

MAI-LAN HO, M.D.

Professor of Radiology

*Neuroimaging physician-scientist
Precision health & artificial intelligence*

Career Summary

I am an internationally recognized physician leader, scientist, and educator with experience across multiple institutions and practice models. My academic specialization includes translational advanced imaging and precision medicine for systems neuroscience. I direct enterprise programs for interdisciplinary clinical care & research; innovative educational curricula & trainee mentorship; and faculty development including diversity & wellness.

Education

- 1999 – 2000 **Washington University in St. Louis**, St. Louis, MO
Biomedical Engineering
- 2000 – 2003 **Stanford University**, Stanford, CA
BS with Distinction, Chemical Engineering
- 2003 – 2004 **Massachusetts Institute of Technology**, Cambridge, MA
Graduate Research Fellow, Bioinformatics and Metabolic Engineering
- 2004 – 2008 **Washington University School of Medicine**, St. Louis, MO
MD, Medicine

Postdoctoral Training

- 2008 – 2009 **St. Luke's Hospital**, Chesterfield, MO
Internship, Internal Medicine
- 2009 – 2013 **Beth Israel Deaconess Medical Center**, Boston, MA
Residency, Diagnostic Radiology – Scholar's Track
Mini-Fellowship, Body Magnetic Resonance Imaging
Mini-Fellowship, Musculoskeletal Imaging
- 2013 – 2015 **University of California, San Francisco**, San Francisco, CA
Fellowships, Neuroradiology and Pediatric Neuroradiology
Clinical Instructor and Co-Chief Fellow, Neuroradiology

Faculty Positions

- 2015 – 2019 **Mayo Clinic**, Rochester, MN
Assistant Professor of Radiology
- 2019 – 2022 **The Ohio State University**, Columbus, OH
Associate Professor of Radiology
- 2020 – 2023 **Nationwide Children's Hospital**, Columbus, OH
Director of Research, Department of Radiology
Director, Advanced Neuroimaging Core
Faculty Lead, Imaging Genomics Research Affinity Group
Secretary, Association of Staff and Faculty Women
Chair, Asian Pacific American Network
- 2021 – 2023 **Nationwide Children's Hospital**, Columbus, OH
Director, Translational Imaging (I³) Core
- 2022 – 2023 **The Ohio State University**, Columbus, OH
Professor of Radiology

Certifications

Diagnostic Radiology, American Board of Radiology, 2013 – present
Neuroradiology, American Board of Radiology, 2015 – present

Editorial Activities

Editor, *AAWR Pocket Mentor*, American Association for Women in Radiology

Editor, *AAWR Focus*, American Association for Women in Radiology

Editor, *AAWR Mentorship Corner*, American Association for Women in Radiology

Editor-in-Chief, *World Journal of Radiology*

Associate Editor, *British Journal of Radiology*

Associate Editor, *Journal of Neuroradiology*

Associate Editor, *Radiology—Open Journal*

Associate Editor, *The Journal of Laryngology, Rhinology & Otology*

Honorary Guest Editor, *New Insights into Pediatric Neuroradiology, Children*

Guest Editor, *Pediatric Neuroimaging: State-of-the-Art, MRI Clinics of North America*

Guest Editor, *Advanced Imaging in Pediatric Neurodevelopment, AJNR News Digest*

Editorial Board, *Aperture—Organization for Human Brain Mapping*

Editorial Board, *World Journal of Radiology*

Editorial Board, *Frontiers in Radiology*

Editorial Board, *Radiology of Infectious Diseases*

Editorial Board, *Global Journal of Tumor & Brain Disorder*

Editorial Board, *Radiology Research and Diagnostic Imaging*

Editorial Board, *Neurosciences Studies*

Editorial Board, *Journal of Cancer Research, Treatment & Prevention*

Editorial Board, *Annals of Infectious Diseases & Preventive Medicine*

Editorial Board, *Journal of Advanced Pediatrics and Neonatal Care*

William W. Olmsted Editorial Fellowship, Radiological Society of North America

Junior Trainee Section Editor, *Radiopaedia*

Presiding Officer, RSNA Neuroradiology Scientific Sessions

Abstract Reviewer, American Society of Neuroradiology

Abstract Reviewer, American Society of Pediatric Neuroradiology

Abstract Reviewer, American Society of Head and Neck Radiology

Abstract Reviewer, American Society of Spine Radiology

Abstract Reviewer, Eastern Neuroradiological Society

Ad hoc Reviewer: *American Journal of Neuroradiology, Pediatric Radiology, Radiology, American Journal of Roentgenology, British Journal of Radiology, Journal of Pediatric Neuroradiology, Journal of Magnetic Resonance Imaging, Clinical Imaging, Journal of Child Neurology, Child Neurology Open, Journal of Pediatric Epilepsy, Laryngoscope, Pediatric Otolaryngology, International Journal of Pediatric Otorhinolaryngology*

Leadership and Committee Service

2010 – 2011 Medical Faculty, National Youth Leadership Forum

2010 – 2011 Resident / Fellow Liaison, Massachusetts Radiological Society

2010 – 2012 Residents Advising Medical Students Program, Harvard Medical School

2011 – 2012 Committee on History, Massachusetts Medical Society

2011 – 2013 Radiology Consultant, Harvard AIDS Initiative in Vietnam

2011 – 2013 Member-in-Training Committee, American Association for Women in Radiology

2011 – 2013 Outreach Committee, American Association for Women in Radiology

2014 – 2015 Faculty Advisor, Volunteers in Asia

2014 – 2015 Membership Committee, American Society of Head and Neck Radiology

2014 – 2016 Website Liaison, Society for Pediatric Radiology

2014 – 2023 MRI Committee, Society for Pediatric Radiology

2015 – 2016 Website Committee, American Society of Head and Neck Radiology

2015 – 2023 Research Committee, American Society of Pediatric Neuroradiology

2016 – 2017 Public Relations Committee, American Association for Women in Radiology

2016 – 2019 Publications Committee, American Society of Pediatric Neuroradiology

2016 – 2023 Research Committee, American Society of Head and Neck Radiology

2017 – 2018 Co-Chair, Website Subcommittee, American Association for Women in Radiology

2017 – 2019 Gabriel H. Wilson Award Committee, Western Neuroradiological Society

2017 – 2023 Education Committee, American Society of Head and Neck Radiology

2017 – 2019 Neuroradiology Consultant, Partners in Health

2017 – 2019 Radiology Consultant, Mayo International Health Program
 2017 – 2019 Neuroradiology Representative, Imaging Committee, Sturge-Weber Foundation
 2017 – 2020 Program / Education Committee, American Society of Functional Neuroradiology
 2017 – 2022 Pediatrics Committee, Online Longitudinal Assessment, American Board of Radiology
 2017 – 2022 Chair, Pocket Mentor Subcommittee, American Association for Women in Radiology
 2017 – 2023 Neuroradiology Representative, MRI Workgroup, World Federation of Pediatric Imaging
 2018 – 2019 Artificial Intelligence Workgroup, Association of University Radiologists
 2018 – 2020 Publications Committee, American Society of Neuroradiology
 2018 – 2020 Neuroradiology Consultant, RAD-AID International
 2018 – 2020 Program Committee / Moderator Subcommittee, American Society of Neuroradiology
 2018 – 2023 Neuroradiology Committee, Society for Pediatric Radiology
 2018 – 2023 Neonatal Committee, Society for Pediatric Radiology
 2018 – 2021 Informatics Committee, Society for Pediatric Radiology
 2019 – 2020 Research and Education Committee, American Society of Spine Radiology
 2019 – 2020 Program Committee, Western Neuroradiological Society
 2019 – 2020 Radiology Lead, CLN2 Advisory Board, BioMarin Pharmaceuticals
 2019 – 2023 ASL, DTI+, fMRI, and MRE Biomarker Committees, Quantitative Imaging Biomarkers Alliance, Radiological Society of North America / European Imaging Biomarkers Alliance
 2019 – 2023 Vice Chairs for Research Committee, Radiological Society of North America
 2019 – 2023 Steering Committee, Neurodevelopmental Research Affinity Group, Nationwide Children's
 2019 – 2023 International Collaborations Committee, American Society of Neuroradiology
 2019 – 2023 Evidence-Based Medicine Committee, American Society of Neuroradiology
 2019 – 2023 Pediatric Imaging Research Committee, American College of Radiology
 2019 – 2023 ASHNR Representative, Research Committee, American Society of Neuroradiology
 2019 – 2023 Pediatric Expert Panel, ACR Appropriateness Criteria, American College of Radiology
 2020 – 2022 Chair, Asian Pacific American Network, Nationwide Children's Hospital
 2020 – 2021 Social Media Committee, American Society of Spine Radiology
 2020 – 2021 Organizing Committee Member, Global Congress and Expo on Radiology, Imaging, and Nuclear Medicine
 2020 – 2021 International Pediatric Leukodystrophy Artificial Intelligence Discovery (PLAID) Group
 2020 – 2021 Course Director, Imaging Innovation and Research Series, Nationwide Children's Hospital
 2020 – 2023 International Consensus Group on Spinal Malformations
 2020 – 2023 Prenatal Human Phenotype Ontology (HPO) Working Group
 2020 – 2023 Research Committee, Eastern Neuroradiological Society
 2020 – 2023 Secretary, Association of Staff and Faculty Women, The Ohio State University
 2020 – 2023 Executive Board, Association of Staff and Faculty Women, The Ohio State University
 2020 – 2023 Faculty Lead, Imaging Genomics Research Affinity Group, Nationwide Children's Hospital
 2020 – 2023 Diversity, Equity, and Inclusion Committee, Center for Cognitive and Behavioral Brain Imaging, The Ohio State University
 2021 – 2022 Computer, Science and Informatics Committee, American Society of Neuroradiology
 2021 – 2022 Young Professionals Committee, American Society of Spine Radiology
 2021 – 2022 Young Professionals Committee, American Society of Neuroradiology
 2021 – 2023 International Session Director, Program Committee, American Society of Spine Radiology
 2021 – 2023 Artificial Intelligence Spine Challenge Working Group, American Society of Spine Radiology
 2021 – 2023 State Chapter Subcommittee, American Association for Women in Radiology
 2021 – 2023 Mid-Career Committee, American Association for Women in Radiology
 2021 – 2023 Executive Committee, American Society of Spine Radiology
 2021 – 2023 Chair, Education Committee, American Society of Spine Radiology-European Society of Neuroradiology
 2021 – 2023 Publications Committee, American Society of Functional Neuroradiology
 2021 – 2023 Education Committee, American Society of Neuroradiology
 2021 – 2023 Research Committee, Nationwide Children's Hospital
 2021 – 2026 Director, Translational Imaging (I³) Core, Nationwide Children's Hospital
 2022 – 2023 Chair, International Relations Committee, American Society of Head and Neck Radiology
 2022 – 2023 Organizing Committee, World Summit on Neonatology, Pediatrics and Developmental Medicine
 2022 – 2023 Lead, Neuroradiology Artificial Intelligence Taskgroup, Society for Pediatric Radiology

2022 – 2023 Nominating Committee, American Society of Spine Radiology
 2022 – 2023 Leaders in Advocating Diversity & Inclusion in Radiology, Association of University Radiologists
 2022 – 2023 Artificial Intelligence Taskforce, European Society of Paediatric Radiology
 2022 – 2023 Fetal Taskforce, European Society of Paediatric Radiology
 2022 – 2023 Neuroradiology Taskforce, European Society of Paediatric Radiology
 2022 – 2023 Outreach Taskforce, European Society of Paediatric Radiology
 2022 – 2023 Program and Education Committee, American Society of Functional Neuroradiology
 2022 – 2023 Scientific Advisory Committee, SPIN Academics
 2022 – 2023 Information Technology Research and Innovation Advisory Council, Nationwide Children's Hospital
 2022 – 2023 Paper Committee, Society for Pediatric Radiology
 2022 – 2023 Relevance and Impact Workgroup, American College of Radiology
 2022 – 2023 Institutional Memory and Guidance Committee, Western Neuroradiological Society
 2022 – 2024 Neuroradiology Research Committee, American College of Radiology
 2022 – 2024 Pediatric Informatics Committee, American College of Radiology
 2022 – 2025 Chair, Pediatric Neuroradiology, ACR Appropriateness Criteria, American College of Radiology
 2022 – 2025 Co-Chair, Newsletter Subcommittee, American Association for Women in Radiology
 2022 – 2025 Board of Directors, Southern Pediatric Neurology Society
 2022 – 2025 Alliance of Leaders in Academic Affairs in Radiology, Association of University Radiologists

Honors and Prizes

1999 Elizabeth Blodgett Hall "Acceleration to Excellence" Scholarship, Simon's Rock College
 1999 Grand Prize Winner, United States of America Mathematical Talent Search
 2000 Dorothy Lemke Howarth Scholarship, Society of Women Engineers
 2000 Howard Hughes Medical Institute Research Fellowship, Washington University
 2001 Cap and Gown Honor Society, Stanford University
 2001 Channing Robertson Distinguished Service Award, Stanford University
 2001 Rockwell Corporation Scholarship, Society of Women Engineers
 2001 Corporate Fellowship / Merit Scholarship, The Coca-Cola Company
 2002 Howard Hughes Medical Institute Research Fellowship, Stanford University
 2002 Engineering & Technology Fellowship / Merit Scholarship, Merck & Co.
 2002 Academic Flagbearer & School of Engineering Representative, Stanford University
 2002 Electronics for Imaging Scholarship, Society of Women Engineers
 2002 Tau Beta Pi Honor Society, Stanford University
 2002 Phi Beta Kappa Honor Society, Stanford University
 2003 Merck Award for Student Research, Stanford University
 2003 Outstanding Senior Award, American Institute of Chemical Engineers
 2003 American Institute of Chemical Engineers Distinguished Service Award, Stanford University
 2003 John T. Haslam Fellowship, Massachusetts Institute of Technology
 2004 National Institutes of Health Research Fellowship, Washington University School of Medicine
 2005 National Dean's List Merit Scholarship, Washington University
 2005 National Institutes of Health Research Fellowship, Washington University School of Medicine
 2008 Best Scientific Presentation, Society of Thoracic Radiology
 2008 Hugh M. Wilson Award for Meritorious Work in Radiology, Washington University
 2011 Lucy Frank Squire Distinguished Resident Award in Diagnostic Radiology, American Association for Women in Radiology
 2011 1st Place Team, AUR-Philips Vydareny Film Interpretation Competition
 2011 Siemens-AUR Radiology Resident Academic Development Program
 2011 Stephen A. Kieffer Award, Eastern Neuroradiological Society
 2011 Lawrie B. Morrison Research Award, Beth Israel Deaconess Medical Center
 2011 Resident Research Award, Beth Israel Deaconess Medical Center
 2011 The Academy of Medical Educators, Beth Israel Deaconess Medical Center
 2011 Excellence in Teaching Award, Harvard Medical School
 2011 Bracco Diagnostics / Radiological Society of North America Research Resident Grant
 2012 William W. Olmsted Editorial Fellowship for Trainees, Radiological Society of North America

2012 Roentgen Resident / Fellow Research Award, Radiological Society of North America
 2013 Risa and Felix Fleischer Young Investigator Award, Beth Israel Deaconess Medical Center
 2014 Research Fellow Award, Society for Pediatric Radiology
 2014 Radiology and Biomedical Imaging Seed Grant, University of California, San Francisco
 2014 Gabriel H. Wilson Award, Western Neuroradiological Society
 2016 Magna Cum Laude Electronic Educational Exhibit, American Society of Neuroradiology
 2016 Advance Award, Department of Radiology, Mayo Clinic
 2016 Radiology Research Award, Department of Radiology, Mayo Clinic
 2017 Faculty Development Program, Association of University Radiologists
 2017 Summa Cum Laude Educational Exhibit, American Society of Neuroradiology
 2018 Paul Dyken Scholarship Lecture, Southern Pediatric Neurology Society
 2018 Siemens Healthineers / Research Scholar Grant, Radiological Society of North America
 2018 Pilot Award, Society for Pediatric Radiology
 2018 William N. Hanafey Award, American Society of Head and Neck Radiology
 2019 Society for Pediatric Radiology Representative, Council of Early Career Investigators in Imaging, The Academy for Radiology & Biomedical Imaging Research
 2019 Collaborative Travel Award, Karolinska Institutet
 2019 Anne G. Osborn International Outreach Professor, American Society of Neuroradiology
 2019 Honorary Member, Pernambuco Radiology Society
 2019 Path-Finder Grant, Department of Radiology, Nationwide Children's Hospital
 2019 Innovation Fund Grant, American College of Radiology
 2019 Advanced Course in Grant Writing, Radiological Society of North America
 2020 Artificial Intelligence Workshop, American Society of Neuroradiology / American Society of Functional Neuroradiology
 2020 2nd Place, Artificial Intelligence Research Award, American Society of Neuroradiology / American Society of Functional Neuroradiology
 2020 Faculty Leadership Institute, The Ohio State University
 2021 Medical Leadership Program, Nationwide Children's Hospital
 2021 Top Radiologist, Top Doctors Edition, Ohio Magazine
 2021 Magna Cum Laude Electronic Exhibit, American Society of Neuroradiology
 2021 Certificate of Merit, American Society of Neuroradiology
 2021 Katherine A. Shaffer Award, Radiology Institute Leadership Summit, American Association for Women in Radiology
 2021 International Virtual Reading Room Professor, American Society of Neuroradiology
 2021 CHEST Foundation Research Grant in Cystic Fibrosis, American College of Chest Physicians
 2021 Radiology Medical Education Grant, Bayer Healthcare
 2022 Top Radiologist, Top Doctors Edition, Ohio Magazine
 2022 Paul Dyken Scholarship Lecture, Southern Pediatric Neurology Society
 2022 Siemens Healthineers Academy, Siemens Healthineers Asia Pacific
 2022 Radiology Research Award, Nationwide Children's Hospital
 2022 Radiology Continuing Medical Education Award, Nationwide Children's Hospital
 2022 Editor's Choice Article, Seminars in Pediatric Neurology
 2022 Women's Pilot Workshop, The Academy for Radiology & Biomedical Imaging Research
 2023 Clinical Trials Methodology Workshop, Radiological Society of North America

Report of Teaching and Training

Intramural Presentations

2010 – 11 **Bone tumors.**
 Medical Student Clerkship, Beth Israel Deaconess Medical Center
 2011 – 13 **Brain MRI.**
 Medical Student Clerkship, Beth Israel Deaconess Medical Center
 2014 **Neuroradiology signs: acute brain.**
 Resident Conference, Department of Radiology, University of California, San Francisco

- 2014 – 16 **Arterial spin labeling: principles and applications.**
 Fellow Conference, Department of Radiology, University of California, San Francisco
 Resident Conference, Department of Neurology, Mayo Clinic
 Fellow Conference, Department of Radiology, Mayo Clinic
- 2015 **Introduction to pediatric neuroimaging.**
 Medical Student Clerkship, Department of Radiology, University of California, San Francisco
- 2015 **MRI: special acquisition methods.**
 Resident Board Review, Department of Radiology, University of California, San Francisco
- 2015 **Pediatric neuroradiology conference.**
 Departments of Neurology and Neurosurgery, University of California, San Francisco
- 2015 **Imaging fetal head & neck anomalies.**
 Fellow Conference, Department of Radiology, University of California, San Francisco
- 2015 **Head & neck vascular anomalies: why image?**
 Resident Conference, Department of Neurology, Mayo Clinic
- 2015 **Neurofibromatosis pearls: clinical-radiologic correlation.**
 Resident Conference, Department of Neurology, Mayo Clinic
- 2015 – 18 **Vascular anomalies conference.**
 Departments of Dermatology and Vascular Surgery, Mayo Clinic
- 2015 – 18 **Pediatric neuroimaging conference.**
 Department of Neurology, Mayo Clinic
- 2015 – 18 **Epilepsy imaging conference.**
 Departments of Neurology and Neurosurgery, Mayo Clinic
- 2015 – 18 **Head & neck tumor board.**
Skull base conference.
ENT imaging rounds.
Oropharyngeal cancer clinic.
Oral cavity and reconstruction clinic.
 Departments of Otolaryngology, Radiation Oncology, and Medical Oncology, Mayo Clinic
- 2016 **Phakomatoses from molecules to morphology.**
 Resident Conference, Department of Neurology, Mayo Clinic
- 2016 **Craniofacial anomalies and syndromes.**
 Resident Conference, Department of Neurology, Mayo Clinic
- 2016 **Neonatal brain imaging.**
 Fellow Conference, Department of Radiology, Mayo Clinic
 Resident Conference, Department of Neurology, Mayo Clinic
- 2017 **Congenital brain anomalies.**
 Resident Conference, Department of Neurology, Mayo Clinic
- 2017 **Imaging anatomy: oral cavity and oropharynx.**
 Resident Conference, Department of Radiation Oncology, Mayo Clinic
- 2017 **Pediatric neuro MRI: tips and tricks.**
 Resident Conference, Department of Radiology, Mayo Clinic
 Resident Conference, Department of Neurology, Mayo Clinic
- 2018 **Global neuroradiology.**
 Resident Conference, Department of Radiology, Mayo Clinic
- 2018 **Head/neck imaging pearls and AJCC update.**
 Resident Conference, Department of Otolaryngology, Mayo Clinic
- 2018 **Advanced head and neck imaging.**
 Research Conference, Departments of Radiation Oncology and Otolaryngology, Mayo Clinic

- 2019 **Advances in head & neck MRI.**
Research Conference, Department of Otolaryngology, Nationwide Children's Hospital
- 2019 **Pediatric temporal bone.**
Department of Radiology, Nationwide Children's Hospital
- 2019 **Advanced neuroimaging research.**
Department of Neurology, Nationwide Children's Hospital
- 2019 – 22 **Epilepsy multidisciplinary conference.**
Fetal imaging conference.
Genetics follow-up conference.
Neurology multidisciplinary conference.
Neuro-oncology multidisciplinary conference.
Neurosurgery multidisciplinary conference.
Otolaryngology multidisciplinary conference.
Nationwide Children's Hospital
- 2020 **Modern neurogenomics: advances in diagnosis and therapy.**
Institute for Genomic Medicine and Department of Radiology, Nationwide Children's Hospital
- 2020 **Pediatric neuro MRI: what's new, what's next?**
Neurodevelopmental Research Affinity Group, Nationwide Children's Hospital
- 2020 **Asian Pacific American Network leadership series.**
Employee Resource Group, Nationwide Children's Hospital
- 2020 **Vascular anomalies from head to toe.**
Hemangioma and Vascular Malformations Clinic, Nationwide Children's Hospital
- 2020 **Becoming a physician-scientist.**
Scientific Writing Series, Nationwide Children's Hospital
- 2020 **Zero-TE MRI of the head and neck.**
Imaging Innovation and Research Conference, Nationwide Children's Hospital
- 2020 **Imaging of spine development.**
Department of Radiology, Nationwide Children's Hospital
- 2020 **Approach to imaging face & neck masses.**
Department of Otolaryngology, Nationwide Children's Hospital and The Ohio State University
- 2020 **Fetal head & neck imaging.**
Department of Otolaryngology, Nationwide Children's Hospital and The Ohio State University
- 2020 – 22 **Imaging of brain development.**
Departments of Radiology and Neurology, Nationwide Children's Hospital and The Ohio State University
- 2021 **Pediatric neuroimaging research.**
Radiology Interest Group, The Ohio State University School of Medicine
- 2021 **Neuro-immune multidisciplinary conference.**
Nationwide Children's Hospital and The Ohio State University
- 2021 **Mentorship in medicine.**
Employee Resource Group, Nationwide Children's Hospital
- 2021 **Diversity in radiology.**
Department of Radiology, Nationwide Children's Hospital
- 2021 **Brain tumors: spectrum of imaging.**
Imaging Genomics Research Affinity Group, Nationwide Children's Hospital
- 2021 **Women in radiology.**
Department of Radiology, Nationwide Children's Hospital

- 2021 **Pediatric epilepsy imaging: current and future practice.**
Departments of Radiology, Neurology, and Neurosurgery, Nationwide Children's Hospital and The Ohio State University
- 2021 **Academic medicine: tips for success.**
Department of Radiology, Nationwide Children's Hospital and The Ohio State University
Employee Resource Group, Nationwide Children's Hospital
- 2021 **Fundamentals of brain MRI.**
Department of Neurology, Nationwide Children's Hospital and The Ohio State University
- 2021 **Brain MRI protocols.**
Department of Neurology, Nationwide Children's Hospital and The Ohio State University
- 2021 **Emergency brain imaging.**
Department of Neurology, Nationwide Children's Hospital and The Ohio State University
- 2021 **Congenital brain anomalies: easy as 1-2-3.**
Department of Neurology, Nationwide Children's Hospital and The Ohio State University
- 2021 **Advanced head & neck imaging.**
Department of Otolaryngology, Nationwide Children's Hospital and The Ohio State University
- 2021 **Phakomatoses from molecules to morphology.**
Department of Neurology, Nationwide Children's Hospital and The Ohio State University
- 2021 **Pediatric spine imaging: spaces, places, and faces.**
Departments of Radiology and Neurology, Nationwide Children's Hospital and The Ohio State University
- 2021 – 22 **Pediatric brain tumors and mimics.**
Departments of Radiology and Neurology, Nationwide Children's Hospital and The Ohio State University
- 2021 – 23 **Imaging genomics updates.**
Research Affinity Group, Nationwide Children's Hospital and The Ohio State University
- 2022 **Arterial spin labeling: clinical applications.**
Departments of Radiology and Neurology, Nationwide Children's Hospital and The Ohio State University
- 2022 **Pediatric stroke and mimics.**
Departments of Radiology and Neurology, Nationwide Children's Hospital and The Ohio State University
- 2022 **Head & neck vascular anomalies and syndromes.**
Departments of Radiology, Neurology, and Otolaryngology, Nationwide Children's Hospital and The Ohio State University
- 2022 **Congenital spine anomalies.**
Department of Radiology, Nationwide Children's Hospital and The Ohio State University
- 2022 **Glymphatic system: anatomy, physiology, and disease.**
Departments of Radiology, Neurology, and Genomics, Nationwide Children's Hospital and The Ohio State University
- 2022 **Pediatric neurodegenerative diseases.**
Departments of Radiology and Neurology, Nationwide Children's Hospital and The Ohio State University
- 2022 **Asian Americans in medicine.**
Department of Biobehavioral Health, Nationwide Children's Hospital
- 2022 **Brain tumors: imaging and molecular updates.**
Neural Tumors Research Forum, Nationwide Children's Hospital and The Ohio State University
- 2022 **Advances in neuroimaging: toward precision health.**
Annual Research Retreat, Nationwide Children's Hospital and The Ohio State University

Extramural Presentations

- 2011 **Beyond semicircular canal dehiscence: spectrum of third window anomalies.**
Lawrie B. Morrison Award, Beth Israel Deaconess Medical Center
Best Oral Presentation, Beth Israel Deaconess Medical Center
American Society of Neuroradiology, Seattle, WA
Eastern Neuroradiological Society, Cape Cod, MA
- 2011 **Clinico-radiologic correlations in invasive fungal disease of the head and neck.**
American Society of Neuroradiology, Seattle, WA
Stephen A. Kieffer Award, Eastern Neuroradiological Society, Cape Cod, MA
- 2012 **Form follows function: anatomic and functional localization of eloquent cortex.**
Radiological Society of North America, Chicago, IL
American Society of Neuroradiology, New York, NY
International Society of Magnetic Resonance in Medicine, Melbourne, Australia
- 2014 **Fetal neck masses: role of MRI in diagnosis and management.**
American Society of Head and Neck Radiology, Seattle, WA
American Society of Neuroradiology, Montreal, Canada
- 2014 **MR neurography and tractography for quantification of birth-related brachial plexus injury.**
Gabriel H. Wilson Award, Western Neuroradiological Society, San Francisco, CA
American Society of Neuroradiology, Chicago, IL
- 2014 **Pediatric neuroimaging cases.**
UCSF Neuroradiology Review, San Francisco, CA
- 2014 **Preterm brain injury at 3T: association of imaging scores with cerebellar growth and neurological outcome.**
Radiological Society of North America, Chicago, IL
American Society of Neuroradiology, Chicago, IL
- 2015 **It's SMART to be ALERT: acute neurological syndromes following radiation therapy.**
American Society of Neuroradiology, Chicago, IL
- 2015 – 22 **Arterial spin labeling: clinical applications.**
American Society of Functional Neuroradiology, virtual meeting
Brigham and Women's Hospital, Boston, MA
Departmental Seminar, St. Jude Children's Research Hospital, Memphis, TN
Mayo Clinic, Rochester, MN
University of Cincinnati, Cincinnati, OH
XXII Jornada Pernambucana de Radiologia, Sociedade de Radiologia de Pernambuco, Colégio Brasileiro de Radiologia e Diagnóstico por Imagem, Recife, Brazil
- 2016 **Pediatric diffusion-perfusion study group.**
American Society of Functional Neuroradiology, Austin, TX
- 2016 **Challenges in managing epilepsy associated with malformations in cortical development in children: overview of imaging techniques.**
AES Children's Hour, American Epilepsy Society, Houston, TX
- 2016 **Classifying the large vestibular aqueduct: morphometry to audiometry.**
American Society of Head and Neck Radiology, Washington, DC
- 2016 – 19 **Craniofacial imaging: basic to advanced.**
Hospital das Clínicas, Recife, Brazil
Midwest Head and Neck Radiology, Madison, WI
- 2016 – 21 **Phakomatoses: molecules to morphology.**
Pearls and pitfalls in pediatric phakomatosis.
Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA
Boston Children's Hospital, Boston, MA
Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Lurie Children's Hospital, Chicago, IL
 Mayo Clinic Neuroradiology: Practice to Innovation, Grand Cayman, Cayman Islands
 MD Anderson Cancer Center, Houston, TX
 MRIOOnline.com, virtual meeting
 Neurology Grand Rounds, Nemours Children's Hospital and Mayo Clinic, Jacksonville, FL
 Northwestern University, Chicago, IL
 Pediatric Head and Neck Self-Assessment Module, Eastern Neuroradiological Society, Southampton, Bermuda
 Pediatrics Self-Assessment Module, ASNR General Session, American Society of Neuroradiology, Long Beach, CA
 University of Alabama at Birmingham, Birmingham, AL
 University of California at Davis, Sacramento, CA
 University of Iowa, Iowa City, IA
 University of Washington, Seattle, WA
 The Hospital for Sick Children, Toronto, Ontario, Canada

2016 – 22

Congenital spine anomalies: an embryologic approach.

Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA
 Brigham and Women's Hospital, Boston, MA
 Mayo Clinic Neuroradiology: Practice to Innovation, Grand Cayman, Cayman Islands
 Neuroradiology: Review for the Practicing Radiologist, American Roentgen Ray Society Symposium, New Orleans, LA
 Pernambuco Radiology Grand Rounds, Recife, Brazil
 The Hospital for Sick Children, Toronto, Ontario, Canada
 Western Neuroradiological Society, Kauai, HI

2017

Imaging anatomy: oral cavity and oropharynx.

Mayo Clinic Radiation Oncology: Current Practice and Future Directions, Maui, HI

2017 – 19

Imaging the child with proptosis.

American Society of Head and Neck Radiology, Savannah, GA
 Hospital Getúlio Vargas, Recife, Brazil
 Pearls and Pitfalls of Pediatric Head & Neck Imaging: An Interactive Review, Radiological Society of North America

2017 – 19

Approach to pediatric face and neck masses.

American Society of Head and Neck Radiology, Las Vegas, NV
 Instituto Materno Infantil de Pernambuco, Recife, Brazil
 The Hospital for Sick Children, Toronto, Ontario, Canada

2017 – 19

New pediatric neuroimaging applications.

Maximizing diagnostic yield in pediatric neuroimaging.

Special techniques in pediatric MRI.

Advances in Pediatric Neuroimaging, American Society of Functional Neuroradiology, Coronado, CA
 Hospital da Restauração, Recife, Brazil
 Institutional Grand Rounds, St. Jude Children's Research Hospital, Memphis, TN
 MD Anderson Cancer Center, Houston, TX
 Neuroradiology Grand Rounds, University of Toronto, Toronto, Ontario, Canada
 Neuroradiology Midday Workshop Session: Balancing Efficiency and Accuracy in Pediatric Neuroimaging, Society for Pediatric Radiology, Nashville, TN
 Pediatric Acute Care Symposium, Hanoi, Vietnam
 Visiting Professorship, Nationwide Children's Hospital, Columbus, OH
 Visiting Professorship, University of North Carolina, Chapel Hill, NC
 Visiting Professorship, Texas Children's Hospital, Houston, TX
 What's New in Pediatric Neuroimaging, The Foundation of the ASNR Symposium, American Society of Neuroradiology, Long Beach, CA
 Radiological Society of North America, Chicago, IL

- 2017 – 20 **Congenital brain anomalies: easy as 1-2-3.**
 Beth Israel Deaconess Medical Center, Boston, MA
 Brigham and Women's Hospital, Boston, MA
 International Pediatric Conference, Da Nang, Vietnam
 Karolinska Institutet, Stockholm, Sweden
 Mayo Clinic Florida, Jacksonville, FL
 Paul Dyken Scholarship Lecture, Southern Pediatric Neurology Society, New Orleans, LA
 Pernambuco Radiology Grand Rounds, Recife, Brazil
 The Hospital for Sick Children, Toronto, Ontario, Canada
 Tripler Army Medical Center, Honolulu, HI
 Updates in Pediatrics Symposium, Hue, Vietnam
- 2018 **Multidisciplinary tumor boards–oropharyngeal & laryngeal cancer.**
 Multidisciplinary Transoral Surgery Course for Head and Neck Cancer, Scottsdale, AZ
- 2018 – 19 **Essential neuroradiology sequences for evaluating children.**
 Hospital das Clínicas, Recife, Brazil
 Sunrise Session: MR Techniques for Imaging Children, Society for Pediatric Radiology, Nashville, TN
- 2018 – 19 **Adult and pediatric brain tumors: the cutting edge.**
 Instituto Materno Infantil de Pernambuco, Recife, Brazil
 Neuroradiology: Review for the Practicing Radiologist, American Roentgen Ray Society, New Orleans, LA
- 2018 – 19 **Neonatal brain imaging.**
 Hue University of Medicine and Pharmacy, Hue, Vietnam
 Hospital Barão de Lucena, Recife, Brazil
- 2018 – 21 **Upper aerodigestive tract: imaging pearls and AJCC update.**
 Brigham and Women's Hospital, Boston, MA
 Hospital Barão de Lucena, Recife, Brazil
 Multidisciplinary Transoral Surgery Course for Head and Neck Cancer, Scottsdale, AZ
- 2018 – 22 **Brain development: normal, variants, pitfalls.**
 Beth Israel Deaconess Medical Center, Boston, MA
 Brigham and Women's Hospital, Boston, MA
 MRIOOnline.com, virtual meeting
 Pediatrics Self-Assessment Module, Western Neuroradiological Society, Dana Point, CA
 Karolinska Institutet, Stockholm, Sweden
 XXII Pernambucana de Radiologia, Sociedade de Radiologia de Pernambuco, Colégio Brasileiro de Radiologia e Diagnóstico por Imagem, Recife, Brazil
- 2019 **7 Tesla MRI: pediatric applications.**
 SAM Session: Advanced Pediatric Neuroimaging, American Society of Pediatric Neuroradiology, New Orleans, LA
- 2019 **Imaging of pediatric epilepsy.**
 XXII Jornada Pernambucana de Radiologia, Sociedade de Radiologia de Pernambuco, Colégio Brasileiro de Radiologia e Diagnóstico por Imagem, Recife, Brazil
- 2019 **Child with skull base trauma.**
 Case-Based Emergency Radiology, Society for Pediatric Radiology, San Francisco, CA
 Hospital Getúlio Vargas, Recife, Brazil
- 2019 **Closed spinal dysraphisms.**
 American Society of Spine Radiology, Miami, FL
- 2019 **Zero echo-time MRI for radiation-free pediatric bone imaging.**
 Hanafée Award Presentation, American Society of Head and Neck Radiology, Scottsdale, AZ
 Introduction to Research Program, R&E Foundation, Radiological Society of North America, Chicago, IL

- 2019 **Accelerated neuro MRI.**
Advances in pediatric MRI.
Advanced Topics in Pediatric MRI, Society for Pediatric Radiology, San Francisco, CA
Eastern Neuroradiological Society, Brooklyn Heights, NY
Hospital da Restauração, Recife, Brazil
- 2019 – 20 **Emergency brain imaging.**
Brigham and Women's Hospital, Boston, MA
XXII Jornada Pernambucana de Radiologia, Sociedade de Radiologia de Pernambuco,
Colégio Brasileiro de Radiologia e Diagnóstico por Imagem, Recife, Brazil
- 2019 – 20 **Brain development: genetics to imaging.**
Boston Children's Hospital, Boston, MA
Pediatrics Session, American Society of Functional Neuroradiology, San Francisco, CA
- 2019 – 21 **Pediatric jaw lesions.**
SAM Session: Jaws, American Society of Head and Neck Radiology, Scottsdale, AZ
SAM Session: Facial Bones: Bad to the Bone, American Society of Head and Neck Radiology,
virtual meeting
- 2020 **High and ultra-high-field spine MRI.**
New Horizons for Diagnostic and Interventional Spine, American Society of Spine Radiology,
Dana Point, CA
- 2020 **Pediatric spine: pitfalls & mimics.**
Beth Israel Deaconess Medical Center, Boston, MA
Improving Performance: Peer Learning and Beyond, American Roentgen Ray Society, virtual
meeting
- 2020 **How to build a research portfolio in academic neuroradiology.**
Eastern Neuroradiological Society, virtual meeting
- 2020 **Nomag® for neonatal MRI.**
Eastern Neuroradiological Society, virtual meeting
- 2020 **Pediatric stroke: is that a real thing?**
Western Neuroradiological Society, virtual meeting
- 2020 – 21 **Zero-TE MRI: can it replace CT?**
American Society of Head and Neck Radiology, virtual meeting
ASNR/ASFNR Artificial Intelligence Workshop, virtual meeting
Research & Education Foundation Symposium and Honors Ceremony, Society for Pediatric
Radiology, virtual meeting
- 2020 – 22 **Modern neurogenomics: advances in diagnosis and therapy.**
Metabolic Session, American Society of Pediatric Neuroradiology, Miami, FL
Innovations in Neuroscience Drug Discovery, Annual Congress of International Drug
Discovery Science and Technology, Tokyo, Japan
- 2020 – 22 **Pediatric functional MRI.**
American Society of Functional Neuroradiology, virtual meeting
Paul Dyken Scholarship Lecture, Southern Pediatric Neurology Society, New Orleans, LA
- 2021 **fMRI for epilepsy diagnosis and treatment.**
Evidence-Based Medicine Session, American Society of Neuroradiology, virtual meeting
- 2021 **MRI of brain development.**
Pediatrics Session, International Society for MR Radiographers & Technologists, virtual
meeting
- 2021 **Bone MRI and synthetic CT: toward radiation-free bone imaging.**
ASFNR Presents AI for Neuroradiology, virtual meeting
American Society of Neuroradiology, virtual meeting
International Society for Magnetic Resonance in Medicine, virtual meeting

- 2021 **Asian Americans in medicine.**
Asian Pacific American Medical Student Association, virtual meeting
- 2021 **Neurodevelopmental disorders: genetics & neurophysiology.**
Neurodevelopmental Disorders Session, International Society for Magnetic Resonance in Medicine, virtual meeting
- 2021 **Multidelay ASL: added value for pediatric neuroimaging.**
American Society of Neuroradiology, virtual meeting
- 2021 **Challenges in open science.**
Organization for Human Brain Mapping, virtual meeting
- 2021 **Pediatric imaging: roadmap to the future.**
Nemours Children's Health System, Wilmington, DE
- 2021 **Pediatric translational imaging and informatics.**
Stanford University, Stanford, CA
- 2021 **Neuroimaging of epilepsy.**
Neuroradiology Module, International Child Neurology Teaching Network, virtual meeting
- 2021 **Evidence based best practices for seizure imaging, current practice and future directions including 7T, DTI and connectome.**
Eastern Neuroradiological Society, virtual meeting
- 2021 **Academic radiology: tips for success.**
Brigham and Women's Hospital, Boston, MA
- 2021 **Spine malformations: concepts and controversies from the International Consensus Group.**
American Society of Spine Radiology, virtual meeting
- 2021 – 22 **Advanced imaging of the pediatric head and neck.**
Categorical Course: Neuro/Head & Neck Tips for Specialists, International Pediatric Radiology Congress, Rome, Italy
Nemours Children's Health System, Wilmington, DE
Improving Pediatric Radiology Protocols Course, Society for Pediatric Radiology, virtual meeting
Magnetic Resonance and Ultrasound Session, International Conference on Medical Imaging and Case Reports, virtual meeting
- 2021 – 22 **Pediatric epilepsy imaging: current and future practice.**
Garrahan Hospital, Buenos Aires, Argentina
Grand Rounds, The University of Texas at Austin Dell Medical School, Austin, TX
Korle-Bu Teaching Hospital, Accre, Ghana
International Imaging Series, American Society of Neuroradiology, virtual meeting
Lurie Children's Hospital, Chicago, IL
Nemours Children's Health System, virtual meeting
Stanford University, Stanford, CA
University of Minnesota, Minneapolis, MN
- 2021 – 22 **Head & neck vascular anomalies and syndromes.**
Brigham and Women's Hospital, Boston, MA
- 2021 – 22 **Pediatric brain tumors and mimics.**
Brain Tumors: From Child to Adult, American Roentgen Ray Society, New Orleans, LA
Brigham and Women's Hospital, Boston, MA
CNS Tumors and Mimics, American Roentgen Ray Society, virtual meeting
- 2021 – 22 **Pediatric neurodegenerative diseases.**
Western Neuroradiological Society, Reno, NV
Brigham and Women's Hospital, Boston, MA

- 2021 – 22 **Pediatric stroke and mimics.**
Brigham and Women's Hospital, Boston, MA
International Conference on Pediatric and Child Neurology, Dubai, United Arab Emirates
- 2022 **Head CT.**
Radiological Society of Pakistan, virtual meeting
- 2022 **Brain MRI.**
Radiological Society of Pakistan, virtual meeting
- 2022 **Neuroradiology signs.**
Radiological Society of Pakistan, virtual meeting
- 2022 **Transformative radiology: roadmap to the future.**
Children's National Hospital, Washington, DC
Michigan State University, East Lansing, MI
University of Arkansas, Little Rock, AR
The Hospital for Sick Children, Toronto, Canada
- 2022 **The future of AI in radiology and health care.**
Keynote Forum, International Conference and Expo on Artificial Intelligence and Deep Learning, Amsterdam, Netherlands
- 2022 **Designing destiny: your career in MR.**
International Society for Magnetic Resonance in Medicine, virtual meeting
- 2022 **Finding your voice: uniqueness and diversity in academic medicine.**
Asian Pacific American Medical Student Association National Conference, Columbus, OH
- 2022 **Pediatric spine imaging: spaces, places, and faces.**
Brigham and Women's Hospital, Boston, MA
- 2022 **Pediatric neck masses: imaging guidelines and recommendations.**
Pediatric Neuroimaging Session, Practical Imaging Guidelines and Recommendations for Pediatric Disorders, American Roentgen Ray Society Instructional Course, New Orleans, LA
- 2022 **Imaging of head & neck cancer.**
Head and Neck Cancer Session, Symposium on World Cancer Research, Singapore, Singapore
- 2022 **Zero-TE MRI.**
Keynote Speaker, World Dental and Oral Health Conference, Dubai, United Arab Emirates
Spine Imaging Innovations Session, American Society of Spine Radiology, Austin, TX
World Congress of Orthopaedics, Lisbon, Portugal
- 2022 **Brain tumors: imaging and molecular updates.**
Brain Tumors: From Molecules to MRI, Joint Annual Meeting of International Society for Magnetic Resonance in Medicine—European Society for Magnetic Resonance in Medicine and Biology, London, England, United Kingdom
International Cancer Conference, virtual meeting
International Conference on Oncology and Radiology, virtual meeting
MRIOnline.com, virtual meeting
- 2022 **ZTE: clinical neuroimaging applications.**
No Time to Wait! Increasing the Value of MRI with Zero Echo Time, International Society for Magnetic Resonance in Medicine, London, England, United Kingdom
- 2022 **Neurofluid circulation: anatomy, physiology, and disease.**
Brigham and Women's Hospital, Boston, MA
Keynote Speaker, Utrecht Brain Conference, UMC Utrecht Brain Center, Utrecht, Netherlands
Perfusion MRI for Mapping Neurofluid Circulation and Exchange, International Society for Magnetic Resonance in Medicine, London, England, United Kingdom

- 2022 **Pediatric MRI safety: clinical considerations.**
Pediatric MRI Safety, International Society for Magnetic Resonance in Medicine, London, England, United Kingdom
- 2022 **Pediatric neurovascular disorders.**
Symposium Neuroradiologicum XXII, World Federation of Neuroradiological Societies, New York, NY
- 2022 **Arterial spin labeling of pediatric and adult neurologic diseases.**
American Society of Functional Neuroradiology, virtual meeting
- 2022 **Advanced imaging techniques in pediatric neuroradiology.**
Pediatrics Session, Eastern Neuroradiological Society, Burlington, VT
- 2022 **Pediatric neuroimaging: state-of-the-art.**
American Society of Functional Neuroradiology, Maui, Hawaii
SPIN Academics, virtual meeting
Toronto Hospital for Sick Children, Toronto, Canada
- 2022 **Women in radiology.**
The Academy for Radiology & Biomedical Imaging Research, virtual meeting
- 2022 **Pediatric orbital and ocular masses.**
American Society of Head and Neck Radiology, Aurora, CO
- 2022 **MRI from low to high.**
Western Neuroradiological Society, Indian Wells, CA
- 2022 **Intelligent pediatric neuroimaging.**
AI: Intelligent Clinical Neuroimaging, Radiological Society of North America, Chicago, IL
- 2022 – 23 **Sensorineural hearing loss.**
All About the Temporal Bone, Radiological Society of North America, Chicago, IL
American Society of Pediatric Otolaryngology Summer Meeting, Vail, CO
- 2023 **Early signs of metabolic disease: improving prognosis.**
American Society of Pediatric Neuroradiology, New Orleans, LA
- 2023 **Congenital brain anomalies: an integrated diagnostic approach.**
International Conference on Neurology and Neuro Disorders, Paris, France
- 2023 **Tumor board: clival chordoma.**
North American Skull Base Society, Tampa, FL
- 2023 **ZTE: new methods for bone imaging.**
Leading Edge of Neuroradiology Advances, Computer Science/Informatics Session, American Society of Neuroradiology, Chicago, IL

Session Moderation

- 2015 **Intracranial pressure and CSF flow dynamics.**
The Foundation of the ASNR Symposium, American Society of Neuroradiology, Chicago, IL
- 2016 **Pediatrics: head injury, spine techniques, and radiation dose.**
ASPNR Parallel Paper Session, American Society of Neuroradiology, Washington, DC
- 2017 **Deep dive on pediatric spine.**
Pediatrics Session, American Society of Spine Radiology, San Diego, CA
- 2017 **Pediatric focus session.**
Western Neuroradiological Society, Kauai, HI
- 2017 **Neuroradiology poster discussions.**
Radiological Society of North America, Chicago, IL
- 2018 **Brain: new and advanced techniques.**
American Society of Neuroradiology, Vancouver, BC, Canada
- 2019 **Morning case session: head & neck.**
Self-Assessment Module, American Society of Neuroradiology, Boston, MA

- 2021 **Artificial intelligence (machine learning & deep learning) applications to neuroradiology.**
International Society for Magnetic Resonance in Medicine, virtual meeting
- 2021 **More psych, metabolic, infectious & rare diseases.**
International Society for Magnetic Resonance in Medicine, virtual meeting
- 2021 **Parapharyngeal space.**
HNxHN, American Society of Head and Neck Radiology & European Society of Head and Neck Radiology, virtual meeting
- 2021 **Pediatric spine imaging and intervention.**
ASSR-ESNR International Spine Webinar, virtual meeting
- 2022 **Pediatric head and neck imaging.**
Improving Pediatric Radiology Protocols Course, Society for Pediatric Radiology, virtual meeting
- 2022 **Magnetic resonance and ultrasound.**
Session Chair, International Conference on Medical Imaging and Case Reports, virtual meeting
- 2022 **Neuro-oncology and head & neck cancers.**
Session Chair, Symposium on World Cancer Research, Singapore, Singapore
- 2022 **Neuro MRI expert.**
International Society for Magnetic Resonance in Medicine, London, England, United Kingdom
- 2022 **Image reconstruction.**
International Society for Magnetic Resonance in Medicine, London, England, United Kingdom
- 2022 **Speed mentoring session.**
International Society for Magnetic Resonance in Medicine, London, England, United Kingdom
- 2022 **Antenatal, neonatal & pediatric MRI: congenital & acquired insults in the developing brain.**
International Society for Magnetic Resonance in Medicine, London, England, United Kingdom
- 2022 **Spine imaging: what does the future hold?**
American Society of Spine Radiology Session, American Society of Neuroradiology and Symposium Neuroradiologicum, New York, NY
- 2022 **All about the temporal bone.**
Radiological Society of North America, Chicago, IL

Report of Scholarship

Funded Research Projects

- 2005 ***Molecular neurobiology of synaptic plasticity.***
Co-Investigator, **National Institutes of Health Award**, Washington University
Award Amount: \$5,000
Evaluated genetic regulatory pathways for synaptic growth and development in *Drosophila melanogaster*; performed bioinformatic sequence analyses to correlate molecular structure with functional plasticity.
- 2006 ***Quantitative neuroimaging of neonatal brain development.***
Co-Investigator, **National Institutes of Health Award**, Washington University
Award Amount: \$5,000
Modeled neonatal brain sulcation, using data from 70 infant MRI scans; integrated modules for segmentation and surface reconstruction into existing 3D imaging software.
- 2007 ***Advanced angiographic acquisition and reconstruction.***
Co-Investigator, **Hugh M. Wilson Award**, Washington University School of Medicine
Award Amount: \$5,000
Developed noncontrast peripheral MRA protocol; automated 3D CTA reconstructions for pre-stent aneurysm evaluation; compiled 5,000+ cases for body/cardiac imaging teaching files.

- 2008 ***Anatomic review of partial anomalous pulmonary venous return.***
Principal Investigator, **Society of Thoracic Radiology Research Award**
Award Amount: \$8,000
Evaluated 47 cases of partial anomalous pulmonary venous return for anatomic variations and association with sinus venosus atrial septal defect.
- 2011 ***Clinico-radiologic correlation of invasive fungal disease in the head and neck.***
Principal Investigator, **Stephen A. Kieffer Award, Eastern Neuroradiological Society**
Award Amount: \$5,000
Correlated neuroimaging and clinical features in 24 patients with invasive fungal disease of the head and neck.
- 2011 – 2013 ***Sodium-23 MRI for seizure focus localization in epileptic patients.***
Principal Investigator, **RSNA Resident/Fellow Research Grant RR1118**
Award Amount: \$30,000
Developed sodium-23 MRI protocol for patients with medically intractable partial epilepsy and correlated results with conventional proton MRI.
- 2012 – 2013 ***Head CT predictors of patient outcome following cardiac arrest.***
Co-Investigator, **NIH Clinical and Translational Science Award**
Award Amount: \$250,000
Evaluated head CT gray-white matter attenuation ratio as a predictor of patient mortality and neurologic outcome in 79 patients post-cardiac arrest.
- 2014 ***MR neurography and tractography of brachial plexus injury.***
Principal Investigator, **Gabriel H. Wilson Award, Western Neuroradiological Society**
Award Amount: \$5,000
Utilized MR neurography and diffusion tensor imaging in 32 pediatric patients with brachial plexus injury to predict functional outcomes and need for surgical intervention.
- 2014 – 2015 ***Advanced imaging biomarkers of preterm birth.***
Principal Investigator, **Society for Pediatric Radiology Research Fellow Award**
Award Amount: \$30,000
Principal Investigator, **UCSF Radiology and Biomedical Imaging Grant 14-08**
Award Amount: \$50,000
Implemented a standardized scoring system for cerebellar hemorrhage in preterm infants using MRI at 3 Tesla, correlated findings with supratentorial injury and volumetric analysis, and determined predictive value for long-term cognitive and motor outcomes.
- 2016 – 2017 ***Imaging morphometry of syndromic craniosynostosis.***
Principal Investigator, **Radiology Research Award, Department of Radiology, Mayo Clinic**
Award Amount: \$50,000
Performed 3D morphometry and clinical correlation in patients with syndromic craniosynostosis in conjunction with neurosurgery, oromaxillofacial surgery, plastic surgery, medical anthropology, and genetics.
- 2017 – 2019 ***Neurodevelopment of children exposed to anesthesia: a population-based assessment.***
Co-Investigator, **NICHD R01 HD071907**
Award Amount: \$1,700,000
Principal Investigator, **Advance Award, Department of Radiology, Mayo Clinic**
Award Amount: \$50,000
Examined multimodality imaging biomarkers for anesthesia-related neurotoxicity in the Mayo Anesthesia Safety for Kids (MASK) cohort of the Rochester Epidemiology Project. Correlated volumetry, diffusion tensor imaging, task-based and resting-state functional MRI, and MR spectroscopy with neuropsychiatric testing and standardized exams.

- 2018 – 2021 ***Zero echo-time MRI for radiation-free pediatric bone imaging.***
Principal Investigator, **Siemens Healthineers / RSNA Research Scholar Grant RSCH1804**
Award Amount: \$150,000
Principal Investigator, **Society for Pediatric Radiology Pilot Award**
Award Amount: \$50,000
Developed zero echo-time MRI for radiation-free craniofacial bone imaging with technical physics and deep learning optimization. Compared ZTE versus CT using radiologist scoring, 3D modeling, and virtual surgical planning.
- 2018 – 2021 ***Zero echo-time MRI: a new tool for head & neck imaging.***
Principal Investigator, **ASHNR William N. Hanafee Research Grant**
Award Amount: \$25,000
Developed zero echo-time MRI for head & neck radiology applications including cortical bone imaging, airway imaging, and PET/MRI attenuation correction. Established standardized ZTE protocols across multiple MRI platforms and acquired a population-based dataset of craniofacial anatomy and pathology.
- 2019 – 2021 ***Neuroimaging and electrophysiological correlates and neurodevelopment in a cohort of infants with neonatal abstinence syndrome.***
Co-Investigator, **Cardinal Health Foundation Research Grant 030-92053-933**
Award Amount: \$350,000
Prospectively characterized a cohort of 200 infants with neonatal abstinence syndrome requiring treatment over a two-year period. Compared advanced MRI metrics, functional electroencephalography, and longitudinal neurodevelopmental features to a matched cohort of typically developing infants.
- 2019 – 2021 ***I-ROAR: imaging registry for orphan and rare diseases.***
Co-Investigator and Neuroradiology Principal Investigator, **ACR Innovation Fund Grant**
Award Amount: \$100,000
Developing multicenter infrastructure for image/data sharing and analysis in rare genetic disorders. This initiative will facilitate research into quantitative imaging biomarkers and a personalized medicine approach to diagnosis, prognosis, and therapy.
- 2019 – 2021 ***Imaging metrics of Batten disease.***
Co-Investigator, **Amicus Therapeutics and BioMarin Pharmaceuticals**
Award Amount: \$200,000
Performing multimodal MRI evaluation of children with CLN3 and CLN6 subtypes of Batten disease (neuronal ceroid lipofuscinosis). Clinical trial design for patients imaged at baseline and at 1-year intervals following experimental gene therapy. Correlating quantitative imaging biomarkers, including global and region-specific volumetric and diffusion parameters, with neurologic scores and electroencephalography.
- 2020 – 2022 ***Imaging DMD: Givinostat in patients with Duchenne muscular dystrophy.***
Site Principal Investigator, **Italfarmaco Clinical Trial DCS/14/2357/48**
Award Amount: \$2,000,000
Multicenter randomized, double-blind, placebo-controlled study evaluating efficacy and safety of givinostat in ambulant patients with Duchenne muscular dystrophy. Patients enrolled in the clinical trial are imaged at baseline, 12 months, and 18 months after enrollment. MRI protocols include multiecho Dixon with T2 relaxometry to calculate muscle water and fat fraction, as well as MR spectroscopy for metabolite ratios.
- 2020 – 2023 ***Imaging genomics research affinity group.***
Faculty Lead and Principal Investigator, **Research Affinity Group Program, The Research Institute at Nationwide Children's Hospital**
Award Amount: \$75,000
Fostering interdisciplinary collaborations and providing support to investigators interested in translational omics research, big data informatics, and precision medicine. The group facilitates cutting-edge interdisciplinary research in imaging genomics by establishing university collaborations and developing content expertise in quantitative advanced imaging, multi-omics, and translational data analytics.

- 2021 – 2022 **Impact of CFTR modulator therapy Elexacaftor-Tezacaftor-Ivacaftor on CF-related chronic sinus disease.**
Co-Investigator, **CHEST Foundation Research Grant in Cystic Fibrosis**
Award Amount: \$30,000
Quantifying imaging biomarkers of cystic fibrosis-related chronic sinusitis before and during Trikafta therapy in adolescents and adults with CF. We are comparing two CT-based scoring systems (Sheikh-Lind and Lund-Mackay) in correlation with clinical outcomes including spirometry, sweat chloride test, body mass index, and antibiotic needs before and at one year on therapy.
- 2021 – 2022 **International spine webinar series.**
Co-Investigator, Bayer Healthcare Medical Education Grant
Award Amount: \$2,500
Created international teaching outreach series in collaboration with the American Society of Spine Radiology, American Society of Neuroradiology, and European Society of Neuroradiology. Developed program content, invited speakers, moderated interactive sessions, supervised social media outreach, and provided continuing medical education.
- 2021 – 2023 **Dissecting mechanisms underlying brain calcification in TSC.**
Co-Investigator, **DOD TSCR P Exploration-Hypothesis Development Award TS200051**
Award Amount: \$250,000
Investigating molecular mechanisms for epileptogenesis and brain calcification in tuberous sclerosis complex, focusing on the role of pericytes in blood-brain barrier functionality, neuroimmune regulation, and extracellular matrix remodeling. Using patient-derived specimens, an in vitro transwell BBB model, and MRI data, we will correlate TSC genotypes with brain calcification, seizure burden and drug resistance.
- 2021 – 2026 **Longitudinal neuroimaging in Sturge-Weber syndrome.**
Co-Investigator, **NIH R01 NS 041922**
Award Amount: \$1,500,000
Validating multiparametric MRI biomarkers including diffusion, perfusion, and angiography in children with Sturge-Weber syndrome. We are evaluating longitudinal imaging changes and correlating with tissue genetic analysis and long-term neurocognitive outcomes.
- 2021 – 2026 **A comprehensive deep learning framework for MRI reconstruction.**
Site Principal Investigator, **NIBIB R01 EB029957**
Award Amount: \$2,000,000
Developing and validating a comprehensive deep learning framework for accelerated MRI acquisition and reconstruction for 3D T1-weighted and 2D T2-weighted brain imaging in pediatric headache and brain tumors. Compared to compressed sensing, this approach is more resistant to variations in data input, enabling improved generalization across clinical applications and acquisition settings.
- 2021 – 2026 **Translational imaging (I³) core facility.**
Director and Principal Investigator, Nationwide Children's Hospital Foundation
Award Amount: \$10,000,000
Creating enterprise infrastructure for medical imaging investigators throughout Nationwide Children's Hospital and Research Institute, accelerating collaboration and translation of basic science & engineering discoveries into clinical care. Our three focus areas (I³) are imaging acquisition (advanced techniques for interrogating tissue structure and function), imaging analysis (quantitative and reproducible feature extraction), and imaging informatics (big data approaches for integrated diagnostics). This interdisciplinary group will establish a referral center of excellence for precision health, radiogenomics, and artificial intelligence.

Peer-Reviewed Publications

1. Weaver D, Karoonuthaisiri N, Tsai HH, Huang CH, **Ho ML**, Gai S, Patel KG, Huang J, Cohen SN, Hopwood DA, Chen CW, Kao CM. Genome plasticity in *Streptomyces*: identification of 1 Mb TIRs in the *S. coelicolor* A3(2) chromosome. *Mol Microbiol.* 2004 Mar;51(6):1535-50. PMID: 15009883.

2. **Ho ML**, Liu J, Narra V. Magnetic resonance imaging of rectal cancer. *Clin Colon Rectal Surg*. 2008 Aug;21(3):178-87. PMID: 20011416; PMCID: 2780213.
3. Gutierrez FR, **Ho ML**, Siegel MJ. Practical applications of magnetic resonance in congenital heart disease. *Magn Reson Imaging Clin N Am*. 2008 Aug;16(3):403-35, v. Review. PMID: 18585596.
4. **Ho ML**, Raptis C, Hulett R, McAlister WH, Moran K, Bhalla S. Adenomyotic cyst of the uterus in an adolescent. *Pediatr Radiol*. 2008 Nov;38(11):1239-42. PMID: 18679611.
5. Hidalgo A, **Ho ML**, Bhalla S, Woodard PK, Billadello JJ, Gutierrez FR. Inferior type sinus venosus atrial septal defect: MR findings. *J Thorac Imaging*. 2008 Nov;23(4):266-8. PMID: 19204471.
6. **Ho ML**, Gutierrez FR. Chest radiography in thoracic polytrauma. *AJR Am J Roentgenol*. 2009 Mar;192(3):599-612. Review. PMID: 19234253.
7. **Ho ML**, Bhalla S, Bierhals A, Gutierrez F. MDCT of partial anomalous pulmonary venous return (PAPVR) in adults. *J Thorac Imaging*. 2009 May;24(2):89-95. PMID: 19465830.
8. **Ho ML**, Masand P, Gutierrez FR. Left ventricular myocardial bands: MDCT and MR appearance. *J Thorac Imaging*. 2009 May;24(2):119-24. PMID: 19465835.
9. **Ho ML**, Ratts V, Merritt D. Adenomyotic cyst in an adolescent girl. *J Pediatr Adolesc Gynecol*. 2009 Jun;22(3):e33-8. PMID: 19539194.
10. **Ho ML**, Rojas R, Eisenberg RL. Cerebral edema. *AJR Am J Roentgenol*. 2012 Sep;199(3):W258-73. PMID: 22915416.
11. **Ho ML**, Moonis G, Ginat DT, Eisenberg RL. Lesions of the corpus callosum. *AJR Am J Roentgenol*. 2013 Jan;200(1):W1-16. Review. PMID: 23255767.
12. Khoury MN, Alsop DC, Agnihotri SP, Pfannl R, Wuthrich C, **Ho ML**, Hackney DB, Ngo L, Anderson M, Koranik JJ. Hyperintense cortical signal on magnetic resonance imaging reflects focal leukocortical encephalitis and seizure risk in progressive multifocal leukoencephalopathy. *Ann Neurol*. 2014 May;75(5):659-69. PMID: 24752885, PMCID: 4426496.
13. Cristia C, **Ho ML**, Levy S, Giberson T, Saliccoli J, Cocchi MN, Saindon B, Donnino M. The association between a quantitative computed tomography (CT) measurement of cerebral edema and outcomes in post-cardiac arrest - a validation study. *Resuscitation*. 2014 Oct;85(10):1348-53. PMID: 24892267, PMCID: 4172369.
14. **Ho ML**, Juliano A, Eisenberg RL, Moonis G. Anatomy and pathology of the facial nerve. *AJR Am J Roentgenol*. 2015 Jun;204(6):W612-9. PMID: 26001250.
15. Kim H, Gano D, **Ho ML**, Guo XM, Unzueta A, Hess C, Ferriero DM, Xu D, Barkovich AJ. Hindbrain regional growth in preterm newborns and its impairment in relation to brain injury. *Hum Brain Mapp*. 2016 Feb;37(2):678-88. PMID: 26589992, PMCID: 5094861.
16. **Ho ML**, Courtier J, Glastonbury CM. The ABCs (airway, blood vessels, and compartments) of pediatric neck infections and masses. *AJR Am J Roentgenol*. 2016 May;206(5):963-72. PMID: 26959095.
17. **Ho ML**, Patton A, DeLone D, Kim HS, Gilbertson J, Felmlee J, Watson RE. Brain injury in the preterm and term neonate. *Curr Radiology Rep* 2016 Jul; 4(39). DOI: 10.1007/s40134-016-0161-0.
18. Gano D, **Ho ML**, Partridge JC, Glass HC, Xu D, Barkovich AJ, Ferriero DM. Antenatal exposure to magnesium sulfate is associated with reduced cerebellar hemorrhage in preterm newborns. *J Pediatr*. 2016 Nov;178:68-74. PMID: 27453378, PMCID: 5085851.
19. **Ho ML**, Glastonbury CM, Glenn OA. Fetal magnetic resonance imaging of head and neck anomalies. *J Pediatr Neuroradiol* 2016; 05(03): 112-136. DOI: 10.1055/s-0036-1593423.
20. **Ho ML**, Mardini S, Wetjen NM. Craniosynostosis syndromes: genetics to imaging. *J Pediatr Neuroradiol* 2016; 05(03): 150-163. DOI: 10.1055/s-0036-1593421.
21. Kenney-Jung DL, Vezzani A, Kahoud RJ, LaFrance-Corey RG, **Ho ML**, Muskardin TW, Wirrell EC, Howe CL, Payne ET. Febrile infection-related epilepsy syndrome treated with anakinra. *Ann Neurol*. 2016 Dec;80(6):939-945. PMID: 27770579, PMCID: 5225882.
22. **Ho ML**, Moonis G, Halpin C, Curtin HD. Spectrum of third window abnormalities: semicircular canal dehiscence and beyond. *AJNR Am J Neuroradiol*. 2017 Jan;38(1):2-9. PMID: 27561833.
23. **Ho ML**, Campeau NG, Ngo TD, Udayasankar UK, Welker KM. Pediatric brain MRI, part 1: basic techniques. *Pediatr Radiol*. 2017 May;47(5):534-543. PMID: 28409254.
24. **Ho ML**, Campeau NG, Ngo TD, Udayasankar UK, Welker KM. Pediatric brain MRI, part 2: advanced techniques. *Pediatr Radiol*. 2017 May;47(5):544-555. PMID: 28409252.

25. **Ho ML**, Glenn OA, Sherr EH, Strober JB. Serial prenatal and postnatal MRI of dystroglycanopathy in a patient with familial B3GALNT2 mutation. *Pediatr Radiol*. 2017 Jun;47(7):884-888. PMID: 28303321.
26. Anzalone CL, **Ho ML**, Patel NS, Schimmenti LA, Dejong MD, Carlson ML. Bilateral labyrinthine and internal auditory canal enhancement in an infant with severe labyrinthine dysplasia: a previously unreported phenomenon. *Otol Neurotol*. 2017 Jun;38(5):e21-e25. PMID: 28346292.
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Books

1. **Ho ML**, Eisenberg RL, eds. *Neuroradiology Signs*. McGraw-Hill, 2014.
2. **Ho ML**, ed. *The AAWR Pocket Mentor*. American Association for Women in Radiology, 2021.
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1. **Ho ML**, Hidalgo A, Gutierrez FR. Pleural pathology. In: Criales-Cortés JL, Gutiérrez FR, eds. Advances in Diagnostic Imaging—Chest. Inter-American College of Radiology, 2009.
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11. Arroyo H, Torres A, Vidaurre J, Rugilo C, **Ho ML**. Headache. In: Pediatric Neurology: Clinical and Imaging Case Studies. Cambridge Scholars Publishing, 2023.

Abstracts, Poster Presentations, and Exhibits

- 2010 **Clinical comparison of temporal bone imaging using digital volumetric tomography (DVT) and multisection CT (MSCT).**
American Society of Head and Neck Radiology, Houston, TX
- 2012 ***The mind's eye, part 1: imaging of afferent visual pathways.***
American Society of Neuroradiology, New York, NY
American Society of Head and Neck Radiology, Miami Beach, FL
- 2012 ***The mind's eye, part 2: imaging of efferent visual pathways.***
American Society of Neuroradiology, New York, NY
American Society of Head and Neck Radiology, Miami Beach, FL
- 2012 **A validation of the association between a quantitative CT scan measure of cerebral edema and outcomes post cardiac arrest.**
American Heart Association Resuscitation Science Symposium, Los Angeles, CA
- 2012 ***Losing face: lesions of the facial nerve.***
American Society of Head and Neck Radiology, Miami Beach, FL
Radiological Society of North America, Chicago, IL
- 2015 **Fetal MRI diagnosis of head & neck anomalies with US and postnatal correlation.**
American Society of Neuroradiology, Chicago, IL
- 2015 **Functional neuroplasticity.**
American Society of Neuroradiology, Chicago, IL
- 2015 **Evaluating tools of measuring intracranial pressure.**
Association for Research in Vision and Ophthalmology, Denver, CO
- 2016 **Super-refractory status epilepticus secondary to febrile illness related epilepsy syndrome treated with anakinra.**
International Child Neurology Congress, Amsterdam, Netherlands

- 2016 **Arterial spin labeling: hypoperfusion, hyperperfusion, and beyond.**
American Society of Neuroradiology, Washington, DC
- 2016 **Phosphomannomutase 2 deficiency: neurologic and ophthalmologic findings.**
American Society of Neuroradiology, Washington, DC
- 2016 **Approach to benign jaw lesions: 3D CT and MR with surgical-pathologic correlation.**
American Society of Neuroradiology, Washington, DC
American Society of Head and Neck Radiology, Washington, DC
- 2016 **H&N vascular anomalies and syndromes: why image?**
Magna Cum Laude Award, American Society of Neuroradiology, Washington, DC
American Society of Head and Neck Radiology, Washington, DC
- 2017 **Arterial spin labeling: pediatric applications.**
Summa Cum Laude Award, American Society of Neuroradiology, Long Beach, CA
- 2017 **Congenital spine anomalies: an embryologic approach.**
American Society of Spine Radiology, San Diego, CA
American Society of Neuroradiology, Long Beach, CA
- 2017 **Phakomatoses: molecules to morphology.**
American Society of Neuroradiology, Long Beach, CA
- 2017 **Supratentorial CAPNON + meningioma: collision or collusion?**
American Society of Neuroradiology, Long Beach, CA
- 2017 **Asymmetric Degos disease.**
American Society of Neuroradiology, Long Beach, CA
- 2017 **Improved delineation of air-bone interface in in-vivo high-resolution bright bone ZTE MRI at 3T.**
International Society for Magnetic Resonance in Medicine, Honolulu, HI
- 2017 **Pathogenesis of CAPNON: collision or collusion?**
American Society of Head and Neck Radiology, Las Vegas, NV
- 2017 **Solitary fibrous tumor.**
American Society of Head and Neck Radiology, Las Vegas, NV
- 2018 **Axenfeld-Rieger syndrome with cerebellar dysgenesis: a clinical association in patients with FOXC1 mutation.**
Association for Research in Vision and Ophthalmology, Honolulu, HI
- 2018 **Calcifying pseudoneoplasm of the neuraxis: a histologic characterization of 38 cases.**
American Association of Neuropathologists, Louisville, KY
- 2018 **Prevalence, timing and predictors of seizures among neonates with hypoxic ischemic encephalopathy who undergo therapeutic hypothermia.**
International Federation of Clinical Neurophysiology, Washington, DC
- 2018 **ZTE imaging of craniosynostosis in infants: initial clinical experience.**
International Society for Magnetic Resonance in Medicine, Paris, France
- 2018 **Improved imaging of craniosynostosis with cinematic rendering and ZTE MRI.**
Radiological Society of North America, Chicago, IL
- 2018 **Approach to pediatric face and neck masses.**
American Society of Neuroradiology, Vancouver, BC, Canada
- 2018 **Congenital brain anomalies: easy as 1-2-3.**
American Society of Neuroradiology, Vancouver, BC, Canada
- 2018 **Imaging pediatric proptosis: from eye to brain.**
American Society of Neuroradiology, Vancouver, BC, Canada
- 2018 **MOG antibody-associated disease.**
American Society of Neuroradiology, Vancouver, BC, Canada

- 2018 **Neonatal brain imaging: pearls and pitfalls.**
American Society of Neuroradiology, Vancouver, BC, Canada
- 2018 **New pediatric neuroimaging applications.**
American Society of Neuroradiology, Vancouver, BC, Canada
- 2019 **Pediatric neuroimaging: state-of-the-art.**
Medical Imaging Technology Showcase, Washington, DC
- 2019 **Multiband fMRI sequencing for increased temporal resolution.**
American Society of Neuroradiology, Boston, MA
- 2019 **ASL perfusion of pediatric hemangiomas.**
American Society of Neuroradiology, Boston, MA
- 2019 **Neurological, morphological, and genetic findings in twins with and without neurodevelopmental disorders.**
25th Mayo-KI Annual Scientific Research Meeting, Karolinska Institutet, Stockholm, Sweden
- 2020 **Correlates of the Hammersmith neonatal neurological examination and innovative neuroimaging biomarkers in infants with neonatal abstinence syndrome.**
Pediatric Academic Societies Meeting, virtual meeting
- 2020 **DiGeorge syndrome.**
American Society of Neuroradiology, virtual meeting
- 2020 **Synthetic CT through deep learning for radiation-free pediatric bone imaging.**
Abigail Wexner Research Institute Research Retreat, virtual meeting
- 2021 **KRIT1-mutated hyperkeratotic capillary-venous malformation: genetics, imaging, and impact on management.**
Genetics of Vascular Anomalies, International Society for the Study of Vascular Anomalies, virtual meeting
- 2021 **Safety considerations in neuroimaging of neonatal and pediatric patients using portable ultra-low-field MRI.**
International Society for Magnetic Resonance in Medicine, virtual meeting
- 2021 **Bone MRI: techniques and applications.**
Certificate of Merit, American Society of Neuroradiology, virtual meeting
- 2021 **Multidelay ASL: pediatric applications.**
Magna Cum Laude Award, American Society of Neuroradiology, virtual meeting
- 2021 **Use of paired exome analysis in vascular anomalies expands the associated genetic spectrum.**
International Scientific Meeting for PIK3CA Related Conditions, virtual meeting
- 2021 **Congenital plunging ranula: a retrospective analysis of fetal MRI obtained for unrelated anomalies.**
Society for Ear, Nose, and Throat Advancement in Children, virtual meeting
- 2022 **Pneumatized incus in a child.**
Triological Society Annual Meeting, Dallas, TX
- 2022 **Benefits of newborn screening and hematopoietic cell transplant in early-infantile Krabbe Disease.**
Krabbe Translational Research Network Meeting, virtual meeting
- 2022 **Morning glory syndrome.**
Radiological Society of North America, Chicago, IL
- 2022 **Radiomics of tuberous sclerosis complex for precision diagnosis.**
American Association of Physicists in Medicine, Washington, DC
American Society of Functional Neuroradiology, Maui, Hawaii
- 2022 **Spectrum of branchial anomalies: anatomy, embryology, and pathology.**
American Society of Head and Neck Radiology, Aurora, CO

Clinical Guidelines and Reports

- 2013 **Clinicians' guide to neuroradiology studies.**
Beth Israel Deaconess Medical Center
- 2015 **Neuroradiology fellowship manual.**
University of California, San Francisco
- 2019 **Speed mentoring.**
AAWR Focus Newsletter, American Association for Women in Radiology
- 2019 **MRI protocol guidance document.**
World Federation of Pediatric Imaging
- 2020 **Practice parameter for the performance and interpretation of cervicocerebral computed tomography angiography (CTA).**
American College of Radiology—American Society of Neuroradiology—Society for Pediatric Radiology
- 2020 **Pediatric head ultrasound.**
Society for Pediatric Radiology
- 2020 **Pediatric spine ultrasound.**
Society for Pediatric Radiology
- 2021 **The AAWR pocket mentor: a survival guide for women in radiology.**
American Association for Women in Radiology
- 2021 **The power of functional neuroimaging: new insights into old behaviors.**
Mentorship Corner, AAWR Focus Newsletter, American Association for Women in Radiology
- 2021 **Academic radiology, tips for success: part 1.**
Mentorship Corner, AAWR Focus Newsletter, American Association for Women in Radiology
- 2021 **Academic radiology, tips for success: part 2.**
Mentorship Corner, AAWR Focus Newsletter, American Association for Women in Radiology
- 2021 **Practice parameter for the performance of computed tomography (CT) of the extracranial head and neck.**
American College of Radiology—American Society of Neuroradiology—Society for Pediatric Radiology
- 2022 **The art of medicine: where technology meets humanity.**
Mentorship Corner, AAWR Focus Newsletter, American Association for Women in Radiology
- 2022 **Spotlight on women.**
AAWR Focus Newsletter, American Association for Women in Radiology
- 2022 **Practice parameter for the performance of computed tomography (CT) in the evaluation and classification of traumatic brain injury.**
American College of Radiology—American Society of Neuroradiology—Society for Pediatric Radiology
- 2022 **Practice parameter for the performance of functional magnetic resonance imaging (fMRI) of the brain.**
American College of Radiology—American Society of Neuroradiology—Society for Pediatric Radiology
- 2022 **Practice parameter for the performance of intracranial magnetic resonance perfusion imaging.**
American College of Radiology—American Society of Neuroradiology—Society for Pediatric Radiology
- 2022 **Practice parameter for the performance of magnetic resonance imaging (MRI) of the head and neck.**
American College of Radiology—American Society of Neuroradiology—Society for Pediatric Radiology

- 2022 **Practice parameter for the performance of computed tomography (CT) of the spine.**
American College of Radiology—American Society of Neuroradiology—American Society of Spine
Radiology—Society for Pediatric Radiology
- 2022 **Transformative radiology: roadmap to the future.**
Asian Hospital & Healthcare Management
- 2023 **The future of precision medicine in healthcare.**
American Hospital & Healthcare Management
- 2023 **Personalized medicine versus precision medicine.**
European Hospital & Healthcare Management
- 2023 **Artificial intelligence for brain MRI.**
European Hospital & Healthcare Management