

CURRICULUM VITAE

KRISTEN W. YEOM, M.D.

I. PERSONAL INFORMATION

Kristen W. Yeom, MD
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Stanford University School of Medicine
Department of Radiology
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II. ACADEMIC HISTORY

A. EDUCATION

1997, BS Biomedical Sciences, University of Michigan, Ann Arbor, MI
2001, MD Doctor of Medicine, University of Michigan Medical School, Ann Arbor, MI

B. POST-DOCTORAL AND RESIDENCY/FELLOWSHIP TRAINING

2001-2002 Internship, Oakwood Hospital, Dearborn MI
2002-2006 Diagnostic Radiology Residency, UCLA Medical Center, Los Angeles, CA
2006-2008 Diagnostic Neuroradiology Fellowship, Stanford University, Stanford, CA

C. STUDENT/POST-DOCTORAL RESEARCH FELLOWSHIPS

7/1998-6/1999 Immunology and Cell Biology at Kresge Hearing Research Institute: Medical Student Research Scholar (University of Michigan Student Biomedical Research Program)
4/2008-6/2008 Visiting Research Fellow at Children's Hospital Los Angeles
Project: perfusion and diffusion MRI of pediatric diffuse intrinsic pontine glioma

D. CURRENT LICENSURE AND CERTIFICATION

Date Issued	Licenses and certification
2003	California Medical License, Active since 6/4/2003
2006	American Board of Radiology: General Diagnostic Radiology
2008	California Radiology X-Ray Supervisor and Operator
2008	American Board of Radiology: Diagnostic Radiology, Subspecialty Neuroradiology

III. ACADEMIC AND PROFESSIONAL APPOINTMENTS

07/21/2008-12/30/2016	Assistant Professor (MCL), Department of Radiology, Stanford University School of Medicine
11/21/2016 – Present	Associate Director of MRI at Lucile Packard Children's Hospital at Stanford
11/21/2016 – Present	Director Pediatric Neuroradiology, Dept Radiology, Stanford University School of Medicine
01/01/2017 – 12/31/2021	Associate Professor (MCL), Department of Radiology, Stanford University School of Medicine
06/01/2020 – Present	Associate Director, Artificial Intelligence in Medical Imaging (AIMI), Academic Partnerships

IV. HONORS AND AWARDS

1993-1996 Class Honors and Deans' List (all semesters), University of Michigan

- 1993-1996 *James B. Angell Scholar* for undergraduate studies, University of Michigan
- 1994 *Philips Classical Prize* in Excellence in Latin, University of Michigan
- 1994 William J Branstrom Prize for Academic Excellence, University of Michigan
- 1995 *Phi Kappa Phi* Honor Society
- 1996 *Phi Beta Kappa* Honor Society
- 1997 Undergraduate graduation with Magna Cum Laude, University of Michigan
- 1999 Award of Research Excellence: Student Biomedical Research Program, University of Michigan Medical School
- 2000 Association for Research in Otolaryngology Travel Award for medical students with outstanding scientific paper submission
- 2010 *Society for Pediatric Radiology* Caffey Award: Best Scientific Papers (**KW Yeom et al. AJR Am J Roentgenol May; 200 (5): W437-43; S Holdsworth, **K Yeom**, et al. *AJNR Am J Neuroradiol* 2011 Aug; 32(7):1274-9; SJ Holdsworth, M Aksoy, RD Newbould, **K Yeom**, et al. *J. Magnetic Resonance Imaging* 2012 Oct; 36 (4): 961-71; SJ Holdsworth, **KW Yeom** et al. *J Magnetic Resonance Imaging* 2015 May; 41(5): 1447-53)**
- 2012 Scientific work on application of diffusion tensor tractography for pre-surgical evaluation of children with optic pathway glioma (Lober, **Yeom. J Neurosurg Pediatr** 2012 Oct; 10(4):273-80) awarded the Cover Feature article of the *J Neurosurg Pediatr* Oct 2012 for its potential for reducing risk for blindness during surgical resection of optic pathway tumors.
- 2013 Nominated for *Association of University Radiologists (AUR)-Philips Academic Faculty Development Program*
- 2014 Scientific work on skull base chordoma selected as a feature article in the *AJNR News Digest* July 2014 edition (**Yeom et al. AJNR Am J Neuroradiol.** 2013 May; 34 (5): 1056- 61)
- 2014 *American Society of Neuroradiology* Nomination for 2014 2nd Annual Lucien Levy Best Research Article Award (S Perreault, **KW Yeom. AJNR Am J Neuroradiol** 2014 Jul; 35 (7): 1263-9)
- 2015 Scientific work on carbon dioxide laser for corpus callosotomy in pediatric population (Choudri et al. *J Neurosurg Pediatr* 2015 Mar; 15(3): 321-7) awarded the Cover Feature article of the *J Neurosurg Pediatr* Oct 2015 for surgical implications and application of diffusion tensor MRI for surgical navigation in children with epilepsy
- 2015 Scientific works on ASL perfusion of brain tumors and hydrocephalus selected as feature articles on the *AJNR News Digest* Sept-Oct 2015 edition (**Yeom et al. AJNR** 2014 Feb 35(2): 395-401; **Yeom et al. AJNR Am J Neuroradiol** 2014; Jul 35(7): 1433-9)
- 2017 Scientific work on perfusion and diffusion changes in normal pediatric brain as a feature article in the *AJNR News Digest* June 2017 edition (**Yeom et al. AJNR Am J Neuroradiol.** 2016 Sep; 37 (9): 1738-44)
- 2017 Scientific work on radiogenomics of pediatric medulloblastoma as a feature article in the *AJNR News Digest* Nov/Dec 2017 edition (Perreault, **Yeom. AJNR Am J Neuroradiol** 2014 Jul; 35 (7): 1263-9)
- 2018 Scientific work Arterial Spin Labeled Perfusion of Pediatric Brain Tumors as a feature article in the *AJNR News Digest* April/May 2018 edition (**Yeom et al. AJNR Am J Neuroradiol** 2014 Feb; 35(2):395-401)
- 2018 2018 *American Brain Tumor Association Lucien Rubinstein Award* for mentorship of medical student, Katie Shpanskaya
- 2019 *Stewart B. Dunsker Award* for scientific work entitled Deep-Learning Artificial Intelligence Model for Automated Detection of Cervical Spine Fracture on Computed Tomography (CT) Imaging *American Association of Neurological Surgeons (AANS)* 2019 Annual Meeting
- 2019 Scientific work on arterial spin labeling perfusion changes of the frontal lobes in children with posterior fossa syndrome (Yecies, **Yeom. J Neurosurg Pediatr** 2019 Aug 2: 1-7) awarded the Cover Feature article of the *J Neurosurg Pediatr* Nov 2019
- 2020 Scientific work, Decoding and Systematization if Medical Imaging Features of Multiple Human Malignancies (Wang L et al.) selected as Cover of *Radiology: Imaging Cancer* Vol 2, No 5 (<https://pubs.rsna.org/toc/imaging-cancer/2/5>)
- 2021 Scientific work on AI for cerebral ventricle segmentation (Quon, **Yeom. J Neurosurg Pediatr** 2021 Feb) awarded the Cover Feature article of the *J Neurosurg Pediatr* Feb 2021

V. SCHOLARLY PUBLICATIONS

PEER-REVIEWED ORIGINAL PUBLICATIONS

A. Peer-Reviewed Original Scientific Works - Published

1. **K Yeom**, J Gray, TS Nair, HA Arts, S Telian, MJ Disher, H El-Kashlan, RT Sataloff, SG Fisher, TE Carey: Antibodies to HSP-70 in Normal Donors and Autoimmune Hearing Loss Patients. *Laryngoscope* 2003 October; 113: 1770-1776
2. M Brandt, W Wahl, **K Yeom**, E Kazerooni, S Wang. Computed Tomographic Scanning Reduces Cost and Time of Complete Spine Evaluation. *J Trauma* 2004 May; 56(5): 1022-6
3. M Auerbach, **K Yeom**, J Park, J Czernin. Standard PET/CT Chest Image Acquisition during Shallow Breathing is Inadequate for Comprehensive Staging of the Lung in Cancer Patients. *J Nuc Med* 2006 Feb; 47: 298- 301
4. B Halpern, **K Yeom**, B Fueger, J Czernin, M Allen-Auerbach. Evaluation of Suspected Local Recurrence in Head and Neck Cancer: A Comparison between PET and PET/CT for Biopsy Proven Lesions. *European Journal of Radiology* 2007 May, 62 (2): 199-204
5. B Fueger, **K Yeom**, J Czernin, JW Sayre, ME Phelps, MS Allen-Auerbach. Comparison of CT, PET, and PET/CT for Staging of Patients with Indolent Non-Hodgkin's Lymphoma. *Mol Imaging Biol.* 2009 Jul-Aug; 11(4): 269-74
6. BC Mobley, JK McKenney, CD Bangs, K. Callahan, **KW Yeom**, MG Hayden, AM Cherry, MS Edwards, PG Fisher, H Vogel. Loss of SMARCB1/INI1 Expression in Poorly Differentiated Chordomas. *Acta Neuropathologica* 2010 Dec; 120(6):745-53
7. E Gyang#, **K Yeom**, C Hoppe, S Partap, M Jeng: Effect of Chronic Red Cell Transfusion Therapy on Vasculopathies and Silent Infarcts in Patients with Sickle Cell Disease. *Am J Hematology* 2011 Jan; 86(1):104-6
Medical student
8. S Holdsworth, **K Yeom**, S Skare, PD Barnes, R Bammer. Clinical Application of Readout-Segmented (RS)-EPI for Diffusion Weighted Imaging in Pediatric Brain. *AJNR Am J Neuroradiol* 2011 Aug; 32(7):1274-9
9. IM Loe, B Luna, I Bledsoe, **KW Yeom**, BL Fritz, HM Feldman. Oculomotor Assessments of Executive Function in Preterm Children. *J Pediatrics* 2012 Sept; 161 (3): 427-433
10. H. Feldman, E. Lee, I. Loe, **KW Yeom**, K. Grill-Spector, B. Luna. White Matter Microstructure on Diffusion Tensor Imaging is Associated with Conventional MRI Findings and Cognitive Function in Adolescents born Preterm. *Developmental Medicine & Child Neurology* 2012 Sept; 54 (9): 809-14
11. SJ Holdsworth, M Aksoy, RD Newbould, **K Yeom**, AT Van, MB Ooi, PD Barnes, R Bammer, S Skare. Diffusion tensor imaging (DTI) with retrospective motion correction for large-scale pediatric imaging. *J. Magnetic Resonance Imaging* 2012 Oct; 36 (4): 961-71
12. RM Lober, R Guzman, MSB Edwards, **KW Yeom**. Application of Diffusion Tensor Tractography in Pediatric Optic Glioma*. *J Neurosurg Pediatr* 2012 Oct (4): 273-80
*Diffusion Tensor Tractography imaging of this manuscript selected for cover of the *J Neurosurg Pediatr* 2012 Oct Edition
13. H Feldman, ES Lee, JD Yeatman, **KW Yeom**. Language and Reading Skills in School-Aged Children and Adolescents Born Preterm are Associated with White Matter Properties on Diffusion Tensor Imaging. *Neuropsychologia* 2012 Dec; 50(14):3348-62
14. **KW Yeom**, BC Mobley, RM Lober, JB Andre, S Partap, H. Vogel, PD Barnes. Distinctive MRI Features of Pediatric Medulloblastoma Subtypes *AJR Am J Roentgenol* 2013 Apr; 200(4):895-903

15. **KW Yeom**, RM Lober, BC Mobley, G Harsh, H Vogel, R Allagio, M Calderone, M Pearson, MSB. Edwards, NJ Fischbein. Diffusion weighted MRI Distinguishes Skull Base Chordoma and Chondrosarcoma. *AJNR Am J Neuroradiol* 2013 May; 34 (5): 1056-61
16. A Khurana, CA Eisenhut, W.Wan, KB Ebrahimi, C Patel, JM O'Brien, **K Yeom**, HE Daldrup-Link. Comparison of the Diagnostic Value of MR Imaging and Ophthalmoscopy for the Staging of Retinoblastoma. *Eur Radiology* 2013 May; 23(5):1271-80
17. **KW Yeom**, SJ Holdsworth, AT Van, S Skare, RM Lober, PD Barnes, R Bammer. Comparison of Readout-Segmented (RS)-EPI and Single-Shot EPI in Clinical Application of Diffusion Weighted Imaging in Pediatric Brain. *AJR Am J Roentgenol* 2013 May; 200 (5): W437-43
18. **KW Yeom**, RM Lober, JB Andre, PG Fisher, PD Barnes, MSB Edwards, S Partap. Prognostic Role for Diffusion Weighted Imaging of Pediatric Optic Pathway Glioma. *J Neurooncol* 2013 Jul; 113(3):479-83
19. **KW Yeom**, RM Lober, PD Barnes, CJ Campen. Reduced Cerebral Arterial Spin Labeled Perfusion in Children with Neurofibromatosis 1. *AJNR Am J Neuroradiol* 2013 Sep; 34(9):1823-8
20. S Soman#, SJ Holdsworth, PD Barnes, J Rosenberg, JB Andre, R Bammer, **KW Yeom**. Improved T2* Imaging Without Increase in Scan Time: SWI-Processing of 2D GRE. *AJNR Am J Neuroradiol* 2013 Nov; 34(11): 2092-7
#Fellow trainee
21. **KW Yeom**, RM Lober, S Partap, N Telischak, R Tsolinas, PD Barnes, MS Edwards. Increased focal hemosiderin deposition in pediatric medulloblastoma patients receiving radiotherapy at a later age. *J Neurosurg Pediatr* 2013 Nov; 12(5): 444-51
22. S Perreault, RM Lober, AS Carret, G Zhang, L Hershon, JC Décarie, **K Yeom**, H Vogel, PG Fisher, S Partap. Relapse patterns in pediatric embryonal central nervous system tumors. *J Neurooncol* 2013 Nov; 115(2): 209-15
23. **KW Yeom**, LA Mitchell, RM Lober, PD Barnes, H Vogel, PG Fisher, MS Edwards. Arterial Spin Labeled Perfusion of Pediatric Brain Tumors. *AJNR Am J Neuroradiol* 2014 Feb; 35(2):395-401
24. S Perreault#, RM Lober, S Cheshier, S Partap, MR Edwards, **KW Yeom**. Time-Dependent Structural Changes of the Dentatohalamic Pathway in Children Treated for Posterior Fossa Tumor. *AJNR Am J Neuroradiol* 2014; 35(4): 803-7
#Fellow trainee
25. S Perreault, RM Lober, AS Carret, G Zhang, L Hershon, JC Decarie, **KW Yeom**, H Vogel, PG Fisher, S Partap. Surveillance imaging in children with malignant CNS tumors: What is our return on investment/imaging? *J Neurooncol* 2014 Feb; 116(3): 617-23
26. S Soman#, SJ Holdsworth, S Skare, JB Andre, AT Van, M Aksoy, R Bammer, J Rosenberg, PD Barnes, **KW Yeom**. Effect of number of acquisitions in diffusion tensor imaging of the pediatric brain: optimizing scan time and diagnostic experience. *J Neuroimaging* 2015 Mar-Apr; 25(2): 296-302
#Fellow trainee
27. RM Lober#, YJ Cho, Y Tang, PD Barnes, MS Edwards, H Vogel, PG Fisher, M Monje, **KW Yeom**. Diffusion-weighted MRI derived apparent diffusion coefficient identifies prognostically distinct subgroups of pediatric diffuse intrinsic pontine glioma. *J Neurooncol* 2014; Mar 117(1): 175-82
#Resident trainee
28. L Weizman, LB Sira, L Joskowicz, DL Rubin, **KW Yeom**, S Constantini, B Shofty, DB Bashat. Semi-automatic segmentation and follow-up of multi-component low-grade tumors in longitudinal brain MRI studies. *Medical Phys* 2014 May; 41(5):052303

29. SJ Holdsworth, **KW Yeom**, MU Antonucci, JB Andre, J Rosenberg, M Straka, NJ Fischbein, G Zaharchuk, ME Moseley, S Skare. Diffusion-weighted Imaging (DWI) with dual-echo echo-planar imaging (EPI) for better sensitivity to acute stroke. *AJNR Am J Neuroradiol* 2014 Jul; 35(7): 1293-302
30. **KW Yeom**, RM Lober, A Alexander, SH Cheshier, MS Edwards. Hydrocephalus decreases arterial-spin labeled cerebral perfusion. *AJNR Am J Neuroradiol* 2014; Jul 35(7): 1433-9
31. S Perreault#, V Ramaswamy, AS Achrol, K Chao, TT Liu, D Shih, M Remke, S Schubert, E Bouffet, PG Fisher, S Partap., H Vogel, MD Taylor, YJ Cho*, **KW Yeom**. MRI surrogates for molecular subgroups of medulloblastoma. *AJNR Am J Neuroradiol* 2014 Jul; 35 (7): 1263-9 *co-senior author, #Fellow trainee
32. Y Leitner, KE Travis, M Ben-Shachar, **KW Yeom**, HM Feldman. Tract profiles of the cerebellar white matter pathways in children and adolescents. *Cerebellum* 2015 Dec; 14(6): 613-23
33. **KW Yeom**, RM Lober, MD Nelson, A Panigrahy, S Bluml. Citrate concentrations increase with hypoperfusion in pediatric diffuse intrinsic pontine glioma. *J Neurooncol* 2015 Apr; 122(2): 383-9
34. SJ Holdsworth, **KW Yeom**, ME Mosely, S Skare. Fast susceptibility-weighted imaging (SWI) with 3D short-axis propeller (SAP)-EPI. *J Magnetic Resonance Imaging* 2015 May; 41(5): 1447-53
35. CH Hsu#, RM Lober, MD Li, S Partap, PA Murphy, PD Barnes, PG Fisher, **KW Yeom**. Decreased tumor apparent diffusion coefficient correlates with objective response of pediatric low-grade glioma to bevacizumab. *J Neurooncol* 2015 May; 122(3): 491-6
#Fellow trainee
36. **KW Yeom**, M Straka, M Iv, ME Moseley, PD Barnes, S Skare, SJ Holdsworth. Intensity-corrected dual-echo echo-planar imaging (DE-EPI) for improved pediatric brain diffusion imaging. *PLoS One* 2015 Jun 12; 10(6):e0129325
37. J Rose, K Cahill-Rowley, R Vassar, **KW Yeom**, X Stecher, D Stevenson, S Hintz, N Barnea-Goraly. Neonatal brain microstructure correlates of neurodevelopment and gait in preterm children 18-22 months of age: an MRI and DTI study. *Pediatr Res* 2015 Dec; 78(6): 700-8
38. DA Meiklejohn, CE Corrales, BM Boldt, JD Sharon, **KW Yeom**, JP Carey, NH Blevins. Pediatric Semicircular Canal Dehiscence: Radiographic and Histologic Prevalence, with Clinical Correlation *Otol Neurotol* 2015 Sep; 36(8): 1383-9
39. H Itakura, AS Achrol, LA Mitchell, JJ Loya, T Liu, EM Westbroek , AH Feroze , S Rodriguez , S Echegaray , TD Azad, **KW Yeom**, S Napel, DL Rubin, SD Chang, GR Harsh IV, O Gevaert. Magnetic resonance image features identify glioblastoma phenotypic subtypes with distinct molecular pathway activities. *Science Translational* 2015 Sep 2; 7 (303): 303ra138
40. TT Liu, AS Achrol, LA Mitchell, WA Du, JJ Loya, SA Rodriguez, A Feroze, EM Wesbroek, **KW Yeom**, JM Stuart, GR Harsh IV, DL Rubin. Computational identification of tumor anatomic location associated with survival in tow large cohorts of human primary glioblastomas. *Am J Neuroradiol* 2016 Apr; 37 (4): 621-8
41. ND Forkert, MD Li, RM Lober, **KW Yeom**. Gray matter growth is accompanied by increasing blood flow and decreasing apparent diffusion coefficient during childhood. *AJNR Am J Neuroradiol* 2016 Apr 37(9): 1738-44
42. J Tu, HM Do, V Patel, **KW Yeom**, J MC Teng. Sclerotherapy for lymphatic malformations of the head and neck in the pediatric population. *J Neurointerv Surg* 2016 Oct; 9(10): 1023-1026
43. MD Li#, ND Forkert, P Kundu, C Ambler, RM Lober, TC Burns, PD Barnes, IC Gibbs, GA Grant, PG Fisher, SH Cheshier, CJ Campen, M Monje, **KW Yeom**. Brain perfusion and diffusion abnormalities in children treated for posterior fossa brain tumors. *J Pediatr* 2017 Jun; 185:173-180

#Medical student

44. EM Thompson, ST Keir, T Venkatraman, C Lascola, **KW Yeom**, AB Nixon, Y Liu, D Picard, M Remke, DD Bigner, V Ramaswamy, MD Taylor. The role of angiogenesis in Group 3 medulloblastoma pathogenesis and survival. *Neuro Oncol* 2017 Sep 1; 19(9):1217-1227
45. P Kundu, MD Li, BY Durkee, SM Hiniker, K Bush; R von Eyben, ML Monje, **KW Yeom**, SS Donaldson, IC Gibbs. Chemoradiation Impairs Normal Developmental Cortical Thinning in Medulloblastoma. *J Neurooncol* 2017 Jun 133(2):429-434
46. AJ Theruvath, A Ilivitzki, A Muehe, J Theruvath, P Gulaka, C Kim, S Luna-Fineman, KM Sakamoto, **KW Yeom**, P Yang, M Moseley, F Chan, HE Daldrup-Link. A PET/MR imaging approach for the targeted integrated assessment of chemotherapy-induced brain, heart, and bone injuries in pediatric cancer survivors: a pilot study. *Radiology* 2017 Dec; 285(3): 971-979
47. SJ Holdsworth, SJ Macpherson, **KW Yeom**, M Wintermark, G Zaharchuk. Clinical evaluation of silent T1-weighted MRI and silent MR angiography of the brain. *Am J Roentgenol* 2018 Feb; 210(2): 404-411
48. J Elbers, D Armstrong, S Benseler, N Dlamini, G Steinberg, **KW Yeom**. The utility of collateral as a biomarker in pediatric unilateral intracranial arteriopathy. *Ped Neurol* 2018 Jan; 78:27-34
49. K Schadl, R Vassar, K Cahill-Rowley, **KW Yeom**, DK Stevenson, J Rose. Prediction of cognitive and motor development in preterm children using exhaustive feature selection and cross-validation of near-term white matter microstructure. *Neuroimage Clin* 2017 Nov 29; 17: 667-679
50. KJ Miller, S Berendsen, T Seute, **K Yeom**, MH Gephardt, GA Grant, PA Robe. Fractal structure in the volumetric contrast enhancement of malignant gliomas as a marker for oxidative metabolic pathway gene expression. *Transl Cancer Res* 2017; 6 (6): 1275-82
51. T Glozman#, L Brukert, F Pestilli, DW Yecies, L Guibas*, **KW Yeom***. Framework for shape analysis on white matter bundles. *Neuroimage* 2018 Feb 15; 167:466-477
*co-senior authors, #Graduate student
52. J Santoro#, ND Forkert, Q Yang, S Pavitt, SJ MacEachern, ME Moseley, **KW Yeom**. Brain diffusion abnormalities in children with tension and migraine type headaches. *AJNR Am J Neuroradiol* 2018 May; 39(5): 935-941
#Resident trainee
53. J Pan#, JL Quon, E Johnson, B Lanzman, A Chukus, AL Ho, MS Edwards, GA Grant, **KW Yeom**. Rapid-sequence brain magnetic resonance imaging for Chiari I abnormality. *J Neurosurg Pediatr* 2018 Aug;22(2):158-164
#Medical student
54. DJ O'Shea, P Kalanithi, EA Ferenczi, B Hsueh, C Chandrasekaran, W Goo, I Diester, C Ramakrishnan, MT Kaufman, SI Ryu, **KW Yeom**, K Deisseroth*, and KV Shenoy*. Development of an optogenetic toolkit for neural circuit dissection in squirrel monkeys. *Sci Rep* 2018 Apr 30; 8(1): 6775
*co-senior authors
55. I Terem, W Ni, M Goubran, MS Rahimi, G Zaharchuk, **KW Yeom**, ME Moseley, K Mehmet, SJ Holdsworth. Revealing sub-voxel motions of brain tissue using phase-based amplified MRI (aMRI) *Magn Reson Med* 2018 Dec;80(6):2549-2559
56. D Yecies#, N Fogel, MSB Edwards, GA Grant, **KW Yeom***, SH Cheshier*. Safety of dynamic MRI of the cervical spine in children performed without neurosurgical supervision. *World Neurosurg* 2018 Aug;116:e1188-e1193
*co-senior authors, #Resident trainee

57. M Iv, O Choudhri, RL Dodd, SS Vasanawala, MT Alley, ME Moseley, SJ Holdsworth, GA Grant, SH Cheshier*, **KY Yeom***. High-resolution 3D volumetric contrast-enhanced MR angiography with a blood pool agent (ferumoxytol) for diagnostic evaluation of pediatric brain arteriovenous malformation. *J Neurosurg Pediatr* 2018 Sep; 22(3):251-260
*co-senior authors
58. M Iv, P Samghabadi, SJ Holdsworth, A Gentles, P Rezaii, G Harshm G Li, R Thomas, M Moseley, HE Daldrup-Link, H Vogel, M Wintermark, S Cheshier, **KW Yeom**. Quantification of Macrophages in High Grade Gliomas Using Ferumoxytol-enhanced MRI: A Pilot Study. *Radiology* 2019 Jan; 290(1):198-206
59. D Yecies#, TD Azad, R Esparza, J Quon, N Forkert SJ MacEachern, L Bruckert, M Maleki, MSB Edwards, GA Grant, **KW Yeom**. Long-term supratentorial radiological effects of surgery and local radiation in children with Infratentorial ependymoma. *World Neurosurg* 2019 Feb;122:e1300-e1304
#Resident trainee
60. P Rajpurkar, J Irvin, RL Ball, K Zhu, B Yang, H Mehta, T Duan, D Ding, A Bagul, CP Langlotz, BN Patel, **KW Yeom**, K Shpanskaya, FG Blankenberg, J Seekins, TJ Amrhein, DA Mong, SS Halabi, EJ Zucker, AY Ng, MP Lungren. Deep learning for chest radiograph diagnosis: A retrospective comparison of the CheXNeXt algorithm to practicing radiologists. *PLoS Med* 2018 Nov 20;15(11):e1002686
61. Bien N, Rajpurkar P, Ball RL, Irvin J, Park A, Jones E, Bereket M, Patel BN, **Yeom KW**, Shpanskaya K, Halabi S, Zucker E, Fanton G, Amanatullah DF, Beaulieu CF, Riley GM, Stewart RJ, Blankenberg FG, Larson DB, Jones RH, Langlotz CP, Ng AY, Lungren MP. Deep-learning assisted diagnosis for knee magnetic resonance imaging: Development and retrospective validation of MRNet. *PLoS Med* 2018 Nov 27;15(11):e1002699
62. M Iv, M Zhou, K Shpanskaya, S Perreault, Z Wang, E Tranvinh, B Lanzman, S Vajapeyam, NA Vitanza, PG Fisher, YJ Cho, S Laughlin, V Ramaswamy, MD Taylor, SH Cheshier, GA Grant, T Young Poussaint, O Gevaert, **KW Yeom**. MR Imaging-based radiomic signatures of distinct molecular subgroups of medulloblastoma. *Am J Neuroradiol (AJNR)* Dec 2019 Jan; 40(1): 154-161
63. JL Quon#, LH Kim, RM Lober, GA Grant, G Steinberg, **KW Yeom**. Arterial spin-labeling changes after revascularization surgery in pediatric moyamoya disease. *J Neurosurg Peds* 2019 Feb 8; 23 (4):486-492
#Resident trainee
64. L Bruckert, K Shpanskaya, EM McKenna, LR Borchers, M Yablonski, Tal Blecher, M Ben-Shachar, KE Travis, HM Feldman, **KW Yeom**. Age-dependent white matter characteristics of the cerebellar peduncles from infancy through adolescence. *Cerebellum* 2019 Jun; 18(3): 372-387
65. LH Kim#, EH Lee, M Hersher, M Aksoy, S Skare, GA Grant, MS Edwards, SJ Holdsworth, **KW Yeom**. Reduced field-of-view echo planar diffusion tensor MRI for pediatric spinal tumors. *J Neurosurg Spine* 2019 Jul 5; 1-9
#Medical student
66. D Yecies, K Shpanskaya, M Maleki, L Bruckert, SH Cheshier, D Hong, MSB Edwards, GA Grant, **KW Yeom**. Arterial spin labeling perfusion changes of the frontal lobes in children with posterior fossa syndrome. *J Neurosurg Pediatr* 2019 Aug 2: 1-7
67. Y Huang, TG Singer, M Iv, B Lanzman, S Nair, JA Stadler III, J Wang, MS Edwards, GA Grant, SH Cheshier, **KW Yeom**. Ferumoxytol-enhanced MRI for surveillance of pediatric cerebral arteriovenous malformations. *J Neurosurg Pediatr* 2019 Jul 19: 1-8
68. Y Huang, D Yecies, L Bruckert, AL Ho, LH Kim, L Fornoff, JJ Parker, M Wintermark, B Porter, **KW Yeom**, CH Halpern, GA Grant. Stereotactic laser ablation for complete callosotomy. *J Neurosurg Pediatr* 2019 Aug 2: 1-9

69. D Yecies#, R Jabarkheel, M Han, YH Kim, L Bruckert, K Shpanskaya, A Perez, MS Edwards, GA Grant, **KW Yeom**. Posterior fossa syndrome and increased mean diffusivity in the olivary bodies. *J Neurosurg Pediatr Peds* 2019 Jul 26: 1-6
70. A Park#, C Chute, P Rajpurkar, J Lou, RL Ball, Katie Shpanskaya, R Jabarkheel, LH Kim, E McKenna, J Tseng, J Ni, F Wishah, F Wittber, DS Hong, TJ Wilson, S Halabi, BN Patel, MP Lungren, AY Ng*, **KW Yeom***. Deep-learning-assisted diagnosis of cerebral aneurysms using the HeadXNet Model. *JAMA Network Open* 2019 Jun 5;2(6):e195600
* Co-senior authors, #Graduate student
71. H Wei, S Cao, Y Zhang, X Guan, F Yan, **KW Yeom**, C Liu. Learning-based single-step quantitative susceptibility mapping reconstruction without brain extraction. *Neuroimage* 2019 Nov 15; 202:116064
72. K Cahill-Rowley, K Schadl, R Vassar, **KW Yeom**, DK Stevenson, J Rose. Prediction of gain impairment in toddlers born preterm from near-term brain microstructure assessed with DTI, using exhaustive feature selection and cross-validation. *Frontiers Hum Neurosci* 2019 Sep 18; 13:305
73. K Shpanskaya#, JL Quon, RM Lober, SH Cheshier, MSB Edwards, GA Grant, **KW Yeom**. Optic nerve DTI for evaluation of pediatric hydrocephalus. *Neurosurg Focus* 2019 Dec 1; 47(6): E16
#Medical student
74. JG Parker, EE Diller, S Cao, JT Nelson, **K Yeom**, C Ho, RM Lober. Statistical multiscale mapping of IDH1, MGMT, and microvascular proliferation in human brain tumors from multiparametric MR and spatially registered core biopsy. *Sci Rep* 2019 Nov 19; 9(1):17112
75. J Ni#, K Shpanskaya, M Han, W Kuo, **KW Yeom***, DS Wang*. Deep-Learning for Automated Classification of IVC Filter Types on Radiographs. *J Vasc Interv Radiol* 2020 Jan; 31(1):66-73
* Co-senior authors, #Resident trainee
76. R Jabarkheel#, N Amayiri, D Yecies, Y Huang, S Toescu, L Nobre, DJ Mabbott, SV Sudhakar, P Malik, S Laughlin, M Swaidan, M Al Hussaini, A Musharbash, G Chacko, LG Matthew, PG Fisher, D Hargrave, U Bartels, U Tabori, SM Pfister, K Aquilina, MD Taylor, GA Grant, E Bouffet, K Mankad, **KW Yeom***, V Ramaswamy*. Molecular correlates of cerebellar mutism syndrome in medulloblastoma. *Neuro Oncol* 2020 Feb 20; 22(2): 290-297
* Co-senior authors, #Medical student
77. SJ MacEachern, SD Santoro, C Hahn, Z Madress, X Stecher, MD Li, RM Lober, JS Hahn, **KW Yeom**, ND Forkert. Children with epilepsy demonstrate microstructural changes in the thalamus and putamen. *Neuroradiology* 2020 Mar; 62(3): 389-397
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79. AY Feng, AL Ho, LH Kim, ES Sussman, AV Pendharkar, M Iv, **KW Yeom**, CH Halpern, GA Grant. Utilization of novel high-resolution, MRI-based vascular imaging modality for preoperative stereoelectroencephalography planning in children: a technical note. *Stereotactic and Functional Neurosurgery* 2020; 98(1): 1-7
80. JL Quon, LH Kim, SJ MacEachern, M Maleki, G Steinberg, V Madhugiri, MSB Edwards, GA Grant, **KW Yeom**, ND Forkert. Early diffusion magnetic resonance imaging changes in normal-appearing brain in pediatric moyo moyo disease. *Neurosurgery* 2020 Apr 1; 86(4):530-537
81. J Zheng, J Frankovich, E McKenna, NC Rowe, NN Ng, LT Tam, PK Moon, J Gao, M Thienemann, ND Forkert, **KW Yeom**. Microstructural changes in the deep gray matter in pediatric acute-onset neuropsychiatric syndrome. *JAMA Network Open* 2020 May 1; 3(5):e204063

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83. R Jabarkheel, E Tong, EH Lee, TM Cullen, U Yousaf, AM Loening, V Taviani, M Iv, GA Grant, SJ Holdsworth, SS Vasanawala, **KW Yeom**. Variable refocusing flip angle single-shot imaging for sedation-free fast MRI Brain *AJNR Am J Neuroradiol* 2020 Jul; 41(7): 1256-1262
84. JD Song, HM Wang, Y Liu, W Wu, G Dai, Z Wu, P Zhu, W Zhang, **KW Yeom**, K Deng. End-to-end automatic differentiation of the coronavirus disease 2019(COVID-19) from viral pneumonia based on chest CT. *Eur J of Nuc Med and Molecular Imaging* 2020 Jun 22:1-9
85. P Moon, Zheng, J, K Xi, L Tam, N Ng, AG Cheng, N Forkert, **KW Yeom**. Gray matter diffusion abnormalities in children with sensorineural hearing loss. *Neuroimage Clin* 2020 Jun 25; 27: 102328
86. JL Quon, W Bala, LC Chen, J Wright, EH Lee, L Kim, M Han, K Shpanskaya, RM Lober, MD Taylor, T Young Poussaint, V Ramaswamy, CY Ho, N Vitanza, GA Grant, SH Cheshier, MSB Edwards, **KW Yeom**. Deep learning for automatic detection and classification of pediatric brain tumors: a multi-institutional study. *AJNR Am J Neuroradiol* 2020 Sep; 41(9): 1718-1725
87. JL Quon#, M Han, LH Kim, ME Koran, LC Cheng, J Wright, V Ramaswamy, RM Lober, MD Taylor, GA Grant, SH Cheshier, JRW Kestle, MSB Edwards*, **KW Yeom***. Artificial intelligence for real-time quantitative cerebral ventricular calculation. *J Neurosurg Pediatr* 2020 Dec 1:1-8 (in press, article selected for Press Release by *JNS*)
*Co-senior authors, #Resident trainee
88. B Lanzman#, Y Huang#. EH Lee, M Iv, ME Moseley, SJ Holdsworth*, **KW Yeom***. Simultaneous Time of Flight-MRA and T2* Imaging for Cerebrovascular MRI *Neuroradiology* 2020 Sept 18 (epub)
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89. M Iv, N Ng, Nair S, Y Zhang, SH Cheshier, ME Moseley, GA Grant, **KW Yeom**. Brain Iron Assessment After Ferumoxytol-Enhanced MRI in Children and Young Adults with Arteriovenous Malformation: A Case-Control Study.” *Radiology* 2020 Sep 15: 200378
90. L Wang, Z Liu, J Xie, Y Chen, X Zhao, Z You, M Yang, W Qian, J Tian, **K Yeom**, J Song. Decoding and Systemization of Medical Imaging Features of Multiple Human Malignancies. *Radiology: Imaging Cancer* 2020 Sep 11 (in press)
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92. AG Sandoval, C Wusthoff, D Boothroyd, **KW Yeom**, JK Knowles. Neonatal onset epilepsies display convergent white matter microstructural abnormalities. *Epilepsia* 2020 Oct 23 (epub)
93. JL Quon#, LC Cheng, L Kim, GA Grant, MS Edwards, SH Cheshier*, **KW Yeom***. Deep learning for automated delineation of intracranial vessels on pre-operative brain magnetic resonance imaging for pediatric brains. *Frontiers Surgery* 2020 Sep 24 (in press)
*Co-senior authors, #Resident trainee
94. J Song#, L Wang, NN Ng, M Zhao, J Shi, N Wu, W Li, Z Liu, **KW Yeom***, J Tian*. Clinically applicable approach for evaluating the efficacy of tyrosinase kinase inhibitors in patients with stage IV EGFR mutation-positive non-small cell lung cancer. *JAMA Network Open* Dec1; 3(12): e2030442
* Co-senior authors, # Post-doctoral scholar

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97. MW Wagner, N Hainc, F Khalvati, K Namdar, L Figureido, M Sheng, S Laughlin, MM Shroff, E Bouffet, U Tabori, C Hawkins, **KW Yeom**, BB Ertl-Wagner. Radiomics of pediatric low-grade glioma: towards a pre-therapeutic differentiation of BRAF-mutated and BRAF-fused tumors. *AJNR Am J Neuroradiol* Feb 11, 2021 (epub)

B. Peer-Reviewed Original Scientific Works- In Press or Accepted

98. LT Tam#, **KW Yeom***, J Wright, A Jaju, A Radmanesh, M Han, S Toescu, M Maleki, E Cheng, A Champion, H Lai, A Eghbal, O Oztekin, K Mankad, D Hargrave, TS Jacques, R Goetti, RM Lober, SH Cheshier, S Napel, S Mourad, K Aquilina, CY Ho, M Monje, NA Vitanza, SA Mattonen. MRI-based radiomics prognostic markers for pediatric diffuse intrinsic pontine glioma. *Neuro Oncology Advances* (in press).

Medical student, * Co-1st and Corresponding author

99. LT Tam, NN Ng, E McKenna, L Bruckert, **KW Yeom***, CJ Campen*. Effects of Age on White Matter Microstructure in Children with Neurofibromatosis-1. *Journal Child Neurology* (JCN-2020-09-0011, in press)

* Co-senior authors

D. Peer-Reviewed Publications Other

Peer-Reviewed Case Series/Reports

1. SB Troy, BG Blackburn, **K Yeom**, AK Caulfield, MS Bhangoo, JG Montoya: Severe Encephalomyelitis in an Immunocompetent Adult with Chromosomally Integrated Human Herpesvirus 6 and Clinical Response to Treatment with Foscarnet Plus Ganciclovir. *Clin Infect Dis*. 2008 Dec 15; 47(12): e93-6

2. KL Pricola, J Karamchandani, H Vogel, GV Dahl, **KW Yeom**, MS Edwards, R Guzman. Langerhans Cell Histiocytosis in a 5-month old Presenting with Biparietal Masses. *J Neurosurg Pediatr*. 2010 Oct; 6 (4): 393-7

3. W Chang#, N Gupta, D Duane, PD Barnes, **K Yeom**. Atypical Imaging Findings in the Setting of Methylmalonic Aciduria in an Infant. *Radiology Case Reports* (online) 2012; 7:749

#Medical student

4. J Lopez, **KW Yeom**, A Comi, K Van Haren. Case Report of Subdural Hematoma in a Patient with Sturge-Weber Syndrom and Literature Review: Questions and Implications for Therapy. *J Child Neurol* 2013 May; 28 (5): 672-5

5. N Myall, **KW Yeom**, J Yeatman, S Bean, H Feldman. Case series: Fractional Anisotropy along the Trajectory of Selected White matter Tracts in Adolescents Born Preterm with Ventricular Dilatation. *J Child Neurology* 2013 Jun; 28(6): 771-7

6. ED Plowey, H Vogel, **KW Yeom**, H Jung, K Chao, MS Edwards. Ectopic tectal pineal cyst in a 1 year old girl. *Human Pathology* 2014 Mar; 45(3): 653-6

7. O Choudhri, RM Lober, J Camara-Quintana, **KW Yeom**, R Guzman MS Edwards. Carbon Dioxide Laser for Corpus Callosotomy in the Pediatric Population*. *J Neurosurg Pediatr* 2015 Mar; 15(3):321-7

*The diffusion tensor tractography imaging of this manuscript selected for the cover of the *J Neurosurg Ped* Oct 2015 edition

8. CH Hsu, HE Daldrup-Link, **KW Yeom**, SS Donaldson, L Million, FK Hazard, A Rangaswami. Successful Treatment with Temozolomide Combined with Chemoradiotherapy and Surgery of a Metastatic Undifferentiated Soft Tissue Sarcoma with Relapse in the Central Nervous System of a Young Patient. *J Adolescent Young Adult Oncology* 2014; 3(2): 100-103
9. KE Travis, Y Leitner, M Ben-Shachar, **KW Yeom**, HM Feldman. Case Series: Fractional anisotropy profiles of the cerebellar peduncles in adolescents born preterm with ventricular dilation. *J Child Neurology* 2016 Mar; 31(3): 321-7
10. AT Tolani, **KW Yeom**, J Elbers. Focal cerebral arteriopathy: The face with many names. *Pediatr Neurol* 2015 Sep; 53(3):247-52
11. M Bliss, G Grant, E Tittler, T Loven, **KW Yeom**, D Sidell. Diagnosis and treatment of pediatric frontotemporal pits: report of 2 cases. *J Neurosurg Pediatr* 2016 Oct; 18(4): 471-474
12. P Mittermiller, **KW Yeom**, RM Menard. Isolated intraorbital frontosphenoidal synostosis: A case report and review of the literature. *J Craniofacial Surg* 2018 Jan; 29(1): 82-87
13. V Yedavalli#, **KW Yeom**. The Atypical 'Diving' Lesion: Congenital Dilated Imperforate Submandibular Duct (CDISD). *Neurographics* Sep 2019 (in press)
#Fellow trainee
14. K Mackenzie, S Lee, LM Prolo, J Chen, L Rasmussen, **KW Yeom**, A Khan, GK Steinberg. Moya moya vasculopathy and bilateral strokes in a child with recent SARS-CoV-2 Infection: A case report. *J Pediatrics* (submitted Sep 2020)
15. KW Canty, MA Jimenez, CA DeRidder, **KW Yeom**, MS Shiroishi, A Brownell. A Case for Magnetic Resonance Imaging Beyond the Cervical Spine in Suspected Abusive Head Trauma. *Archives Disease in Childhood* (submitted Nov 3 2020).

Peer-Reviewed Review Articles

1. B Morris, S Partap, **K Yeom**, IC Gibbs, PG Fisher, and A King. Cerebrovascular Disease in Childhood Cancer Survivors: A Children's Oncology Group Report. *Neurology* 2009 Dec 1; 73(22):1906-13
2. JS Hahn, J MacLean, **K Yeom**. Agenesis of Corpus Callosum and Associated Malformations: From Aicardi to Zellweger Syndromes. *NeoReviews* Vol. 13 No. 4 April 1, 2012 pp. e224 -e232
3. AM Rauschecker, CV Patel, **KW Yeom**, CA Eisenhut, RS.Gawande, JM O'Brie, KB Ebrahim, HE Daldrup-Link. High-resolution MR imaging of the orbit in patients with retinoblastoma *Radiographics* 2012 Sept; 32 (5): 1307-26
4. C Liu, W Li, KA Tong, **KW Yeom**, S Kuzminski. Susceptibility-weighted imaging and quantitative susceptibility mapping in the brain. *J Magn Reson Imaging* 2015 Jul; 42(1): 23-41
5. M Iv, N Telischak, D Feng, SJ Holdsworth, **KW Yeom**, HE Daldrup-Link. Clinical applications of iron oxide nanoparticles for magnetic resonance imaging of brain tumors. *Nanomedicine* 2015 Mar; 10 (6): 993-1018
6. C Kim, **KW Yeom**, M Iv. Congenital brain malformations in the neonatal and early infancy period. *Semin Ultrasound CT MR* 2015 Apr; 36(2):97-119
7. E Tranvinh, **KW Yeom**, M Iv. Imaging neck masses in the neonate and young infant. *Semin Ultrasound CT MR* 2015 Apr; 36(2):120-37

8. M Zhou, J Scott, B Chaudhury, L Hall, D Goldgof, **KW Yeom**, M Iv, Y Ou, J Kalpathy-Cramer, S Napel, R Gilles, O Gevaert, R Gatenby. Radiomics in brain tumor: image assessment, quantitative feature descriptors, and machine learning approaches. *AJNR Am J Neuroradiol*. 2018 Feb; 39(2):208-216
9. S Partap, S Russo, B Esfahani, **K Yeom**, C Mazewski, L Embry, G Wheeler, NJ Ullrich, DC Bowers. A review of chronic leukoencephalopathy among survivors of childhood cancer. *Pediatr Neurol* 2019 Dec; 101:2-10
10. V Yedavalli, E Tong, D Martin, **KW Yeom**, N Forkert. Artificial Intelligence in Stroke Imaging: Current and Future Perspectives. *Clin Imaging* 2020 Sep 21; 69:246-254
11. B Kelly, C Judge, SM Bollard, SM Clifford, GM Healy, **KW Yeom**, A Lawlor, RP Killeen. Radiology artificial intelligence, a systematic evaluation of methods (RAISE): a systematic review protocol. *Insights into Imaging*. 2020; 11(1): 133

Peer-reviewed White Paper

J Fangusaro, O Witt, P Hernaiz Driever, AK Bag, P de Blank, N Kadom, L Kilburn, RM Lober, NJ Robison, MJ Fisher, R Packer, TY Poussaint, L Pausha, S Avula, AA Brandes, E Bouffet, D Bowers, A Artemov, M Chintagumpala, D Zurakowski, M van den Bent, B Bison, **KW Yeom**, W Taal, KE Warren. Response assessment in paediatric low-grade glioma: recommendations from the Response Assessment in Pediatric Neuro-Oncology (RAPNO) working group. *Lancet Oncol* 2020 Jun; 21(6):e305-e316

E. Peer-Reviewed Book Chapters

1. Carey TE, Nair TS, Gray JP, Zeitoun H, Lansford CD, Fisher SG, Dolan DF, Raphael Y, Miller JM, Ramakrishnan A, Lee DS, Denny ED, Arts A, Telian SA, El-Kashlan H, Disher MJ, Sataloff RT, **Yeom K**. “The Search for the Inner Ear Antigen of Autoimmune Sensorineural Hearing Loss”. *New Frontiers in Immunobiology*. Kugler Publications; 2000:67-74.

2. *Pearls and Pitfalls in Pediatric Imaging: Variants and Other Difficult Diagnoses* Eds. HE Daldrup-Link, B Newman. Cambridge University Press 2014:

- Case 2: Frobromatosis colli (S. Flanagan, **KW Yeom**, PD Barnes, B Newman)
- Case 4: Labyrinthitis ossificans (LA Mitchell, **KW Yeom**)
- Case 5: Branchio-oto-renal syndrome (LA Mitchell, **KW Yeom**)
- Case 6: Medulloblastoma (N Gupta, **KW Yeom**)
- Case 7: Ectopic thymus (M Iv, **KW Yeom**)
- Case 8 X-linked Adrenoleukodystrophy (J Narvid, **KW Yeom**)
- Case 9: Langerhans cell histiocytosis (M Pulling, **KW Yeom**)
- Case 10: PHACES syndrome (J Kang, **KW Yeom**)

3. *Artificial Intelligence in Medicine: Technical Basis and Clinical Applications*’ by the Elsevier S&T Books, 2020 (in press).

Chapter Title: “Harnessing the Potential of Artificial Neural Networks for Pediatric Patient Management” J Quon#, MC Jin, J Seekins, **KW Yeom**. #Resident trainee

4. 2019 Research Colloquium Proceedings: Advances and Challenges in Chiari Malformation, Syringomyelia & Related Disorders, 9/30/2020 (in press). Chapter Title: “Imaging workup for hydrocephalus: current status, technical updates, and artificial intelligence” **KW Yeom**

VIII. SERVICE TO PROFESSIONAL ORGANIZATIONS

A. MEMBERSHIP

- 2002-present Radiological Society of North America (RSNA)
- 2002-2009 American College of Radiology (ACR)

2009-present	American Society of Functional Neuroradiology (ASFNR)
2010-present	American Society of Neuroradiology (ASNR)
2010-present	American Society of Pediatric Neuroradiology (ASPNR)
2014-present	International Society for Magnetic Resonance in Medicine (ISMRM)
2018-present	Society for Pediatric Radiology (SPR)

B. COMMITTEE SERVICE

2010	Moderator for <i>Society for Pediatric Radiology (SPR)</i> 2010 Pediatric Neuroradiology lecture series and scientific oral presentation
2013	2 nd International Workshop on <i>MRI Phase Contrast & Quantitative Susceptibility Mapping</i> (section of the <i>ISMRM</i>) scientific paper reviewer
2014, 2015	<i>Society for Pediatric Radiology</i> Scientific Poster Committee reviewer
2014-2016	<i>The Cancer Genomic Atlas (TCGA)</i> - Low Grade Glioma Study Group
2013-2016	<i>Global Oncology Project (section of Global Child Health)</i> study of pediatric retinoblastoma
2015-2020	Research Committee member of the <i>American Society of Pediatric Neuroradiology (ASPNR)</i>
2018-2021	Executive Board Committee member of <i>American Society of Pediatric Neuroradiology (ASPNR)</i>
2019-2020	ASPNR scientific abstract review committee
2021	Peer Review Committee for 2021 <i>ABTA Jack and Fay Netchin Medical Student Summer Fellowship</i>
2021	Moderator for <i>American Society of Pediatric Neuroradiology (ASPNR)</i> Pediatric Neuroradiology lecture series
2021-2022	Chair of Research Grant Committee for <i>American Society of Pediatric Neuroradiology (ASPNR)</i>

IX. INVITED PRESENTATIONS

A. LOCAL

Stanford University Radiology Grand Rounds Feb 14, 2020; Title: “Neuroimaging of Pediatric Brain Tumors: Past Decade at Stanford Children’s”.

Stanford University RSL Special Guest Lecture July 10, 2020; Title: “Updates in Pediatric Neuroradiology Research”.

Stanford University Integrative Biomedical Imaging Informatics at Stanford (IBIIS) Special Guest Lecture Mar 18, 2020; Title: “Image Data”

Stanford University Artificial Intelligence in Medicine and Imaging Symposium Aug 5, 2020, Moderator, Title: “Fairness in AI”

B. NATIONAL MEETINGS

72ND Annual Meeting of the American Academy of Dermatology Mar 21-25, 2014; Session F099 Management of Vascular Tumors and Malformations. Title “Imaging Vascular Anomalies of the Head and Neck” (March 23, 2014), Denver, CO

73rd Annual Meeting of the American Academy of Dermatology Mar 21-25, 2015; Session F144 Management of Vascular Tumors and Malformations. Title “Pediatric Vascular Anomalies of the Head and Neck” (March 23, 2015), San Francisco, CA

53rd Annual Meeting of the *American Society of Neuroradiology* April 26-30, 2015; 22D – Session 22D Neuro-Nuclear Immersion: The merging of anatomic and functional imaging: oncologic imaging Part II: Physiologic and endocrine applications. Title “Pediatric Shunt Failure” (April 30, 2015), Chicago, IL

55th Annual Meeting of the *American Society of Neuroradiology* April 22-27, 2017- Session Pediatric Brain Tumors. Title “Radiogenomics of Pediatric Brain Tumors” (April 27, 2017), Long Beach, CA

Annual Meeting of the *Radiologic Society North America* Nov 26, 2018- SPSI24: Special Interest Session: Demystifying Machine Learning and Artificial Intelligence for the Radiologist (Nov 26, 2018) SAM Module

Annual Meeting of *American Society of Pediatric Neuroradiology (ASPNR)* Jan 18-20, 2019: “Radiogenomics for Pediatric Brain Tumors”, (Jan 19, 2019) New Orleans, LA

Bobby Jones Chiari & Syringomyelia Foundation Research Colloquium April 12-13, 2019: “Rapid MRI for Chiari I malformation”, (April 13, 2019) San Diego, CA

Annual Meeting of the *Society for Pediatric Radiology* (SPR) Apr 30-May 4, 2019: Radiogenomics Session: “Radiogenomics in Pediatric Neuroradiology”, (May 3, 2019) San Francisco, CA

Radiologic Society North America Spotlight Course in Artificial Intelligence May 31- Jun 1, 2019: “Artificial Intelligence for Clinical Neuro-Oncology.”, (Jun 1, 2019) San Francisco, CA

Massachusetts Institute of Technology (MIT) AI 2019: Future of Computing: “Health AI: AI Research in Healthcare”, (Sep 14, 2019) Palo Alto, CA

Bobby Jones Chiari & Syringomyelia Foundation Research Colloquium Oct 18-19, 2019: “Imaging workup for hydrocephalus: current status, technical updates, and artificial intelligence”, (Oct 19, 2019) San Francisco, CA

Neurobiology of Disease in Children in conjunction with *Child Neurology Society* October 22-24, 2019. Key Note speaker: “Neuroimaging: Novel Investigations and Limitations” Charlotte, NC

Texas Children’s Symposium on AI in Pediatric Radiology October 28-29, 2019: “AI and Future Steps Towards Precise Pediatric Neuroradiology.”, Houston, TX

Annual Meeting of *American Society of Pediatric Neuroradiology (ASPNR)* Jan 18-20, 2020: “Artificial Intelligence for Pediatric Brain Tumors”, Miami, FL

Society for Imaging Informatics in Medicine (SIIM) Nov 12, 2020 Webinar: “Machine Learning in Medical Imaging- What Radiologists Need to Know”.

Annual Meeting of *American Society of Neuroradiology (ASNR)* Jun 4, 2021: “Artificial Intelligence in Medicine: Pearls and Pitfalls”, Las Vegas, NV

Invited Speaker: *Society for Imaging Informatics in Medicine SIIM AI* Webinar. Nov 12, 2020: “Machine Learning in Medical Imaging- What Radiologists Need to Know”.

C. INTERNATIONAL MEETINGS

2nd *International Workshop on MRI Phase Contrast & Quantitative Susceptibility Mapping (QSM)* July 25-27, 2013, Cornell University, Ithaca, NY. Title: “QSM and Pediatric Brain Imaging”

3rd *South Pacific Otolaryngology* Forum July 9-12, 201, Maui, HI (Presented by Australian New Zealand Society of Pediatric Otolaryngology and Australasian Rhinologic Society. Title: “Pediatric Face and Sino Nasal Cavity” and “Neck Masses of Childhood”

25th Annual Meeting of the *International Society for Magnetic Resonance in Medicine (ISMRM)* April 22-28, 2017, Honolulu, HI. Title: “QSM Application in Pediatric Vascular Malformations”

OHSU Sponsored Workshop “The Future of Ferumoxytol as an MRI contrast agent: Efficacy and Safety” June 17, 2018, Paris, France

Pediatric Neurosurgery Symposium “Childhood Incidentalomas” (co-presenters: Edwards/Yeom) June 14, 2018, Basel Switzerland

Radiologic Society North America Spotlight Course in Artificial Intelligence, Sept 23-24, 2018, Paris, France
Titles: “Clinical Applications and Artificial Intelligence Workflow”; “Deep Vision for Clinical Image Classification”; “Radiomics in Clinical Neuro Oncology”

Hot Topics Conference in Neuroradiology and Artificial Intelligence, Sept 7-8, 2019, Brasilia, Brazil. “Nuts and Bolts for building artificial intelligence models”; “Case-based AI Neuro Learning”

Keynote Speaker: 43rd Annual European Society of Neuroradiology October 7, 2020 (virtual meeting). “AI in Pediatric Brain Tumor Imaging”

Keynote Speaker: EMBL-Stanford Life Science Alliance Symposium: AI in Healthcare Oct 27-28, 2020 Heilbronn, Germany “Towards Precision in the Era of AI and Modern Medicine”.

Panelist EMBL-Stanford Life Science Alliance Symposium: AI in Healthcare Oct 27-28, 2020 Heilbronn, Germany “The Future of AI in Healthcare: what does it look like and how do we get there?”.

Keynote Speaker: AI in Radiology Latin America Symposium, May 15, 2021, Santiago, Chile. “Precision Medicine in Modern Era of Artificial Intelligence”

Keynote Speaker: Iranian Congress of Radiology, Fall 2021, Tehran, Iran. “Towards Machine Learning in Neuroradiology”

Invited Speaker: *Symposium Neuroradiologicum*, May 14, 2022, New York, NY. “AI in Pediatric Neuroradiology”.

D. VISITING PROFESSORSHIP

Visiting Professorship at Yonsei University, Seoul, Korea Sept 29-Oct 3, 2014 Department of Engineering, section electrical and computer engineering

Special Guest Speaker, Yonsei University, Seoul, Korea Sept 29-3, 2014 Department of Engineering. “Diffusion and Susceptibility Imaging of the Pediatric Brain”

Grand Rounds Speaker, Yonsei University, Seoul, Korea Sept 29-3, 2014 Department of Radiology, School of Medicine. “Advanced MRI Brain Applications for Pediatric Brain”

Special Guest Speaker, University of Southern California, Los Angeles, CA April 28, 2017 Department of Radiology, School of Medicine. “Pediatric Head and Neck Vascular Malformations”

Special Guest Speaker, University of Arizona, Tucson, AZ April 3, 2017 Department of Radiology, School of Medicine. “MRI Fetus: Malformations of the Brain and Spine”

Special Guest Speaker, Barrows Neurological Institute/ St. Joseph Hospital, Phoenix, AZ April 4-5, 2017 Department of Radiology, Creighton Medical School. “Posterior Fossa Brain Tumors in Children”; “MRI Fetal Brain and Spine”

Special Guest Speaker, Oregon Health Sciences University (OHSU), Portland, OR June 12-13, 2017 Department of Radiology, OHSU. “Ferumoxytol and Quantitative Susceptibility Map for Pediatric Brain Vascular Malformations.”

Special Guest Speaker, University of California Berkeley (UCB), Berkeley, CA Oct 18, 2017 Department of Electrical Engineering/Computer Science, UCB. “Iron Imaging of the Brain”.

Special Guest Speaker, Children’s Hospital Los Angeles, Los Angeles, CA Oct 8, 2018. “Acute Pediatric Emergencies in Neuroimaging”.

Special Guest Speaker, Great Ormond Street Hospital, London, UK Mar 19, 2019. “Advanced imaging applications for pediatric neuro-oncology, what we have learned at Stanford”.

Special Guest Speaker, Visiting Professor, Derek Harwood-Nash Symposium, University of Toronto/Toronto Hospital for Sick Children, Nov 15, 2019. “Artificial Intelligence Approaches to Neuroimaging in Pediatric Brain Tumors.”

Special Guest Speaker, Visiting Professor, University of British Columbia, Vancouver, Canada, Dec 11, 2019. “Machine learning applications in radiology”; “Strategies for Big Data Analytics in Imaging”; “Pediatric Brain Trauma”.

Special Guest Speaker, Visiting Professor, Yonsei University, Seoul, South Korea, Dec 19, 2020. “Machine Learning in neuroradiology: applications for pediatric brain tumors, neural development and aging, and quantitative imaging.”

Grand Rounds Speaker, Department of Radiology, Stanford University, Palo Alto, CA, Feb 14, 2020. “Advances in Pediatric Neuroimaging.”

Special Invited Guest Speaker, Integrative Biomedical Imaging Informatics at Stanford (IBIIS), Stanford University, Palo Alto, CA. “Machine learning applications for pediatric brain tumors.” Mar 18, 2020

Special Invited Speaker, School of Engineering, University of Chile, May 15-20, 2021, Santiago, Chile. “Modern medicine powered by advances in computer science”.

Special Invited Speaker, Dept of Radiology, Tehran University of Medical Sciences, Tehran, Iran. “AI for Precision Neuro diagnostics” Fall 2021