

UNIVERSITY OF PENNSYLVANIA  
Curriculum Vitae

Date: 2/19/2024

Jae W. Song, MD, MS

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Address: University of Pennsylvania  
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Education:

2000	BA	University of Pennsylvania (Biology, Magna Cum Laude)
2008	MD	New York University Grossman School of Medicine (Honors in Cell Biology)
2010	MS	University of Michigan, School of Public Health (Biostatistics and Clinical Epidemiology)

Postgraduate Training and Fellowship Appointments:

2001-2002	Fulbright Scholar, Institute of Biology, Developmental Biology, University of Freiburg (Advisor: Wolfgang Driever, PhD)
2006-2008	NYU Honors Program, Department of Molecular and Cellular Biology, Harvard University (Funded by Alpha Omega Alpha, Carolyn L. Kukein Award, Advisor: Jeff W. Lichtman, MD, PhD)
2007	Max Kade Fellow, Department of Surgery, Medical University of Vienna, Austria (Advisor: Oskar Aszmann, MD, PhD)
2008-2009	Internship (PGY-1), General Surgery, University of Michigan Hospital Systems
2009-2011	Research Fellow, Hand Surgery, University of Michigan Medical School (NIAMS Ruth L. Kirschstein National Research Service Award, Advisor: Kevin C. Chung, MD, MS)
2011-2012	Research Fellow, Newborn Medicine, Boston Children's Hospital (Advisor: P. Ellen Grant, MD, MS)
2012-2013	Residency (PGY-2), Diagnostic Radiology, Hahnemann University Hospital
2013-2016	Residency (PGY-3-5), Diagnostic Radiology and Biomedical Imaging, Yale New Haven Hospital
2015	Andlinger Fellow, Department of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Austria (Advisors: Daniela Prayer, MD and Gregor Kasprian, MD)
2016-2017	Clinical Fellow (PGY-6), Diagnostic Radiology, Division of Neuroradiology, Massachusetts General Hospital

2017-2018	Chief Fellow (PGY-7), Diagnostic Radiology, Division of Neuroradiology, Massachusetts General Hospital
2019	Certificate: Research Mentor Training at Penn Institute of Translational Medicine and Therapeutics (ITMAT, 6 week program)
2020-2022	Certificate of Completion: Penn Academic Foundations Program (2-year program)
2023	Certificate of Attendance: RSNA Clinical Trials Methodology Workshop (5-day program)

Faculty Appointments:

2024-present	Associate Professor of Radiology, University of Pennsylvania School of Medicine
2018-2024	Assistant Professor of Radiology, University of Pennsylvania School of Medicine

Hospital and/or Administrative Appointments:

2016-2017	Graduate Assistant, Diagnostic Radiology, Division of Neuroradiology, Massachusetts General Hospital
2017-2018	Clinical Assistant, Diagnostic Radiology, Division of Neuroradiology, Massachusetts General Hospital
2018-Present	Attending, Hospital of the University of Pennsylvania - Department of Radiology, Division of Neuroradiology
2018-Present	Active, Penn Presbyterian Medical Center - Department of Radiology, Division of Neuroradiology
2018-Present	Active, Pennsylvania Hospital - Department of Radiology, Division of Neuroradiology
2018-Present	Active, Chester County Hospital - Department of Radiology Neuroradiology

Specialty Certification:

2017	Board Certified
2018	Certificate of Added Qualification in Neuroradiology

Licensure:

2016-2018	Massachusetts
2018-Present	Pennsylvania
2018-Present	New Jersey

Awards, Honors and Membership in Honorary Societies:

2001-2002	Fulbright Fellowship, Freiburg, Germany
2002	Lindau Nobel Laureates Meeting, Alumna (Requires application and selection process to attend.)
2006	Alpha Omega Alpha, Carolyn L. Kukein Award
2007	Max Kade Award, American Austrian Foundation, (Medical University of Vienna, Department of Surgery)

2009	Award for Outstanding Clinical Care, University of Michigan Health System
2011	Competent Communicator Award, Toastmasters International
2015	Andlinger Award, American Austrian Foundation (Medical University of Vienna, Department of Diagnostic Radiology)
2017	Value-Based Health Care Delivery Intensive Seminar Award, Harvard Business School Institute for Strategy and Competitiveness
2020-2023	NIH NINDS Loan Repayment Program Award
2022	ARRS 2022 <i>Certificate of Merit</i> Award on Educational Exhibit (E1428): A Review of Current Clinical Applications of Intracranial Vessel Wall MR Imaging
2022	Certificate of Research Excellence, American Heart Association/American Stroke Association
2023	<i>Robert D. Zimmerman Scientific Award</i> for Scientific Presentation: Prevalence and Imaging Biomarkers of Complex Aortic Plaque in Cryptogenic Stroke: Systematic Review
2023	2023 Council of Early Career Investigators in Imaging (CECI <sup>2</sup> ) by the Academy for Radiology & Biomedical Imaging Research
2024	<i>3rd place</i> Award in the 4th Annual American College of Radiology's Medical Student Symposium Case Competition (mentored a PSOM MS3), "New Left-sided Weakness in a Young Woman"

Memberships in Professional and Scientific Societies and Other Professional Activities:

International:

2011-Present	Radiological Society of North America 2022, RSNA R&E Medical Student Grant Reviewer Study Section 2023, RSNA R&E Trainee Grant Reviewer Study Section 2022-Present, RSNA Abstract Reviewer
2012-Present	International Society of Magnetic Resonance in Medicine (Member) 2020-Present, ISMRM Abstract Reviewer 2023-2026, ISMRM Annual Meeting Program Committee Member
2020	The Netherlands Organisation for Scientific Research (NWO/ZonMw) 2020, Grant Reviewer
2023	Deutsche Forschungsgemeinschaft 2023, Grant Reviewer
2023	Austrian Science Foundation 2023, Grant Reviewer

National and Regional:

2012-Present	American College of Radiology
2012-2014	Society for Neuroscience
2013-2018	American Roentgen Ray Society
2014-Present	American Society of Neuroradiology

	2015-2017, ASNR Computer Science and Informatics Committee
	2017-Present, ASNR Abstract Reviewer
	2018-2020, ASNR Young Professionals Society Committee
	2022-2021, ASNR Evidence Based Medicine Committee
2018-2019	American Society of Head and Neck Radiology
2018-Present	Eastern Neuroradiological Society
	2022-2023, Scientific Presentations Committee (2-year term)
2020-Present	American Heart Association/American Stroke Association
	2021-Present, International Stroke Conference, Abstract Reviewer
2021-Present	American Society of Functional Neuroradiology
	2021-2022, ASFNR Clinical Practice Committee
2022-Present	American College of Radiology, Vessel Wall Imaging Practice Parameters and Technical Standards
	2022-Present, Committee member
2022	NIH Study Section Member, Clinical and Translational Imaging Science (CTIS) Study Section, Early Career Reviewer (6/16/22, 6/17/22).

Editor Positions:

2021-Present	Review Editor, Editorial Board of Applied Neuroimaging, <i>Frontiers Neurology</i>
2022-2023	Associate Section Editor, <i>Journal of Neuroradiology</i>
2024-Present	Associate Editor, <i>Radiology Advances</i>

Peer Reviewer:

2013-Present	Reviewer, Clinical Imaging
2018-Present	Reviewer, American Journal of Neuroradiology
2019-Present	Reviewer, Neuroradiology
2020-Present	Reviewer, Journal of Stroke
2021-Present	Reviewer, Journal of the American College of Cardiology
2021-Present	Reviewer, Journal of Cardiovascular Magnetic Resonance
2021-Present	Reviewer, Korean Journal of Radiology
2021-Present	Reviewer, European Journal of Radiology
2022-Present	Reviewer, Annals of Neurology
2022-Present	Reviewer, Academic Radiology
2023-Present	Reviewer, Stroke
2023-Present	Reviewer, Journal of NeuroInterventional Surgery

Academic and Institutional Committees

2018-Present	Penn Multidisciplinary Neurovascular Case Conference Role: Neuroradiologist
2021-Present	Penn Photon Counting CT Committee Role: Neuroradiology Research Representative
2022-Present	Penn Multidisciplinary Pituitary Tumor Board Role: Neuroradiologist

Major Academic and Clinical Teaching Responsibilities; Clinical Services:

2014	Introduction to CT and MRI Physician Assistant Students, Yale School of Medicine
2016	Neuroradiology, Clinical Neuroscience Module 2nd year Medical Students, Yale School of Medicine
2017	MEEI Case Conference, Neuroradiology Fellows, Massachusetts General Hospital
2017	MGH Case Conference, Neuroradiology Fellows, Massachusetts General Hospital
2017	fMRI Case Conference, Neuroradiology Fellows, Massachusetts General Hospital
2017	High Resolution Vessel Wall Imaging and its Clinical Applications, J. Philip Kistler Stroke Research Center at Massachusetts General Hospital Boston, MA
2017	Journal Club: Magnetic Resonance Vessel Wall Imaging, Massachusetts General Hospital
2017	Journal Club: Medicolegal Aspects related to Radiology, Massachusetts General Hospital
2018-2021	Imaging of Vasculopathies: RCVS, PRES, and Beyond, in Penn Radiology's: Diagnosis in the Neuraxis: Comprehensive Clinical Review for the Core, CAQ, & MOC, 10/6/2018, 8/13/2021.
2018	Penn Radiology Grand Rounds, Clinical Applications of Vessel Wall MR Imaging. University of Pennsylvania. Philadelphia, PA, 12/18/2018.
2019	Penn Neuroradiology Fellows Lecture: Vessel Wall MR Imaging, 1/23/2019.
2019	Intracranial Venous Thrombosis, Around the Clock Imaging, Penn CME Course, Vancouver, British Columbia, 7/29/2019
2019	Vascular Malformations of the Brain and Spine, Around the Clock Imaging, Penn CME Course, Vancouver, British Columbia, 7/29/2019
2019	Spinal Neoplasia, Around the Clock Imaging, Penn CME Course, Vancouver, British Columbia, 7/29/2019
2019	Spine-So-Fine: Audience Interactive Case-Based: After Hour Misses and Interpretive Errors, Around the Clock Imaging, Penn CME Course, Vancouver, British Columbia, 7/30/2019
2019	Spine Trauma without Drama, Around the Clock Imaging, Penn CME Course, Vancouver, British Columbia, 7/30/2019
2019	Patterns of Acute Arterial Stroke, Around the Clock Imaging, Penn CME Course, Vancouver, British Columbia, 7/30/2019
2019	Arterial Wall MR Imaging: Patterns of Vasculitis, Around the Clock Imaging, Penn CME Course, Vancouver, British Columbia, 7/30/2019
2019	Neuroradiology-Neurology Clinical-Pathologic Correlation, September 6, 2019 (Mentored Fellow: Jeffrey Schneider, MD)
2019	Neuroradiology-Neurology Clinical-Pathologic Correlation,

- November 1, 2019 (Mentored Fellow: John Ryu, MD)
- 2019 Neuroradiology-Neurology Clinical-Pathologic Correlation, May 17, 2019 (Mentored Fellow: Alexander Richardson, MD)
- 2019 Neuroradiology-Neurology Clinical-Pathologic Correlation, April 19, 2019 (Mentored Fellow: Jonathan Masur, MD)
- 2019 MRI Technologist Educational Series: Vessel Wall Imaging & HUP6/PRISMA Workflow (May 15, 2019, 10 minutes, 7am & 2pm, 40 attendees)
- 2019 Neuroradiology-Neurology Clinical-Pathologic Correlation, Feb 1, 2019 (Mentored Fellow: Alexander Richardson, MD)
- 2019 Neuroradiology-Neurology Clinical-Pathologic Correlation, March 29, 2019 (Mentored Fellow: Amit Haboosheh, MD)
- 2019 Neuroradiology-Neurology Clinical-Pathologic Correlation, Sept 6, 2019 (Mentored Fellow: Jeffrey Schneider, MD)
- 2019 Applications for Intracranial Vessel Wall Imaging: Advanced Topics in Stroke Neurology, Department of Neurology, Division of Stroke Neurology, University of Pennsylvania (1 hour, 20 Faculty, Fellows, Residents)
- 2019 Imaging of Intracranial Atherosclerosis and Stroke, Advanced Cardiovascular Imaging Lab, University of Pennsylvania (1 hour, 8 Faculty, Post-doctoral candidates, Graduate students)
- 2019 MRI Technologist Educational Series: Vessel Wall MRI, Stroke/TIA Protocol Indications (Sept 17, 2019, 15 minutes, 7am & 2pm, 40 attendees)
- 2020 Penn Neuroradiology Fellows Lecture: Interpreting Vessel Wall MR Imaging: How I do It, 1/15/2020. (Attended: 6 Fellows)
- 2020 Penn Radiology Residents: Neuroradiology Board Review (5/8/2020, 20 Attended; Rated 9.1 (scale 1-10; 8 responded to survey)
- 2020 Neuroradiology-Neurology Clinical-Pathologic Correlation, May 15, 2020 (Mentored Fellow: Hussein Nasser, MD)
- 2020 Neuroradiology-Neurology Clinical-Pathologic Correlation, Jan 31, 2020 (Mentored Fellow: Carlos Weber, MD)
- 2020 MRI Technologist Educational Series: Vessel Wall Imaging Orbits and Neck Protocols (2/19/2020, 15 minutes, 7am & 2pm, 40 attendees)
- 2020 Penn Radiology Resident Lecture, "CNS Vasculopathies" (6/26/2020)
- 2020 Rheumatology CME: Giant Cell Arteritis Case Conference (Role: co-presenter; Attended: 25 people, Rheumatology Division), 1/14/2020
- 2020 How to be an Academic Radiologist & Stroke Imaging, Part of How to be an Academic Radiologist (HBTAR) for Penn Residents (15 minutes, 20 attendees)
- 2020 Research Proposal Feedback, Part of How to be an Academic Radiologist (HBTAR) for Penn Residents (2 hours, 30+ attendees,

- review proposals, review oral presentations, provide live feedback)
- 2020 Multi-disciplinary Neurology, Neurointerventional radiology & Neuroradiology Journal Club (CTA Imaging in Acute Stroke), 18 attendees, 6 Invited Guest Discussants, Oct 9, 2020
- 2020 RAD 300: Radiology Elective at the Perlman School of Medicine: Neuroradiology and MRI, 12/17/2020. (Attended: 7 MS3, MS4)
- 2021 Neuroradiology-Neurology Clinical-Pathologic Correlation, Jan 29, 2021 (Mentored Fellow: Dhruv Patel, MD)
- 2021 RAD 300: Radiology Elective at the Perlman School of Medicine: Neuroradiology and MRI, 1/28/2021. (Attended: 7, MS4)
- 2021 Neuroradiology Fellows Interesting Case Conference (20 Attendees; 1 hour; 2/16/2021)
- 2021 RAD 300: Radiology Elective at the Perlman School of Medicine: Neuroradiology and MRI, 2/19/2021. (Attended: 6, MS3/4)
- 2021 Neuroradiology-Neurology Clinical-Pathologic Correlation, Mar 19, 2021 (Mentored Fellow: Allan Wang, MD)
- 2021 RAD 300: Radiology Elective at the Perlman School of Medicine: Neuroradiology and MRI. (6/11/2021, Attended: 11, MS3/4)
- 2021 A Night in Tunica: Fundamentals of Vessel Wall Imaging, in Penn Radiology's: Diagnosis in the Neuraxis: Comprehensive Clinical Review for the Core, CAQ, & MOC, 8/28/2021.
- 2021 Neuroradiology-Neurology Clinical-Pathologic Correlation, Oct 29, 2021 (Mentored Fellow: Alan Chu, MD, PhD)
- 2021 Neuroradiology-Neurology Clinical-Pathologic Correlation, Nov 5, 2021 (Mentored Fellow: Nicole Levy, MD)
- 2021 Penn Neuroradiology Fellows Lecture: Clinical Applications of Vessel Wall MR Imaging: 11/17/2021. (Attended: 10 Fellows)
- 2022 University of Massachusetts, CS410: Introduction to Software Engineering, (Jan-April 2022), Client/Collaborator for project involving 5 graduate students)
- 2022 Neuroradiology-Neurology Clinical-Pathologic Correlation, April 15, 2022 (Mentored Fellow: Colbey Freeman, MD)
- 2022 Neuroradiology Fellows Interesting Case Conference (15 Attendees; 1 hour; 4/19/2022)
- 2022 Neuroradiology-Neurology Clinical-Pathologic Correlation, June 3, 2022 (Mentored Fellow: Matthew McKeague, MD)
- 2022 Multidisciplinary Sella Conference (4 cases, 10 Attendees; 1 hour; 7/19/2022)
- 2022 Intracranial Venous Thrombosis, Around the Clock Imaging, Penn CME Course, Montreal, Quebec, Canada, 7/25/2022
- 2022 Spine Trauma without Drama, Around the Clock Imaging, Penn CME Course, Montreal, Quebec, Canada, 7/25/2022
- 2022 Spine Refined: After Hours Misses & Interpretive Errors, Around the Clock Imaging, Penn CME Course, Montreal, Quebec, Canada, 7/26/2022
- 2022 Neoplasms of the Spine, Around the Clock Imaging, Penn CME

- Course, Montreal, Quebec, Canada, 7/26/2022
- 2022 Patterns of Acute Arterial Stroke, Around the Clock Imaging, Penn CME Course, Montreal, Quebec, Canada, 7/26/2022
- 2022 Intracranial Vessel Wall MR Imaging, Around the Clock Imaging, Penn CME Course, Montreal, Quebec, Canada, 7/27/2022
- 2022 Neuroradiology Fellows Interesting Case Conference (8/16/2022, 20 Attendees; 1 hour)
- 2022 Neuroradiology-Neurology Clinical-Pathologic Correlation, (9/30/2022, 1 hour, Mentored Fellow: David Lemkuhl, MD)
- 2022 Neuroradiology Fellows Interesting Case Conference (15 Attendees; 1 hour; 10/4/2022)
- 2022 Multidisciplinary Sella Conference (5 cases, 15 Attendees; 1 hour; 10/17/2022)
- 2022 MR Technologist Educational Series: Vessel Wall Imaging Website Updates & Implementation (10 minutes, 7am & 2pm, 40 attendees, 10/19/2022)
- 2022 Neuroradiology-Neurology Clinical-Pathologic Correlation (11/4/2022, 1 hour; Mentored Fellow: Elizabeth Dutweiler, MD)
- 2022 Penn Department of Internal Medicine, Resident's Case Based Conference on day of Residency Interviews (60 Attendees (hybrid), 1 hour, 11/14/2022)
- 2022 Penn Neuroradiology Fellows Lecture: Techniques and Clinical Applications of Vessel Wall MR Imaging (45 minutes, 10 Fellows, 11/16/2022)
- 2022 Penn Radiology Resident Lecture: Vascular Malformations of the Brain and Spine (45 minutes, 30 Attendees (hybrid), 11/18/2022)
- 2022 Multidisciplinary Sella Conference (60 minutes, 5 cases, 15 attendees; 11/21/2022)
- 2023 Neuroradiology-Neurology Clinical-Pathologic Correlation, (1/20/2023, 1 hour, Mentored Fellow: Yadiel Sanchez, MD)
- 2023 Academic Tracks Panel, How to be an Academic Radiologist (HBTAR) Penn Radiology Program (1/30/2023, 2.5 hours)- Invited faculty panelist
- 2023 Neuroradiology-Neurology Clinical-Pathologic Correlation (3/17/2023, 1 hour; Mentored Fellow: Brad Bennett, MD)
- 2023 Multidisciplinary Sella Conference (8 cases, 14 Attendees; 1 hour; 3/20/2023)
- 2023 Neuroradiology-Neurology Clinical-Pathologic Correlation (5/19/2023, 1 hour; Mentored Fellow: Amir Anvari, MD)
- 2023 Penn Radiology Resident Lecture: CNS Vasculopathies (45 minutes, 30 Attendees (hybrid), 6/16/2023)
- 2023 Penn Neuroradiology Fellows Lecture: How to Order and Protocol Vessel Wall Imaging Exams and Guide to Interpretation (45 minutes, 15 Fellows/Attendings (hybrid), 7/11/2023)
- 2023 Penn Vascular Neurology Division: Clinical Applications of Vessel Wall MR Imaging and How to Order (45 minutes, 12 Attendees)



- (hybrid), 7/21/2023)
- 2023 MR Technologist Educational Series: Vessel Wall Exam Codes, Protocols, Tips. Pennsylvania Hospital MR Technologists (15min, virtual, 8/8/2023).
- 2023 Penn Radiology Resident Lecture: CNS Vascular Malformations (45 minutes, 30 Attendees (hybrid), 8/11/2023)
- 2023 MR Technologist Educational Series: Vessel Wall Exam Codes, Protocols, Survey Results. HUP/PCAM (15min, 8/16/2023, 7:30am/2:30pm).
- 2023 Multidisciplinary Sella Conference (5 cases, 14 Attendees; 1 hour; 10/16/2023)
- 2023 Neuroradiology-Neurology Clinical-Pathologic Correlation (10/20/2023, 1 hour; Mentored Fellow: Maegan Chan, MD)
- 2023 Penn Neuroradiology Fellows Lecture: How Interpret Vessel Wall Imaging Exams (45 minutes, 15 Fellows/residents (hybrid), 11/14/2023)
- 2023 Neuroradiology-Neurology Clinical-Pathologic Correlation (12/15/2023, 1 hour; Mentored Fellow: Sean Mendoca, MD)
- 2024 Penn Neuroradiology Fellows Lecture: Cases and Interpretation Pitfalls of Vessel Wall Imaging Cases: 1/30/2024. (90 minutes, Attended: 18 Fellows and Attendings)

Mentees:

- 2018-2019 Samantha Guiry, BS (Pre-Med, Research Assistant, Currently New York Medical College Medical Student)- Co-authored 1 publication, 1 abstract
- 2019-2020 Mougnyan Cox, MD (Neuroradiology/Neurointerventional Radiology Fellow, Currently Diagnostic and Interventional Neuroradiologist at Baylor Scott & White Health)- Co-authored 1 publication, 1 abstract
- 2019-2020 Brianna Moon, PhD (Bioengineering PhD candidate/HHMI Interfaces Scholar, Thesis committee member- Currently postdoctoral fellow at MGH Martinos, Caravan Lab)- Co-authored 2 publications, 1 abstract
- 2019-2021 Kofi-Buaku Atsina, MD (Neuroradiology/Neurointerventional Fellow, Currently Diagnostic and Interventional Neuroradiologist at Radiology Associates of Richmond)- Co-authored 2 publications, 1 abstract
- 2019-2021 Morgan Burke, BA (Research Assistant, Currently Veterinary Technician) –Co-authored 3 publications, 3 abstracts
- 2019-Present Aaron Rothstein, MD (Vascular Neurology Fellow, Currently Assistant Professor of Neurology at the University of Pennsylvania)- Co-authored 1 publication; Mentor on AHA Career Development (2023-2026, 23CDA1057159) Award “Networks of Arousal in Stroke Recovery”
- 2020-2021 Athanasios Pavlou, MD (Research Fellow, Currently University of

	Maryland Diagnostic Radiology Resident)- Co-authored 6 publications, 3 abstracts
2021-2023	Nathan Arnett, BS (Medical Student, Perelman School of Medicine, University of Pennsylvania)- Co-authored 1 publication, 2 abstract
2021	Jose (Joey) Saucedo, BS (Medical Student, Perelman School of Medicine, University of Pennsylvania; Currently Interventional Radiology resident at UCSD)- Co-authored 1 publication, 1 abstract (awarded <i>Certificate of Merit</i> at ARRS 2022)
2021-2022	Yvonne Su, BA (Medical Student, Perelman School of Medicine, University of Pennsylvania)- Co-authored 2 publications, 1 abstract
2021-2024	Grace Tewkesbury, MD (Penn Radiology Resident-Clinical Track)- Co-authored 2 publications
2021-Present	Pouyan Pasyar, BS (PreMed, Research Assistant)- Co-authored 1 abstract, 1 publication
2021-Present	Konstanze Guggenberger, MD (Neuroradiology Resident, University of Würzburg, Germany)- Co-authored 3 publications, 3 abstracts
2021-Present	Marius Vogt, MD (Diagnostic Radiology Resident, University of Würzburg, Germany)- Co-authored 1 publication, 1 abstract
2021-2022	Dan Cohen-Addad, MD (Penn Neuroradiology Fellow, Assistant Professor of Radiology at Emory University)- Co-authored 1 publication
2021-2022	Raghav Mattay, MD (Penn Neuroradiology Fellow, Current Neurointerventional Fellow at UCSF)- Co-authored 1 publication, 1 abstract
2021-Present	Ishaan Bhatt, BS (Medical Student, Drexel University College of Medicine)- Co-authored 2 publications, 3 abstracts, Awarded DUCOM Alumni Association Professional Development Grant
2021-Present	Yu Sakai, MD (Penn Radiology Resident-Research Track)- Co-authored 2 publications, 4 abstracts, awarded <i>Robert D. Zimmerman Scientific Award</i>
2022-2023	Quynh-Anh Dang, BA (Medical Student, Perelman School of Medicine, University of Pennsylvania)- Co-authored 1 publication, 1 abstract
2022-Present	Jens Witsch, MD (Assistant Professor of Neurology, University of Pennsylvania)- Co-authored 2 abstracts, 3 publications; Mentor on AHA Career Development (2023-20263 23CDA1053561) and K23-award Award “Biomarkers of neutrophil inflammation and high-precision MRI measures of tissue injury after intracerebral hemorrhage”
2022	Tomas Anderson, MD (Penn Ophthalmology Resident)- Co-authored 1 publication
2023-Present	Shraddha Pandey, PhD (Postdoctoral Fellow, University of Pennsylvania)- Co-authored 3 abstracts
2023-Present	Huy Phi, BS (Medical Student, Drexel University College of

	Medicine)
2023-Present	Andrew Hu, MS (Medical Student, Perelman School of Medicine, University of Pennsylvania)
2023	Ada Bozikov (Undergraduate Student, Mary Baldwin University)
2023-Present	Manisha Koneru, MS (Medical Student, Cooper Medical School of Rowan University)-Co-authored 1 abstract
2023-Present	David Yang, BS (Medical Student, Perelman School of Medicine, University of Pennsylvania)- Awarded <i>3<sup>rd</sup> place</i> in the 4th Annual American College of Radiology's Medical Student Symposium Case Competition.
2024-Present	Katherine Hartmann, MD, PhD (Penn Radiology Resident-Research Track)

#### Lectures by Invitation:

May, 2010	Predictors of Job Satisfaction among the Instructional and Clinical Faculty Tracks at an Academic Medical Center, <u>Plastic Surgery-Research Council</u> Annual Meeting, San Francisco, California- Oral Scientific Presentation
Apr, 2012	Emerging Left-Right Asymmetry of White Matter Brain Pathways in Humans: Fetal, Neonatal, and Toddler Stages, <u>Pediatric Academic Society</u> Annual Meeting, Boston, Massachusetts- Scientific Abstract
Dec, 2013	Longitudinal Changes in Diffusion Properties in the White Matter Pathways in Patients with Tuberous Sclerosis Complex, <u>Radiological Society of North America</u> , Chicago, Illinois- Oral Scientific Presentation
Feb, 2016	How to Read an Abdominal and Pelvic CT, Residents, Staff, Emergency Medical Department, <u>Muhimbili National Hospital</u> , Tanzania, Africa (30 minutes, 50 attendees)- Invited Educational Lecture
Feb, 2016	How to Read a Chest CT, Residents, Staff, Emergency Medical Department, <u>Muhimbili National Hospital</u> , Tanzania, Africa (30 minutes, 50 attendees)- Invited Educational Lecture
Feb, 2016	How to Read a Shoulder MRI, 1-3rd year Residents, Diagnostic Radiology Department, <u>Muhimbili National Hospital</u> , Tanzania, Africa (30 minutes, 50 attendees)- Invited Educational Lecture
Feb, 2016	How to Read a Knee MRI, 1-3rd year Residents, Diagnostic Radiology Department, <u>Muhimbili National Hospital</u> , Tanzania, Africa (30 minutes, 50 attendees)- Invited Educational Lecture
Sep, 2017	The Accuracy of Fetal Fiber Tracking-a Postnatal MRI Correlation, <u>International Society of Ultrasound in Obstetrics and Gynecology</u> , Vienna, Austria (15 minutes, 200 attendees)- Oral Scientific Presentation
May, 2018	High Resolution Vessel Wall Imaging and Vasculopathy related to Herpes Zoster Ophthalmicus, <u>57<sup>th</sup> Annual Meeting of the American Society of Neuroradiology</u> , Vancouver, Canada (5

- minutes, 100 attendees)- Oral Excerpta
- May, 2018 Correlation of 3D Time-of-Flight MRA and High Resolution Vessel Wall Magnetic Resonance Imaging in the presence of Vessel Wall Enhancement, 57<sup>th</sup> Annual Meeting of the American Society of Neuroradiology, Vancouver, Canada (10 minutes, 30 attendees)- Oral Scientific Presentation
- May, 2018 Utility of High Resolution Vessel Wall Imaging in Hypertensive Angiopathy, 57<sup>th</sup> Annual Meeting of the American Society of Neuroradiology, Vancouver, Canada (10 minutes, 30 attendees)- Oral Scientific Presentation
- May, 2019 Serial Vessel Wall MR Imaging of Tuberculosis Cerebral Vasculitis, 58<sup>th</sup> Annual Meeting of the American Society of Neuroradiology, Boston, Massachusetts (5 minutes, 30 attendees)- Oral Excerpta
- May, 2019 Identification of a Ruptured Basilar Artery Sidewall Perforator Aneurysm by Vessel Wall MR Imaging, 58<sup>th</sup> Annual Meeting of the American Society of Neuroradiology, Boston, Massachusetts (5 minutes, 20 attendees)- Oral Excerpta
- Aug, 2019 Carotid Plaque Imaging, 31<sup>st</sup> Annual Eastern Neuroradiology Society, Brooklyn, New York (20 minutes, 150 attendees)- Invited Topical Lecture
- Oct, 2019 Pearls from my Mentor: Listen, 53<sup>rd</sup> Annual Meeting of the American Society of Head and Neck Radiology Meeting, Scottsdale, Arizona (5 minutes, 200+ attendees)- Invited Presentation
- Dec, 2019 Qualitative Assessment and Reporting Quality of Intracranial Vessel Wall MR Imaging Studies, Radiological Society of North America, Chicago, Illinois (10 min, 30 attendees)- Oral Scientific Presentation
- June, 2020 Getting Things Done: Time Management Skills and Habits for Excellence, 59<sup>th</sup> Annual Meeting American Society of Neuroradiology 2020, Virtual Meeting (15 minutes, 6/1/2020)- Invited Topical Lecture
- Aug, 2020 Imaging Endpoints by Pulse Sequence Type for Intracranial Atherosclerosis using Vessel Wall MR Imaging, International Society of Magnetic Resonance Imaging in Medicine, Virtual Meeting (10 minutes, #631)- Oral Scientific Presentation
- Oct, 2020 Clinical Applications of Intracranial Vessel Wall MR Imaging, University of Massachusetts Medical Center, Department of Radiology, Worcester, MA (Virtual due to COVID; 31 attendees, 1 hour, 10/21/2020)- Grand Rounds
- Mar, 2021 Vessel Wall Magnetic Resonance Imaging Biomarkers of Symptomatic Intracranial Atherosclerosis: A Meta-Analysis, International Stroke Conference, Virtual Meeting due to COVID (12 minutes)- Oral Scientific Presentation (A35)
- May, 2021 Intracranial Vessel Wall MR Imaging: Towards Clinical Adoption (E5762), International Society of Magnetic Resonance in

- May, 2021 Medicine, Vancouver, BC (virtual meeting due to COVID; 5585 attendees, 30 minutes, 5/15/2021)- Invited Educational Lecture  
Introduction to Intracranial VWI Imaging Technique/How to's/Basic Image Interpretation, 59<sup>th</sup> Annual American Society of Neuroradiology Meeting, San Francisco, CA (virtual due to COVID; >400 attendees, 15 min, 5/22/2021)- Invited EBM Educational Lecture
- Aug, 2021 Intracranial Vessel Wall MR Imaging, at the 33<sup>rd</sup> Annual Eastern Neuroradiological Society (virtual meeting due to COVID, 15 minutes, 8/21/2021)- Invited Educational Lecture
- Aug, 2021 Vessel Wall MR Imaging of CNS Vasculitis: A Systematic Review, Eastern Neuroradiological Society (virtual meeting due to COVID, 5 minutes, 8/21/2021)- Oral Scientific Presentation
- Sep, 2021 Why Should We Change Our Current Vascular Clinical Imaging?, American Society of Functional Neuroradiology, Santa Fe, NM (hybrid meeting due to COVID; 15 min, 9/18/2021, >100 attendees)- Invited Educational Lecture
- Oct, 2021 Clinical Applications of Intracranial Vessel Wall MR Imaging, University of Wisconsin School of Medicine and Public Health, Department of Radiology (Virtual, 1 hour, 10/11/2021, >30 Radiology residents, fellows, faculty)- Invited Lecture
- Nov, 2021 Global Trends in Neuroimaging: Intracranial Vessel Wall MR Imaging, International Conference of Magnetic Resonance Imaging (ICMRI), Seoul, South Korea (virtual meeting due to COVID, 20 minutes, 11/6/2021)- Invited Lecture
- Feb, 2022 Features of Calcified Carotid Atherosclerosis are Associated with Stroke in Patients with Embolic Stroke of Undetermined Source, International Stroke Conference, New Orleans, LA (10 minutes, 2/9/2022, 15 people)- Scientific Presentation
- Mar, 2022 Intracranial Vessel Wall MR Imaging, Massachusetts General Hospital, Neuroradiology Special Alumni Lecture (virtual, 45 minutes, 3/3/2022, 30 neuroradiology fellows, faculty)-Invited Lecture
- May, 2022 Sex-Differences in Intracranial Plaque Burden in Hypertensive Patients with Acute Ischemic Stroke: A Vessel Wall MR Imaging Study, Joint Annual Meeting ISMRM-ESMRMB & ISMRT 31st Annual Meeting, London, England, UK (10 minutes, ~30 members, 5/9/2022)-Scientific Abstract Presentation in the Vessel Wall and Function Scientific Session
- Aug, 2022 Clinical Implementation and Applications of a Vessel Wall Imaging Program, University of California San Francisco, Division of Neuroradiology, San Francisco, CA (60 minutes, 8/23/2022)- Invited Lecture/*Visiting Professorship*
- Aug, 2022 Implementation of Vessel Wall MR Imaging Program, American Society of Functional Neuroradiology, Maui, HI (15 min, 8/28/2022, 200 attendees)- Invited Educational Lecture

- Sept, 2022 Sex-Differences in Intracranial Atherosclerosis, 2022 Intracranial Atherosclerosis Conference (ICAS), Rotterdam, The Netherlands (20 min, 9/16/2022)- Invited Lecture
- Oct, 2022 Vessel Wall MR Case Presentation, ASNR Vessel Wall Imaging Study Group, Virtual (10 min, 10/27/2022, 50 international attendees)- Invited Oral Excerpta Presentation
- Nov, 2022 Orbital MR Imaging of Giant Cell Arteritis, Radiological Society of North America (30 min, 11/29/2022)- Moderated Poster Presentation
- Feb, 2023 The Role of Imaging in Eliminating Paralysis, R34 NIH Funded “Eliminating Paralysis After Aortic Aneurysm Surgery Conference,” Ohio State University, Columbus, Ohio (15 min, 2/25/2023) – Invited Lecture
- April, 2023 Education Advances: Building A Clinical Program, American Society of Neuroradiology Live Webinar Series (1 hour, 4/5/2023)- Invited Lecture/Webinar
- May, 2023 Head and Neck Vascular Case Conference, Massachusetts General Brigham Radiology Resident Teaching Case Conference (45 min, 5/23/2023)- Invited Teaching Conference
- May, 2023 Versatility, Synergy and Scale: Implementation of a Vessel Wall Imaging Program, Massachusetts General Brigham, Harvard Medical School, Grand Rounds (1 hour, 5/23/2023)- Invited Lecture
- May, 2023 Vessel Wall MR Imaging: How to Interpret and Clinical Applications, Foundation Adolphe de Rothschild Hospital, Paris, France (1 hour, 5/31/2023)- Invited Lecture
- July, 2023 Versatility, Synergy and Scale: Implementation of a Vessel Wall Imaging Program, Icahn School of Medicine at Mount Sinai, Grand Rounds (1 hour, 7/19/2023)- Invited Lecture
- July, 2023 Clinical Applications of Vessel Wall MR Imaging- Case Based Review, Icahn School of Medicine at Mount Sinai, Resident Teaching Conference (45min, 7/19/2023)- Invited Lecture
- Oct, 2023 Carotid Calcium: New Evidences, The Fil Rouge of Atherosclerosis: From Brain to Heart Imaging. Cagliari, Italy (15min, 10/7/2023)- Invited Lecture
- Feb, 2024 High-Resolution Imaging of Atherosclerotic Plaques, What Have We Learned?, International Stroke Conference. Phoenix, Arizona (12 min, Invited Symposium on Surrogate Biomarker of Symptomatic Atherosclerotic Plaques, 2/8/2024)- Invited Lecture

#### Organizing Roles in Scientific Meetings:

- Nov, 2019 Organizer, Invited Guest Lecture/Visiting Professor, John Kirsch, PhD from MGH Martinos Center (2 MRI physics lectures & 1 graduate/postdoc event: Academia to Industry)  
Meeting: Visiting Professor, University of Pennsylvania

- Aug, 2020 Moderator for Live Q&A for Neurovascular Imaging Session: Beyond the Lumen: Vessel Wall Imaging in Cerebrovascular Diseases  
Meeting: 30<sup>th</sup> Annual International Society of Magnetic Resonance Imaging, Sydney, Australia (Virtual Meeting due to COVID), 8/13/2020
- May, 2021 Moderator for Live Q&A for Cervical and Intracranial Vessel Wall Imaging Study Group  
Meeting: American Society of Neuroradiology, San Francisco, CA (Virtual Meeting due to COVID)
- Nov, 2021 Moderator for Scientific Session: Brain: Stroke (Risk Factors and Prevention) and Neoplasm (Post-Treatment Evaluation), Session ID: SSNR06  
Meeting: Radiological Society of North America, Chicago, Illinois, 11/30/2021
- May, 2022 Moderator for Scientific Session: Stroke and Ischemia: Bench-to-Bedside  
Meeting: ISMRM-ESMRMB & ISMRT 31st Annual Meeting, London, UK, 5/9/2022
- May, 2022 Moderator for Scientific Session: Stroke Imaging  
Meeting: American Society of Neuroradiology 60th Annual Meeting and Symposium Neuroradiologicum XXII, New York, NY, 5/17/2022
- Aug, 2022 Moderator & Scientific Committee for 4 Scientific Sessions  
Meeting: Eastern Neuroradiological Society 34th Annual Meeting Burlington, VT, 8/18-8/21/2022
- Sept, 2022 Moderator & Co-Chair of Plenary Session for Imaging of ICAS  
Meeting: Intracranial Atherosclerosis (ICAS), Rotterdam, The Netherlands, 9/16/2022
- Aug, 2023 Moderator for Stroke Imaging Session & Scientific Committee  
Meeting: Eastern Neuroradiological Society 35th Annual Meeting Charleston, SC, 8/24-8/27/2023
- Oct, 2023 Moderator for Understanding the Carotid and Beyond  
Expert Panel: What should be the target of the technological evolution?  
Meeting: The Fil Rouge of Atherosclerosis: From Brain to Heart Imaging

Cagliari, Italy, 10/5-10/7-2023.

- Nov, 2023 Moderator for Scientific Session: Brain: Stroke (Risk Factors and Prevention), Session ID: T3-SSNR07  
Meeting: Radiological Society of North America, Chicago, Illinois, 11/28/2023
- May, 2024 Moderator for Scientific Session: All About Head & Neck: Hemorrhage, Stroke & Beyond I: Imaging of Non-Hemorrhagic Stroke  
Meeting: International Society of Magnetic Resonance in Medicine, Singapore, 5/6/2024 (*upcoming*)

Grants:

Current:

American Heart Association Career Development Award (938082)  
Validation of Photon-Counting Computed Tomography of Carotid Plaque Composition in Patients with Ischemic Stroke  
7/1/2022-6/30/2025  
Role: PI

U01NS116776  
NIH NINDS  
Central Vein Sign: A Diagnostic Biomarker in Multiple Sclerosis  
4/1/2020-6/2025  
MPI: Ontaneda/Sicotte, Penn Site PI: R. Taki Shinohara. PhD  
Role: Co-Investigator

Translational Biomedical Imaging Center, ITMAT  
Machine Learning Algorithms for Calcific Carotid Plaque  
3/2022-2/2024  
MPI: Song/Noël/Cucchiara

University Research Foundation, University of Pennsylvania  
Spectral Computed Tomography for Vascular Imaging of the Neck in Ischemic Stroke  
8/2020-7/2023  
PI: Song

Past

The Thomas B. McCabe and Jeannette E. Laws McCabe Fund, ITMAT  
Sex-differences in Intracranial Arterial Wall Changes using 3 Tesla Multicontrast Vessel Wall MR Imaging  
7/2019-6/2022  
PI: Song

RSNA Scholar Grant, Radiological Society of North America  
Gender-differences in Intracranial Arterial Wall Changes using 3T and 7T Multicontrast



Vessel Wall MR Imaging

7/2019-6/2021

PI: Song

Ruth L. Kirschstein National Research Service Awards for Individual Postdoctoral Fellows (F32AR058105-01A1), NIAMS

An Outcome Study for Ulnar Neuropathy at the Elbow

1/2010-1/2012

PI: Song

American Society for Surgery of the Hand

Core Competencies for Hand Surgery Fellowship Training: A National Consensus Project

1/2010-1/2011

MPIs: Song/Chung

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#### Research Publications, peer reviewed (print or other media):

1. **Song, JW**, Misgeld T, Kang H, Knecht, S, Lu, J, Cao Y, Cotman SL, Bishop DL, Lichtman JW: Lysosomal Activity Associated with Developmental Axon Pruning. Journal of Neuroscience 28(36): 8993-9001, Sep 2008 Notes: **Cover**. PMC2693713
2. Chung KC, **Song JW**, Kim HM, Woolliscroft JO, Quint EH, Lukacs NW, Gyetko MR.: Predictors of Job Satisfaction among Academic Faculty: Do Instructional and Clinical Faculty Differ? Medical Education 44(10): 985-995, Oct 2010. Notes: PMC2950106
3. **Song JW**, Kim HM, Bellfi L, Chung, KC: The Effect of Study Design Biases on the Diagnostic Accuracy of Magnetic Resonance Imaging to Detect Silicone Breast Implant Ruptures: A Meta-Analysis. Plastic and Reconstructive Surgery 127(3): 1029-1044, Mar 2011. Notes: PMC3080104
4. Chung KC, Shauver MJ, **Song JW**, Noone RB, Directors of the American Board of Plastic Surgery: Adherence to Practice Guidelines Based on American Board of Plastic Surgery Maintenance of Certification Data. Plastic and Reconstructive Surgery 127(5): 2101-2107, May 2011. Notes: PMC8324425
5. Chung KC, **Song JW**, Shauver MJ, Noone RB: Certification Examination Cases of Candidates for Certification by the American Board of Plastic Surgery: Trends in Practice Profiles Spanning a Decade. Plastic and Reconstructive Surgery 128(2): 568-576, Aug 2011 Notes: PMID: PMC3144397
6. **Song JW**, Chung KC, Prosser LA: Treatment of Ulnar Neuropathy at the Elbow: A Cost-Utility Analysis. Journal of Hand Surgery 37(8): 1617-1629, Aug 2012. Notes: PMC7904237

7. Takahashi E, **Song JW**, Folkerth RD, Grant PE, Schmahmann JD: Detection of Postmortem Human Cerebellar Cortex and White Matter Pathways Using High Angular Resolution Diffusion Tractography: A Feasibility Study. Neuroimage 68c: 105-111, Dec 2012. Notes: PMC4393953
8. **Song JW**, Waljee JF, Burns PB, Chung KC, Gaston RG, Haase SC, Hammert WC, Lawton JN, Merrell GA, Nassab PF, Yang LJ: An Outcome Study for Ulnar Neuropathy at the Elbow: A Multicenter Study by the SUN Study Group. Neurosurgery 72(6): 971-982, Feb 2013. Notes: PMC4790107
9. Giladi AM, Gaston RG, Haase SC, Hammert WC, Lawton JN, Merrell GA, Nassab PF, **Song JW**, Yang LJ, Chung KC: Trend of Recovery after Simple Decompression for Treatment of Ulnar Neuropathy at the Elbow. Plastic and Reconstructive Surgery 131(4): 563-573, Apr 2013. Notes: PMC4794342
10. Baumer FM\*, **Song JW\***, Mitchell P, Pienaar R, Sahin M, Grant PE, Takahashi E: Longitudinal Changes in Diffusion Properties in the White Matter Pathways in Patients with Tuberous Sclerosis Complex. Pediatric Neurology 52(6): 615-623, Jun 2015. Notes: \*Equal contributions. PMC4442035
11. **Song JW**, Mitchell PD, Kolasinski J, Folkerth RD, Grant PE, Galaburda AM, Takahashi E: Asymmetry of White Matter Brain Pathways in Humans: Fetal, Neonatal, and Toddler Ages. Cerebral Cortex 25(9): 2883-2893, Sept 2015. Notes: PMC4537435
12. Miyazaki Y, **Song JW**, Takahashi E: Asymmetry of Radial and Symmetry of Tangential Neuronal Migration Pathways in Developing Human Fetal Brains. Frontiers Neuroanatomy 10(2): 101-115, Jan 2016. Notes: PMC4724714
13. **Song JW**, Gruber GM, Patsch JM, Seidl R, Prayer D, Kasprian G: How accurate are prenatal tractography results? A postnatal in vivo follow up DTI study. Pediatric Radiology 48(4): 486-498, Apr 2018. Notes: PMC5857276
14. Dovjak GO, Brugger PC, Gruber GM, **Song JW**, Weber M, Langs G, Bettelheim D, Prayer D, Kasprian G: Prenatal assessment of cerebellar vermian lobulation: fetal MRI with 3 Tesla post mortem correlation. Ultrasound Obstet Gynecol 25(5): 623-630, October 2018 Notes: PMID: 28782259
15. **Song JW**#, Obusez EC, Raymond SB, Rafla SD, Schaefer PW, Romero JM: Vessel Wall MRI Added to MR Angiography in the Evaluation of Suspected Vasculopathies. Journal of Neuroimaging 29(4): 454-457. Feb 2019. Notes: #Corresponding author. PMC2522292
16. Vasung L, Rezayev Z, Yun HJ, **Song JW**, van der Kouwe A, Stewart N, Palani A, et al.: Structural and Diffusion MRI Analyses with Histological Observations in

- Patients with Lissencephaly. Frontiers in Cell and Developmental Biology 7(124): 124, July 2019. Notes: PMC6637974
17. **Song JW#**, Guiry SC, Shou H, Wang S, Witschey WR, Messé SR, Kasner SE, Loevner LA: Qualitative Assessment and Reporting Quality of Intracranial Vessel Wall MR Imaging Studies: A Systematic Review. AJNR Am J Neuroradiology 40(12): 2025-2032, Nov 2019 Notes: #Corresponding author. PMC6911630
  18. **Song JW#**, Shou H, Obusez EC, Raymond SB, Rafla SD, Kharal GA, Schaefer PW, Romero JM: Spatial Distribution of Intracranial Vessel Wall Enhancement in Hypertension and Primary Angiitis of the CNS. Scientific Reports. 9(1), Dec 2019 Notes: #Corresponding author. PMC6917817
  19. Charvet CJ, Das A, **Song JW**, Tindal-Burgess DJ, Kabaria P, Guangping D, Kane T, Takahashi E: High Angular Resolution Diffusion MRI Reveals Conserved and Deviant Programs in the Paths that Guide Human Cortical Circuitry. Cerebral Cortex 30(3): 1447-1464, March 2020. Notes: PMC7132938
  20. **Song JW#**, Moon BF, Burke MP, Kamesh Iyer S, Elliott MA, Shou H, Messé SR, Kasner SE, Loevner LA, Schnall MD, Kirsch JE, Witschey WR, Fan Z: MR Intracranial Vessel Wall Imaging: A Systematic Review. Journal of Neuroimaging 30(4): 428-442, May 2020. Notes: #Corresponding author. Review of VWI MR Pulse Sequences and Protocols. PMC7946440
  21. Kamesh Iyer S, Moon BF, Josselyn N, Ruparel K, Roalf D, **Song JW**, Guiry S, Ware JB, Kurtz RM, Chawla S, Nabavizadeh SA, Witschey WR: Data-Driven Quantitative Susceptibility Mapping Using Loss Adaptive Dipole Inversion (LADI). J Magn Reson Imaging 52(3): 823-835, Sept 2020. Notes: PMC8034299
  22. Bathla G, Freeman CW, Moritani T, **Song JW**, Srivastava S, Soni N, Derdeyn C, Mohan S: Retrospective, dual-centre review of imaging findings in neurosarcoidosis at presentation: prevalence and imaging sub-types. Clinical Radiology 75(10): 796.e1-796.e9, Oct 2020. Notes: PMID: 32703543
  23. **Song JW#**, Pavlou A, Xiao J, Kasner SE, Fan Z, Messé SR: Vessel Wall MR Imaging Biomarkers of Symptomatic Intracranial Atherosclerosis: A Meta-Analysis. Stroke 52(1): 193-202, Jan 2021. Notes: #Corresponding author. PMC7773134
  24. **Song JW#**, Cao Q, Siegler JE, Thon JM, Woo JH, Cucchiara BL: Sex-differences in Carotid Plaque Composition in Patients with Embolic Stroke of Undetermined Source. Journal of the American Heart Association 10(9): e020143, May 2021. Notes: #Corresponding author. PMC8200747
  25. **Song JW#**, Pavlou A, Burke MP, Shou H, Atsina KB, Xiao J, Loevner LA, Mankoff D, Fan Z, Kasner SE.: Imaging Endpoints of Intracranial Atherosclerosis using

- Vessel Wall MR Imaging: A Systematic Review. Neuroradiology 63(6): 847-856, Jun 2021. Notes: #Corresponding author. PMC8024415
26. Montes D, Vranic J, Lim JC, **Song JW**, Silverman SB, Gonzalez RG, Romero JM: Cardiovascular Risk Factors Affect Specific Segments of the Intracranial Vasculature in High-Resolution (HR) Vessel Wall Imaging (VWI). Journal of Stroke and Cerebrovascular Diseases 30(10):106026, Oct 2021. Notes: PMID: 34407497
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  28. **Song JW**\*, Xiao J\*, Cen SY, Liu X, Wu F, Schlick K, Li D, Yang Q, Song S, Fan Z. Sex-Differences in Intracranial Atherosclerosis in Hypertensive Patients with Acute Ischemic Stroke. Journal of American Heart Association 11(10): e025579, May 2022. Notes: \*Equal contribution; PMID: 35574965
  29. Guggenberger KV, Vogt ML, **Song JW**, Weg AM, Froehlich M, Schmalzing M, Venhoff N, Hillenkamp J, Pham M, Meckel S, Bley TA. Intraorbital Findings in Giant Cell Arteritis on Black Blood MRI. European Radiology 33(4):2529-2523, Apr 2023. Notes: PMID 36394601
  30. Kamesh Iyer S, Moon BF, Josselyn NJ, Kurtz RM, **Song JW**, Ware, JB, Nabavizadeh SA, Witschey WR. Quantitative Susceptibility Mapping Using Plug-and-Play Alternating Direction Method of Multipliers. Scientific Reports 12(1):21679, Dec 2022. Notes: PMID 36522372
  31. Guggenberger KV\*, Pavlou A\*, Cao Q, Bhatt IJ, Cui QN, Bley TA, Curtin HD, Savatovsky J, **Song JW**#. Orbital Magnetic Resonance Imaging of Giant Cell Arteritis with Ocular Manifestations: A Systematic Review and Individual Participant Data Meta-Analysis. European Radiology May 2023. Notes: PMID 37256352. \*Equal contributions. #Corresponding author. Mentored diagnostic radiology residents (KVG, AP)
  32. Saba L, Cau R, Murgial A, Nicolaidis AN, Wintermark M, Castillo M, Staub D, Kakkos S, Yang Q, Paraskevas KI, Yuan C, Edjlali M, Sanfilippo R, Hendrikse J, Johansson E, Mossa-Basha M, Balu N, Dichgans M, Saloner D, Bos D, Jager RH, Naylor R, Faa G, Suri JS, Costello J, Auer DP, McNally S, Bonati LH, Nardi V, van der Lugt A, Griffin M, Wasserman BA, Kooi ME, Gillard J, Lanzino G, Mikhailidis DP, Mandell DM, Benson J, van Dam-Nolen D, Kopczak A, **Song JW**, Gupta A, Demarco JK, Chaturvedi S, Virmani R, Hatsukami T, Brown M, Moody AR, Libby P, Schindler A\*, Saam T\*. Carotid Plaque-RADS Classification, A Novel Stroke Risk Classification System. JACC Journal of the American College of Cardiology: Cardiovascular Imaging 7(1):62-75, Jan 2024.

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34. Rhee RL, Rebello R, Tamhankar MA, Banerjee S, Cao Q, Liu F, Fan Z, Bhatt V, Amudala N, Chou S, Liang R, Sanchez M, Burke M, Desiderio L, Loevner LA, Morris J, Merkel PA, **Song JW**. Combined Orbital and Cranial Vessel Wall Magnetic Resonance Imaging for the Assessment of Disease Activity in Giant Cell Arteritis. ACR Open Rheumatology. Jan 24 2024. Notes: PMID: 38265177
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36. **Song JW#**, Frame MY, Sellers RT, Klahn C, Fitzgerald K, Pomponio B, Schnall MD, Kasner SE, Loevner LA. Implementation of a Clinical Vessel Wall MR Imaging Program at an Academic Medical Center. American Journal of Neuroradiology. Jan 2024. Notes: Accepted. #Corresponding author.

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2. Chung, KC, **Song JW**, WRIST study group: A Guide to Organizing a Multicenter Clinical Trial. Plastic and Reconstructive Surgery Journal 126(2): 515-523, Aug 2010. Notes: PMC2917608
3. **Song JW**, Chung KC: Observational Studies: Cohort studies and Case-control study designs. Plastic and Reconstructive Surgery 126(6): 2234-2242, Dec 2010. Notes: PMC2998589
4. **Song JW**, Mango MC, Museru LM, Kesselman A, Foryoung K, Kiloloma O, Goodman TR, Minja FJ: Successful Implementation of a PACS in Tanzania. Journal of American College of Radiology 14(5): 710-713, May 2017. Notes: PMID: 28259497
5. **Song JW**, Wasserman BA: Vessel wall MR imaging of Intracranial Atherosclerosis. Cardiovascular Diagnosis and Therapy 10(4): 982-993, Aug 2020. Notes: PMC6028932

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7. Sakai Y, Lehman VT, Eisenmenger LB, Obusez EC, Kharal GA, Xiao J, Wang GJ, Fan Z, Cucchiara BL, **Song JW#**: Vessel Wall MR Imaging of Aortic Arch, Cervical Carotid, and Intracranial Arteries in Patients with Embolic Stroke of Undetermined Source: A Narrative Review. Frontiers in Neurology 13: 968390 July 2022. Notes: #Corresponding author. Mentored PGY3/R2 diagnostic radiology resident (YS). PMC9366886
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11. Kang DW, Kim DY, Kim J, Baik SH, Jung C, Singh N, **Song JW**, Bae HJ, Kim BJ. Emerging Concept of Intracranial Arterial Diseases: The Role of High Resolution Vessel Wall MRI. Journal of Stroke Jan 2024;26(1):26-40. Notes: PMC10850450

Research Publications, not peer-reviewed:

1. Guggenberger KV\*, Pavlou A\*, Cao Q, Bhatt IJ, Cui QN, Bley TA, Curtin HD, Savatovsky J, **Song JW#**. Orbital Magnetic Resonance Imaging of Ocular Giant Cell Arteritis: A Systematic Review and Individual Participant Data Meta-Analysis. medRxiv. 2022.11.11.22282193. Notes: \*Equal contributions. #Corresponding author. Mentored diagnostic radiology residents (KVG, AP)
2. Witsch J, Cao Q, **Song JW**, L Yunshi, Sloane KL, Rothstein A, Favilla CG, Cucchiara BL, Kasner SE, Messé SR, Choi HA, McCullough LD, Mayer SA, Gusdon AM. Sex differences in Perihematomal Edema Volume and Outcome after Intracerebral Hemorrhage. medRxiv. 2023.10.1101/2023.09/28.23296302

Contributions to peer-reviewed research publications, participation cited but not by authorship:

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2. Burns PB, Kim HM, Gaston RG, Haase SC, Hammert WC, Lawton JN, Merrell GA, Nassab PF, Yang LJ, Chung KC: Predictors of functional outcomes after simple decompression for ulnar neuropathy at the elbow: a multicenter study by the SUN study group. Archives of Physical Medicine and Rehabilitation 95(4): 680-685, Apr 2014. Notes: PMID: 24252584
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#### Abstracts:

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2. **Song JW**: Mistaken Identity: Meningitis versus Encephalitis. American College of Physicians: Internal Medicine, Doctors for Adults, ACP Annual National Conference March 2005 Notes: Poster Presentation by JWS.
3. **Song JW**, Knecht S, Kang H, Bishop DL, Cotman SL, Misgeld T, Lichtman JW: Lysosomal Activity Associated with Axon Pruning during Development. Society for Neuroscience. Notes: Poster Presentation by JWS. Sept 2007.
4. **Song JW**, Chung KC, Prosser LA: Ulnar Neuropathy at the Elbow: A Cost-Utility Analysis. Society for Medical Decision Making, Oct 2011 Notes: Poster Presentation by JWS.
5. **Song JW**, Folkerth RD, Grant PE, Takahashi E: Emerging Left-Right Asymmetry of White Matter Brain Pathways in Humans: Fetal, Neonatal, and Toddler Stages (3156). International Society for Magnetic Resonance in Medicine May 2012. Notes: Poster Presentation by JWS.
6. Takahashi E, **Song JW**, Folkerth RD, Schmahmann J, Grant PE: Development of Cerebellar White Matter and Cortical Connections in Humans (3157). International Society for Magnetic Resonance in Medicine May 2012. Notes: Poster Presentation by ET
7. Baumer FM\*, **Song JW**\*, Mitchell PD, Pienaar R, Sahin M, Grant PE, Takahashi E: Longitudinal Changes in Diffusion Properties in the White Matter Pathways in Patients with Tuberous Sclerosis Complex (#5179). International Society for

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8. **Song JW**, Takahashi E: Emerging Callosal Pathways in Mice and Humans Using High Angular Resolution Diffusion MRI (HARDI) Tractography (#493). Society for Neuroscience September 2014 Notes: Poster Presentation by JWS
  9. **Song JW**, Scoutt L, Hooley R, Revzin M: Sonographic Evaluation of the Pelvis Following Methotrexate Administration in a Patient with Ectopic Pregnancy: What the Radiologist Should Know. Radiological Society of North America, Dec 2014 Notes: Poster Presentation by JWS
  10. Narin O, **Song JW**, Zucconi W: Persistent Carotid-Vertebrobasilar Anastomoses Revisited. American Roentgen Ray Society April 2015 Notes: Poster Presentation by ON
  11. **Song JW**, Smitaman E: Imaging Neuropathic Osteoarthropathy (E1495). American Roentgen Ray Society April 2016 Notes: Poster Presentation by JWS
  12. **Song JW**, Narin O, Zucconi W: Pictorial Review of Acquired Brain Herniations (E5387). American Roentgen Ray Society April 2016 Notes: Poster Presentation by JWS.
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  14. **Song JW**, Gruber GM, Patsch J, Prayer D, Kasprian G: How reliable are prenatal tractography results? A postnatal in vivo follow up DTI study (eP-170). American Society of Neuroradiology May 2016 Notes: Poster Presentation by JWS.
  15. **Song JW**, Mustafa A: Flow-Related Artifacts and Pitfalls in Magnetic Resonance Imaging/Angiography in Neuroradiology (3581). International Society of Magnetic Resonance Imaging in Medicine May 2016. Notes: Poster Presentation by JWS.
  16. **Song JW**, Takahashi E: Emerging callosal pathways in mice and humans using high angular resolution diffusion MRI (HARDI) tractography (#493). Society for Neuroscience Sept 2017. Notes: Poster Presentation by JWS.
  17. Obusez EC, **Song JW**, Raymond SB, Montes D, Romero JM: Follow-up of MR Vessel Wall Imaging Findings in Patients with Primary Central Nervous System Vasculitis. American Society of Neuroradiology May 2019, Boston, MA. Notes: Poster presentation by ECO
  18. **Song JW**, Guiry SC, Moon BF, Shou H, Wang S, Messe S, Kasner SE, Fan Z, Witschey WR, Loevner LA. Reporting Quality and MR Technical Heterogeneity



- of Intracranial Vessel Wall MR Imaging: A Systematic Review. Radiological Society of North America Nov 2019. Notes: Oral Presentation by JWS
19. Bathla G, Freeman C, Soni N, Moritani T, **Song JW**, Mohan S: Ischemic and Hemorrhagic events in Neurosarcoidosis: Exploring Imaging Based Markers of Increased Risk. American Society of Neuroradiology June 2020 Notes: Oral Presentation by GB (virtual due to COVID)), #1375.
  20. Bathla G, Freeman C, Soni N, Moritani T, **Song JW**, Mohan S, Derdeyn C: Retrospective, Dual-Center Review of Imaging Findings in Neurosarcoidosis at Presentation: Prevalence and Imaging Subtypes. American Society of Neuroradiology June 2020. Notes: Oral Presentation by GB (virtual due to COVID), #1374.
  21. Buaku-Astina, K, Rothstein A, Messé SR, **Song, JW**: Intracranial Vessel Wall MR imaging of an Intradural Vertebral Artery Dissection. Eastern Neuroradiological Society August 2020. Notes: Poster Presentation by KBA. Mentored Neuroradiology Fellow (KBA).
  22. Xiao J, **Song JW**, Fang W, Tao J, Shlee SS, Schlick K, Li D, Qi Y, Fan Z: Hypertension is Associated with the Diffuseness of Intracranial Atherosclerotic Disease: A Cross-sectional MR Vessel Wall Imaging Study (#7057). International Society of Magnetic Resonance Imaging in Medicine August 2020. Notes: Digital Poster (presented virtually by JX)
  23. **Song JW**, Pavlou A, Xiao J, Messe SR, Kasner SE, Fan Z, Loevner LA. Imaging Endpoints by Pulse Sequence Type for Intracranial Atherosclerosis using Vessel Wall MR Imaging (#1061). International Society of Magnetic Resonance Imaging in Medicine August 2020. Notes: Oral Presentation by JWS (Virtual)
  24. Kamesh Iyer S, Moon BF, Josselyn NJ, Hwuang E, Ware JB, Roalf D, **Song JW**, Nabavizdeh SA, Witschey WR: A Non-local Filtering Based Approach For High Quality Quantitative Susceptibility Mapping Reconstruction (#5019). International Society of Magnetic Resonance Imaging in Medicine August 2020. Notes: Digital Poster (presented virtually by SIK due to COVID)
  25. **Song JW**, Cao Q, Siegler JE, Thon JM, Woo JH, Cucchiara BL: Sex-differences in Carotid Plaque Composition in Patients with Embolic Stroke of Undetermined Source. Penn Promotes Research on Sex and Gender in Health. Oct 2020. Notes: Virtual Poster Presentation by JWS.
  26. Kharal GA, **Song JW**, Obusez EC, Raymond SB, Lim J, Jones S, Schaefer P, Romero JM: Intracranial Vessel Wall Magnetic Resonance Imaging (VW-MRI) as an Adjunct Imaging Tool for Assessing Disease Severity and Monitoring of Treatment Response in Cerebral Vasculitis. International Journal of Stroke. Sage, 15(1\_ SUPPL): 311-311, Nov 2020. Notes: E-Poster by GAK.

27. **Song JW**, Pavlou A, Xiao J, Kasner SE, Fan Z, Messe SR: Vessel Wall Magnetic Resonance Imaging Biomarkers of Symptomatic Intracranial Atherosclerosis: A Meta-Analysis. International Stroke Conference (A35), Feb 2021. Notes: Oral Abstract Presentation by JWS (Virtual)
28. **Song JW**, Siegler JE, Thon JM, Woo JH, Cucchiara BL: Sex-Differences in Carotid Plaque Composition in Patients with Embolic Stroke of Undetermined Source (P372). Stroke 52(Suppl\_1), Feb 2021.
29. **Song JW**, Pavlou A, Xiao J, Kasner SE, Fan Z, Messé S: Vessel Wall Magnetic Resonance Imaging Biomarkers of Symptomatic Intracranial Atherosclerosis: A Meta-Analysis. Stroke 52(Suppl\_1), March 2021.
30. **Song JW**, Arnett N, Burke MP, Cucchiara BL, Rhee RL: Vessel Wall MR Imaging of CNS Vasculitis: A Systematic Review. Eastern Neuroradiological Society Aug 2021. Notes: Oral Abstract Presentation by JWS (Virtual)
31. **Song JW**, Cao Q, Siegler JE, Woo JH, Cucchiara BL: Features of Calcified Carotid Atherosclerosis are Associated with Stroke in Patients with Embolic Stroke of Undetermined Source (P3581). Stroke 53(Suppl\_1), Feb 2022.
32. **Song JW**, Xiao J, Liu X, Wu F, Schlick K, Yang Q, Song SS, Fan Z: Sex-differences in Intracranial Atherosclerosis Among Hypertensive Patients with Ischemic Stroke (P2827). Stroke 53(Suppl\_1), Feb 2022.
33. Saucedo J, Mattay M, Lehman VT, Xiao J, Obusez E, Fan A, **Song JW**: A Review of Current Clinical Applications of Intracranial Vessel Wall MR Imaging (E1428). American Roentgen Ray Society May 2022 Notes: (Educational Exhibit, Mentored a medical student MS4 (JS); *Certificate of Merit Award*)
34. Bhatt I, Cucchiara BL, Loevner LA, **Song JW**: Sex-Differences of Cervical Carotid and Intracranial Atherosclerosis (EE406). American Society of Neuroradiology, New York City, NY, May 2022 Notes: Educational Exhibit, Mentored a DUCOM medical student MS2 (IB)
35. **Song JW**, Xiao J, Liu X, Wu F, Schlick K, Yang Q, Song SS, Fan Z: Sex-Differences in Intracranial Plaque Burden in Hypertensive Patients with Acute Ischemic Stroke: A Vessel Wall MR Imaging Study (#5474). International Society of Magnetic Resonance in Medicine London, UK, May 2022. Notes: Oral Presentation by JWS in Vessel Wall and Function Scientific Session
36. Xiao J, **Song JW**, Liu X, Wu F, Schlick K, Yang Q, Song SS, Fan Z: Hypertension is Associated with Intracranial Atherosclerotic Plaque Burden and Distribution: a MR Vessel Wall Imaging Study (#7253). International Society of Magnetic Resonance in Medicine, London, UK, May 2022. Notes: Oral Power Pitch by JX

## in Vascular Imaging and Stroke Session

37. Rhee RL, Bhatt V, Banerjee S, Tamhankar MA, Amudala N, Chou S, Burke M, Merkel PA, **Song, JW**. MRI of Orbital and Cranial Arteries in Giant Cell Arteritis. International Vasculitis and ANCA Workshop, Dublin, Ireland, April 2022. Notes: Poster Presentation by RLR
38. Rhee RL, Bhatt V, Banerjee S, Tamhankar MA, Amudala N, Chou S, Burke M, Merkel PA, **Song, JW**. Comprehensive Assessment of Cranial and Orbital Vasculature on MRI in Patients with Giant Cell Arteritis. International Vasculitis and ANCA Workshop, Dublin, Ireland, April 2022. Notes: Oral Presentation by RLR
39. Manning AR, Letchuman V, Martin ML, Gombos E, Robert-Fitzgerald T, Cao Q, Raza P, O'Donnell C, Renner B, Daboul L, Rodrigues P, Ramos M, Derbyshire J, Azevedo C, Bar-Or A, Caverzasi E, Calabresi P, Cree BA, Freeman L, Henry RG, Longbrake EE, Oh J, Papinutto N, Pelletier D, Samudralwar RD, Suthiphosuwana S, Schindler MK, Bilello M, **Song JW**, Sotirchos ES, Sicotte NL, Al-Louzi O, Solomon AJ, Reich DS, Ontaneda D, Sati P, Shinohara RT. A Comparison in Performance of an Automated Central Vein Sign (CVS) Detection Method, Select-6\* Counts, and CVS+ Proportions for the Diagnosis of Multiple Sclerosis – A Multicenter Study (#1006). 38th Congress of ECTRIMS & 27th Annual Conference of Rehabilitation in MS (RIMS), San Diego, CA, Oct 2022. Notes: Poster presentation by ARM. 10/26/2022.
40. **Song JW**, Pavlou A, Burke MB, Guggenberger K, Bley TA. Magnetic Resonance Imaging of Giant Cell Arteritis with Ocular Involvement: A Systematic Review (#6780). Radiological Society of North America, Chicago, IL, Nov 2022. Notes: Moderated Digital Poster Presentation by JWS- 11/29/2022.
41. Guggenberger KV, Vogt ML, **Song JW**, Weng AM, Fröhlich M, Schmalzing M, Venhoff N, Hillenkamp J, Pham M, Meckel S, Bley TA. Intraorbital Findings in Giant Cell Arteritis on Black Blood MRI (#8463). Radiological Society of North America, Chicago, IL, Nov 2022. Notes: Moderated Digital Poster Presentation by KVG- 11/29/2022
42. Rhee RL, Banerjee S, Bhatt V, Tamhankar MA, Cao, Q, Amudala N, Chou S, Burke M, Loevner LA, Merkel PA, **Song, JW**. Combined Orbital and Cranial Vessel Wall MRI for Diagnosis and Longitudinal Monitoring of Giant Cell Arteritis (#1289362). American College of Rheumatology Convergence 2022, Phila, PA, Nov 2022. Notes: Oral Presentation by RLR, 11/13/2022.
43. Rhee RL, Banerjee S, Bhatt V, Tamhankar MA, Amudala N, Chou S, Burke M, Loevner LA, Merkel PA, **Song, JW**. Comprehensive Assessment of Cranial and Orbital Vasculature on MRI in Patients with Giant Cell Arteritis (#1289414). American College of Rheumatology Convergence 2022, Phila, PA, Nov 2022. Notes: Poster Presentation by RLR, 11/13/2022.

44. Sakai Y, Cao Q, Pasyar P, Noel PB, Witsch J, Kasner SE, Cucchiara BL, **Song JW**. Systematic Review of Aortic Atherosclerotic Plaque in Cryptogenic Stroke (#4131, TP86). Stroke 54 (Suppl\_1), ATP86. Notes: Poster Presentation. Mentored a Penn Radiology Resident (YS), Dallas, TX, 2/9/2023.
45. Witsch J, Luo Y, Sloane KL, Rothstein A, **Song JW**, Favilla CG, Cucchiara BL, Kasner SE, Messe SR, Choi HA, Cao Q, Gusdon AM. Sex Differences in Perihematomal Edema Volume and Outcome After Intracerebral Hemorrhage (#4075). Stroke 54 (Suppl\_1), A166. Notes: Oral Presentation by JW, Dallas, TX, 2/10/2023.
46. **Song JW**, Guggenberger KV, Pavlou A, Cao Q, Bhatt IJ, Bley TA, Curtin HD, Savatovsky J. Orbital Magnetic Resonance Imaging of Arteritic Ischemic Optic Neuropathy: A Systematic Review (#1375113). North American Neuro-Ophthalmology Society 49<sup>th</sup> Annual Meeting, Orlando, FL. Notes: Poster Presentation by JWS, 3/12/2023
46. Madhusoodhanan SN, Jin J, Han F, Renner B, Gombos E, Liu KC, Patil S, Derbyshire JA, Sakale K, Obusez E, Lee J, Elliott MA, Shinohara RT, Schindler MK, **Song JW**, Bilello M, Kaisey M, Al-Louzi O, Binesh N, Maya M, Galvan J, Han H, Li D, Solomon A, Reich DS, Sicotte NL, Lowe M, Ontaneda, Sati P. Feasibility of ultra-fast, high-resolution, T2\*-weighted brain imaging using 3D echo-planar imaging and CAIPIRINHA (#1503). International Society for Magnetic Resonance in Medicine, Toronto, Canada. Notes: Poster Presentation by SNM, 6/3/2023
46. Quah B, Madhusoodhanan SN, Jin J, Han F, Renner B, Gombos E, Liu KC, Patil S, Derbyshire JA, Sakale K, Obusez E, Lee J, Elliott MA, Shinohara RT, Schindler MK, **Song JW**, Bilello M, Kaisey M, Binesh N, Maya M, Galvan J, Han H, Li D, Solomon A, Reich DS, Sicotte NL, Lowe M, Ontaneda, Sati P. Denoising highly accelerated T2\*-weighted brain MRI using a deep learning convolutional neural network (#1464). International Society for Magnetic Resonance in Medicine, Toronto, Canada. Notes: Poster Presentation by BQ, 6/3/2023
47. Arnett N, Cao Q, Dang QA, Su Y, Siegler J, Bos D, Saba L, Kasner SE, Cucchiara BL, Haehn D, **Song JW**. Density of carotid plaque calcifications and vulnerable plaque in patients with embolic stroke of undetermined source (#1454). European Stroke Organisation Conference, Munich, Germany. Notes: Poster Presentation by NA, Mentored a PSOM MS4 medical student (NA), 5/24/2023
48. Kim J, Arnett N, Cucchiara BL, Kotler J, Shah D, **Song JW**, Haehn D. Streamlined Carotid Artery Calcification labeling for CTA Scans. (#534 Artificial Intelligence/Machine Learning Session). Society of Cardiovascular Computed Tomography 2023, Boston, MA. Notes: Poster Presentation by JK, PhD Candidate at UMass, 6/29/2023

49. Sakai Y, Cao Q, Witsch J, Cohen-Addad D, de Macedo Rodrigues K, Coco-Martin MB, Pasyar P, Juega J, Kasner SE, Cucchiara BL, **Song JW**. Imaging Biomarkers of Complex Aortic Atherosclerotic Plaque by Imaging Modality Type in Cryptogenic Stroke. Eastern Neuroradiological Society 2023, Charleston, SC. Notes: *Robert D. Zimmerman Scientific Award*, Oral Presentation by YS, Mentored Penn Diagnostic Radiology Resident (YS), 8/24/2023
50. Bae E, Ren Z, Manning AR, Letchuman V, Gombos E, Raza P, O'Donnell CM, Renner B, Daboul L, Derbyshire JA, Azevedo CJ, Bar-Or A, Caverzasi E, Calabresi PA, Cree BAC, Longbrake EE, Oh J, Papinutto N, Pelletier D, Samudralwar RD, Suthiphosuwana S, Schindler MK, **Song JW**, Sotirchos ES, Sicotte NL, Al-Louzi O, Reich DS, Ontaneda D, Shinohara RT\*, Solomon AJ\*, Sweeney EM\* and the NAIMS Cooperative. Imaging and non-imaging biomarkers – Big data and artificial intelligence Session). Automated Biomarkers for Multiple Sclerosis Diagnosis with Radiomic Heterogeneity in 3T T2\* weighted EPI Magnitude (#416). European Committee for Treatment and Research in Multiple Sclerosis 2023, Milan, Italy. Notes: Poster Presentation by EB, PhD Candidate at Penn Biostatistics, \*Equal Contributions, 10/12/2023
51. Sakai Y, Arnett N, Cao Q, Su Y, Pandey S, Siegler JE, Saba L, Woo JH, Kasner SE, Cucchiara BL, **Song JW**. Low Proportion of Calcification in Large Volume Plaque as a Marker of Carotid Plaque Vulnerability in Embolic Stroke of Undetermined Source (#9235). Radiological Society of North America, Chicago, IL. Notes: Digital Poster Presentation by YS, Mentored Diagnostic Radiology Residency (YS), 11/29/2023
52. Favilla CG, Patel H, Abassi MH, Thon J, Mullen MT, Kasner SE, **Song JW**, Cummings S, Messe SR. Infarct Density: A Novel Imaging Biomarker of Long-Term Functional Outcome after Endovascular Thrombectomy. Stroke: Vascular and Interventional Neurology, Miami, Florida: 3: e12823\_013. Notes: Presentation by CGF, 11/10/2023.
53. **Song JW**, Colfer M, Pasyar P, Kasner SE, Cucchiara BL, Saba L, Noël PB, Woo, JH. Image Quality Assessment of Photon Counting Computed Tomography Angiography of the Head and Neck (#4462, TP138). International Stroke Conference, Phoenix, AZ. Notes: Poster Presentation by JWS, 2/8/2024
54. Koneru M, Sakai Y, Pandey S, Woo JH, Kasner SE, Cucchiara BL, Saba L, **Song JW**#. Validation of a New Plaque-RADS Classification System to a Cohort of Embolic Stroke of Undetermined Source Patients (#4581). International Stroke Conference, Phoenix, AZ. Notes: Oral Presentation by MK. Mentored Cooper medical student (MS4) MK. 2/7/2024.
55. Kang DW, Kim DY, Kim J, Kim N, Ko Y, Cha J, **Song JW**, Kim JY, Baik SH, Jung C, Han MK, Bae HJ, Kim BJ. Temporal Changes in Intracranial Arterial

Diseases: A Longitudinal High-Resolution Vessel Wall Imaging Analysis. (Oral #38). International Stroke Conference, Phoenix, AZ. Notes: Oral Presentation by DWK. 2/7/2024.

56. Pandey S, Taso M, Fan Z, Guggenberger K, Tran A, Raymond S, Lyo S, Sanchez M, Sellers R, Savatovsky J, Zhu C, **Song JW**#, Tisdall MD#. Evaluation of Acceleration Methods for Clinical T1-weighted Vessel Wall Imaging (#4183). International Society of Magnetic Resonance in Medicine, Singapore. Notes: Digital Poster Presentation by SP. Mentored postdoctoral fellow (SP). #Equal contributions. 5/7/2024.

Editorials, Reviews, Chapters, including participation in committee reports (print or other media):

1. Liang MK, Yee HT, **Song JW**, and Marks JL: Subdiaphragmatic Bronchogenic Cysts: A Comprehensive Review of the Literature. American Surgeon 71(12): 1034-1041, Dec 2005. Notes: PMID 16447475
2. **Song JW**, Yang LJS, and Russell SM: Peripheral Nerve: What's new in basic science laboratories? Neurosurgery Clinics of North America 20(1): 121-131, Jan 2009. Notes: PMID 19064185
3. **Song JW**, Chung KC: Discussion. The effect of electroacustimulation on postoperative nausea, vomiting, and pain in outpatient plastic surgery patients: a prospective, randomized, blinded, clinical trial. Plastic and Reconstructive Surgery 125(3): 995-997, Mar 2010. Notes: (Commentary) PMID 20195125
4. Ziewacz JE, **Song JW**, Blavias M, Yang LJS: Radiation-Induced Meningeal Osteosarcoma of Tentorium Cerebelli with Intradural Spinal Metastases: Case Report. Surgical Neurology International 1: 14, May 2010. Notes: PMC2908355
5. Fang F, **Song JW**, Chung KC: Discussion. Refining outcomes in dorsal hand coverage: consideration of aesthetics and donor-site morbidity. Plast Reconstr Surg 126(5): 1639-1641, Nov 2010. Notes: PMC8321878
6. **Song JW**, Wolf S, McGillicuddy JW, Yang JLS: Laparoscopic Triple Neurectomy for Intractable Groin Pain: Technical Report of 3 Cases. Neurosurgery 68(2): 339-346, Jun 2011. Notes: PMID: 21336213
7. **Song JW**, Chung KC: Scaphoid fracture and nonunions. American Society for Surgery of the Hand 2011. Notes: (Book Chapter).
8. **Song JW**, Ersahin D, Much M, Grant T, Smitaman E: An exceptional case of xanthomatous infiltration of the musculoskeletal and integumentary systems. Skeletal Radiology 44(8): 1181-1187, Aug 2015. Notes: PMID: 25690426

9. **Song JW#**, Ojeda S, Romero JM: High resolution vessel wall MRI and vasculopathy related to herpes zoster ophthalmicus. Clinical Imaging 50: 336-339, Jul-Aug 2018 Notes: #Corresponding author. PMID: 29754069
10. **Song JW#**, Rafla SD, Obusez EC, Raymond SB, Gurol EM, Schaefer PW, Romero JM: High resolution vessel wall MR imaging in prestenotic intracranial atherosclerotic disease. Journal of Clinical Neuroscience S0967(18): 31575-3, Jan 2019. Notes: #Corresponding author. PMID: 30683465
11. Soun JE, **Song JW**, Romero JM, Schaefer PW: Central Nervous System Vasculopathies. Radiologic Clinics of North America 57(6): 1117-1131, July 2019. Notes: PMID: 31582039
12. **Song JW**: Impact of Vessel Wall MR Imaging in the Work-Up for Ischemic Stroke. AJNR Am J Neuroradiology 40(10): 1707-1708, Sept 2019 Notes: (Editorial). PMC7028565
13. **Song JW#**, Lehman L, Rivkin M, Gorman MP, Yang E: Serial Vessel Wall MR Imaging of Pediatric Tuberculous Vasculitis. Neurology: Clinical Practice 9(6): 459-461, Dec 2019. Notes: #Corresponding author. PMC6927457
14. Atsina KB, Rothstein A, Messé SR, **Song JW#**: Intracranial Vessel Wall MR imaging of an Intradural Vertebral Artery Dissection. Clinical Imaging 68: 108-110, June 2020. Notes: #Corresponding author. PMID: 32585416
15. **Song JW**, Fan Z: Emerging multi-modal diagnostic approaches for moyamoya disease. Annals of Translational Medicine. 8(19): 1208, Jul 2020. Notes: (Editorial.) PMC7607114
16. **Song JW#**, Reyes-Esteves S, Cucchiara BL: Vessel Wall Imaging of Basilar Artery Perforator Disease. Annals of Neurology 89(3): 617-618, Mar 2021. Notes: #Corresponding author. PMID: 33274478
17. Cox M, **Song JW#**, Nabavizadeh SA, Kung D, Loevner LA, Choudhri O: Detection of Angiographically Occult Ruptured Basilar Sidewall Perforator Aneurysm by Vessel Wall MR Imaging. The Neurohospitalist 11(2): 156-159, Apr 2021. Notes: #Corresponding author. PMC7958693
18. Tewkesbury G, **Song JW**, Perrone CM: Magnetic Resonance Imaging of Autoimmune GFAP Astrocytopathy. Annals of Neurology Aug 2021. Notes: PMID: 34390019
19. Mattay RR, Saucedo JF, Lehman VT, Xiao J, Obusez EC, Raymond SB, Fan Z, **Song JW#**: Current Clinical Applications of Intracranial Vessel Wall MR Imaging. Seminars in Ultrasound, CT, and MRI 42(5): 463-473, Oct 2021 Notes: #Corresponding author. Mentored Neuroradiology Fellow (RRM) and medical

student (JFS). PMC8453001

20. Su Y, Stein LA, Cucchiara BL, **Song JW#**: Vessel Wall Imaging of a Carotid Web. Annals of Neurology 92(2): 335-336, Aug 2022. Notes: #Corresponding author. Mentored medical student (YS). PMID: 35638145
21. Dang QA, Andres W, Cucchiara BL, **Song JW#**: Vessel Wall MR Imaging of a Non-Stenotic Craniocervical Vertebral Artery Dissection. Stroke Sept 2022. Notes: #Corresponding author. Mentored medical student (QAD). PMID: 36128902
22. Su Y, Dastgheyb S, Balzer-Haas N, **Song JW**, Jones J. Teaching Case: Radiation Myonecrosis Following Stereotactic Body Radiology Therapy in Metastatic Renal Cell Carcinoma. Applied Radiation Oncology 11(4):26-31, 2022. Notes: Mentored PSOM MS1 medical student (YS).
23. Bhatt IJ, Tewkesbury GM, Dayno RM, Glaser J, Kolasinski SL, Shindler KS, Song JW. Ophthalmic Artery Vessel Wall Inflammation in a Patient with Giant Cell Arteritis Presenting with Vision Loss: A Case Report. Journal of Neuro-Ophthalmology 2024. Notes: Accepted. Mentored DUCOM MS3 medical student (IJB).

#### Books:

1. **Song, JW**: Deja Review: Histology & Medical Cell Biology. McGraw-Hill 2010  
Notes: (Editor of book.) ISBN-10: 9780071627269.

#### Alternative Media:

1. Miller JC, Romero JM, **Song JW**: High Resolution MR of Arterial Vessel Walls. Radiology Rounds. Massachusetts General Hospital, Department of Radiology 15(3), March 2017 Notes: (Newsletter).
2. **Song JW**, Curtin HD: Pearls from the Pros. ASNR Young Professionals Newsletter Spring 2021 May 2021 Notes: <https://www.asnr.org/dr-hugh-curtin/>