingual subjects (Oral Presentation, American Society of Neuroradiology 2019)
6. **Yazbek S**, Atat C, Abdel Hay J, Moussa R. Functional MRI study of language organisation in left-handed and right-handed trilinguals (Oral Presentation, European College of Radiology 2019)
7. **Yazbek S**, Hajj MA, Mallak I, Kanso F, Abou Jaoude S. Etude pilote : Utilisation de Twitter comme outil d'apprentissage chez les internes de radiologie (Oral Presentation, Journées Françaises de Radiologie 2019)
8. **Yazbek S**, Hage S, Mallak I, Moussa R. Tractography of the Arcuate Fasciculus in Healthy Right-Handed and Left-Handed Trilingual Subjects and Its Relation to Language Lateralization on Functional MRI (Oral Presentation, American Society of Neuroradiology 2020)

Posters

1. Slaba S, **Yazbek S**. Stiffened triple axial catheterization of tortuous vessels. (Electronic Poster, Journées

- Françaises de Radiologie 2010)
2. Pawha P, **Yazbek S**, Som P. Hyperplasia of Re-implanted Intramuscular Parathyroid Tissue Identified by Dynamic CT (Excerpta, American Society of NeuroRadiology ASNR 2012)
 3. **Yazbek S**, Tanenbaum L. Combined Whole-brain Time Resolved CT Angiography and Perfusion CT in Evaluation of Moyamoya Disease (E-poster, American Society of NeuroRadiology ASNR 2012)
 4. Jordaan M, **Yazbek S**, Connolly S, Barnewolt C, Robson C, Grant P. E, Estroff J, Prabhu S. Role of MRI in Fetal Ocular Anomalies: What do you "See"? (Oral Presentation, European Society of Pediatric Radiology ESPR 2013)
 5. Jordaan M, **Yazbek S**, Prabhu S. Spinal serendipity – common and unusual incidental findings in paediatric lumbar spine MRI (Poster, European Society of Pediatric Radiology ESPR 2013)
 6. Allmendinger A, Viswanadhan N, **Yazbek S**, Prabhu S. Pediatric leukodystrophies: Utilizing diffusion weighted imaging (DWI) and MR spectroscopy to refine the conceptual approach (Electronic Educational Exhibit, American Society of NeuroRadiology ASNR 2013)
 7. **Yazbek S**, Grant P.E. Fetal MRI: A Valuable Tool in Evaluation of Fetal Brain Pathology (Electronic Educational Exhibit, American Society of NeuroRadiology ASNR 2013)
 8. Atat C, **Yazbek S**, Haddad A, Abi Khalil S, Slaba S, Robson C. Congenital Hearing Loss: Hear the Signs (Electronic Educational Exhibit, American Society of NeuroRadiology, ASNR 2016)
 9. Smayra T, Atat C, **Yazbek S**, Moussa R. Apport de l'impression 3D dans la cranioplastie (Electronic Poster, JFR 2017)
 10. Atat C, Haddad A, Smayra T, **Yazbek S**. Surdit e cong nitale : Soyons tout yeux tout oreilles! (Electronic Poster, JFR 2017)
 11. Atat C, Smayra T, Ghauche J, **Yazbek S**. Joining The Neuroradiology Community on Twitter: Why Bother and How To Do it? (Electronic Exhibit, ASNR 2018)
 12. **Yazbek S**, Atat C, Smayra T, Yazbek J, Aoun N. Rejoindre la Twittosphere de Radiologie: En quoi est-ce un plus primordial? Comment le faire? (Electronic Poster, JFR 2018)
 13. Abdel Hay J, Atat C, **Yazbek S**, Moussa Ronald. Etude de l'organisation des zones du langage chez des sujets trilingues par IRM fonctionnelle (Poster and flash presentation, SNCLF Soci t  de Neurochirurgie de Langue Fran aise 2018)
 14. **Yazbek S**, Ghauche J. Tumeurs spinales: de la localisation au diagnostic (Journ es Fran aises de Radiologie 2019)
 15. **An Interpretable Quantum Neural Network to differentiate between Large Brain Metastases and High Grade Glioma using Quantum-Informed MRI Radiomic Feature Selection. Canadian Association of Radiation Oncology Annual Scientific Meeting 2022.**
 16. Hanna M, Kobaiter-Maarrawi S, Yazbeck S, El Chami M, Gebrael Matta G, Maarrawi J. Neural correlates of motor imagery in children with DCD. 14th International Development Coordination Disorder Conference. DCD in Real World. The University of British Columbia, Vancouver, Canada. 6-10 July 2022.
 17. Ciriello J, Yazbek S. Surface and Functional Anatomy of the brain. JFR 2022

