Simukayi “Simi” Mutasa: Board Certified Musculoskeletal Radiologist

New York, NY
simirad.com stmutasa@gmail.com

EDUCATION

Thomas Jefferson University Hospital: Division of Musculoskeletal Imaging Philadelphia, PA
Fellow – Musculoskeletal Radiology 07/10/2020 – 07/09/2021

New York-Presbyterian Hospital: Columbia University Medical Center New York, NY
Resident – Radiology 07/01/2016 – 06/30/2020
Chief Resident 03/17-03/19

The University of Texas Medical Branch Galveston, TX
M.D. Class of 2015, with AOA honors 08/11 – 06/15
Internship – Internal Medicine 07/23/2015 – 07/22/2016

The University of Texas at Austin Austin, TX
B.S. in Biochemistry 05/09
Additional Studies in Petroleum Engineering

WORK EXPERIENCE

Radiology work under Ugen Imaging LLC
Active medical licenses (13): CO, CT, DE, FL, GA, IL, MD, MN, NY, OH, PA, RI, TX
Applications in process: KY, NV, TN, WI

Remote Locums New York, NY
Independent contractor under Ugen Imaging LLC April ‘25 - Present
- Emergency Room Coverage

Millennium Medical New York, NY
Remote Temporary Contractor Radiologist May ‘24 – Dec ‘25
- MSK Radiology reads

USARAD Remote
Remote Radiologist March ’23 – July ‘26
- Covered all Radiology Modalities

Lenox Hill Radiology New York, NY
Radiologist Jan ‘22 – Feb ‘23
- Musculoskeletal and Body Radiology including procedures

Locum Tenens Chicago, IL
On Site Locums Radiologist Oct ’21 – Dec ‘21

UC: Irvine Center for AI in Diagnostic Medicine Irvine, CA
Summer Research Fellow July 15 – Sep 1, 2019

- Managed team of software engineers from inception to completion of AI Projects
- Assisted with the development of a distributed deep-learning system
- Teaching Assistant for UC: Irvine Intro to AI in Medicine course
- Developed skills in database management, containers, and network engineering

Halliburton Denver, CO
Technical Professional – Drilling and Completions Engineer May ’09 – May ’11

- Finished 1st in 2009 engineering class in all three phases of a rigorous training program.
- Devised, simulated, implemented and reviewed effective and economical zonal isolation procedures alone and in teams.
- Performed and coordinated entire workflow procedures from job proposals to post job analyses in technically demanding drilling regions.
- Interacted with clients and supervised the safe operation of cementing crews.

PRESS MENTIONS

R38 Grant Award: https://www.columbiaradiology.org/news/dr-simukayi-mutasa-receives-grant- columbia-cancer-training-program-resident-investigators-capri
Garden Fractures: https://www.healthimaging.com/topics/artificial-intelligence/ai-hip-fractures- emergency-radiology-triage

LEADERSHIP POSITIONS

Society of Imaging Informatics Research Committee Leesburg, VA
Member of Machine Learning Research Tools sub-committee 7, 2020-Present

- Charged with advancing translational/reproducible research and fostering standards.

New York-Presbyterian Hospital – Arterys Partnership New York, NY
Clinical Lead August, 2018-2020

- Served as the clinical integration lead on integrating Arterys’ AI platform

Radiology Residency – Columbia University Medical Center New York, NY
Chief Resident July, 2017-2019

- Served as junior chief resident in 2017 calendar year
- Continued as senior chief resident in 2018 calendar year

VOLUNTEER WORK

SIIM ML Research Tools Sub Committee Sept ’19 - Present
Society of Imaging Informatics

- Advanced translational / reproducible research, fostered standards for AI research

NYPH COVID-19 Response New York, NY
NewYork-Presbyterian Hospital March ’20 – May ‘20

- Served as junior clinical resident in repurposed OR ICU
- Worked as portable X-Ray technologist

Manuscript Reviewer
The Journal of Digital Imaging April ’18 – Present
Nature: Scientific Reports December ’19 - Present
Radiotherapy & Oncology July ’20 – Present

Scientific Session Moderator National Harbor, MD
Machine Learning: MSK & Women’s Imaging May 2018

HONORS AND AWARDS

- Ranked #1 H-Index Among Radiology Co-Residents 2025
    - o Columbia ranked in top 10 nationally
- NIH: StARR R38 Research Grant. $60k 2019-2020
    - o Eligible for K-38 limited competition award
- Columbia Herbert Irving Cancer Center Velocity Grant. $100k 2019 – 2020
    - o Co – investigator for translational research award
- Society of Imaging Informatics Best Scientific Paper Award 2018
- Roger A Bauman, MD Award SIIM 2018
    - o The Bauman Award is presented to the best trainee paper in informatics each year at the SIIM annual meeting.
- RSNA Student Travel Award Recipient 2018
- American Roentgen Ray Society scholar grant 2017
- Thayer Award for Excellence in Teaching 2016
    - o Given to a resident or fellow who demonstrates sound scientific knowledge, compassion towards patients, and dedication to learning and teaching
- Intern of the Month 2016
- Mayo Clinic School of Graduate Education Scholarship 2014
- UTMB Outstanding Tutor Award 2013
- Jeanne Fairweather, M.D. Academic Scholarship 2013
- NIH National Heart Lung and Blood Institute MS II research grant 2012
- UTMB School of Medicine Academic Scholarship 2012
- Edgar L. and Minnie Lee Lancaster Academic Scholarship 2012

RESEARCH ACTIVITIES

Journal Publications

- Rodman R, Mutasa S, Dupuis C, Spratt H, Underbrink M. Genetic dysregulation in recurrent respiratory papillomatosis. Laryngoscope. 2014 Aug;124(8):E320-5. doi: 10.1002/lary.24602. Epub 2014 Mar 11. **PMID: 24449512; PMCID: PMC4107152.**

- Mutasa S. Images in COPD: Bullous Emphysema with Mycetoma. Chronic Obstr Pulm Dis. 2017 Apr 4;4(2):168-171. doi: 10.15326/jcopdf.4.2.2017.0144. PMID: 28848927; PMCID: PMC5559117.

- Mutasa S, Chang PD, Ruzal-Shapiro C, Ayyala R. MABAL: a Novel Deep-Learning Architecture for Machine-Assisted Bone Age Labeling. J Digit Imaging. 2018 Aug;31(4):513-519. doi: 10.1007/s10278-**018-0053-3. PMID: 29404850; PMCID: PMC6113150.**

- Ha R, Chang P, Karcich J, Mutasa S, Fardanesh R, Wynn RT, Liu MZ, Jambawalikar S. Axillary Lymph Node Evaluation Utilizing Convolutional Neural Networks Using MRI Dataset. J Digit Imaging. 2018 Dec;31(6):851-856. doi: 10.1007/s10278-018-0086-7. PMID: 29696472; PMCID: PMC6261196.

- Ha R, Chang P, Karcich J, Mutasa S, Van Sant EP, Connolly E, Chin C, Taback B, Liu MZ, Jambawalikar S. Predicting Post Neoadjuvant Axillary Response Using a Novel Convolutional Neural Network Algorithm. Ann Surg Oncol. 2018 Oct;25(10):3037-3043. doi: 10.1245/s10434-018-6613-4. Epub 2018 Jul 5. PMID: 29978368.

- Ha R, Chang P, Karcich J, Mutasa S, Pascual Van Sant E, Liu MZ, Jambawalikar S. Convolutional Neural Network Based Breast Cancer Risk Stratification Using a Mammographic Dataset. Acad Radiol. 2019 Apr;26(4):544-549. doi: 10.1016/j.acra.2018.06.020. Epub 2018 Jul 31. PMID: 30072292; PMCID: **PMC8114104.**

- Ha R, Chang P, Mema E, Mutasa S, Karcich J, Wynn RT, Liu MZ, Jambawalikar S. Fully Automated Convolutional Neural Network Method for Quantification of Breast MRI Fibroglandular Tissue and Background Parenchymal Enhancement. J Digit Imaging. 2019 Feb;32(1):141-147. doi: 10.1007/s10278-**018-0114-7. PMID: 30076489; PMCID: PMC6382627.**

- Ha R, Chang P, Mutasa S, Karcich J, Goodman S, Blum E, Kalinsky K, Liu MZ, Jambawalikar S. Convolutional Neural Network Using a Breast MRI Tumor Dataset Can Predict Oncotype Dx Recurrence Score. J Magn Reson Imaging. 2019 Feb;49(2):518-524. doi: 10.1002/jmri.26244. Epub 2018 Aug 21. **PMID: 30129697; PMCID: PMC8139130.**

- Ha R, Chin C, Karcich J, Liu MZ, Chang P, Mutasa S, Pascual Van Sant E, Wynn RT, Connolly E, Jambawalikar S. Prior to Initiation of Chemotherapy, Can We Predict Breast Tumor Response? Deep Learning Convolutional Neural Networks Approach Using a Breast MRI Tumor Dataset. J Digit Imaging. 2019 Oct;32(5):693-701. doi: 10.1007/s10278-018-0144-1. PMID: 30361936; PMCID: PMC6737125.

- Shaish H, Mutasa S, Makkar J, Chang P, Schwartz L, Ahmed F. Prediction of Lymph Node Maximum Standardized Uptake Value in Patients With Cancer Using a 3D Convolutional Neural Network: A Proof-of-Concept Study. AJR Am J Roentgenol. 2019 Feb;212(2):238-244. doi: 10.2214/AJR.18.20094. Epub 2018 Dec 12. PMID: 30540209.

- Ha R, Mutasa S, Karcich J, Gupta N, Pascual Van Sant E, Nemer J, Sun M, Chang P, Liu MZ, Jambawalikar S. Predicting Breast Cancer Molecular Subtype with MRI Dataset Utilizing Convolutional Neural Network Algorithm. J Digit Imaging. 2019 Apr;32(2):276-282. doi: 10.1007/s10278-019-00179-2. PMID: **30706213; PMCID: PMC6456631.**

- Ha R, Mutasa S, Sant EPV, Karcich J, Chin C, Liu MZ, Jambawalikar S. Accuracy of Distinguishing Atypical Ductal Hyperplasia From Ductal Carcinoma In Situ With Convolutional Neural Network-Based Machine Learning Approach Using Mammographic Image Data. AJR Am J Roentgenol. 2019 Mar 12:1-6. doi: 10.2214/AJR.18.20250. Epub ahead of print. PMID: 30860901; PMCID: PMC8111785.

- Stember JN, Celik H, Krupinski E, Chang PD, Mutasa S, Wood BJ, Lignelli A, Moonis G, Schwartz LH, Jambawalikar S, Bagci U. Eye Tracking for Deep Learning Segmentation Using Convolutional Neural Networks. J Digit Imaging. 2019 Aug;32(4):597-604. doi: 10.1007/s10278-019-00220-4. PMID: 31044392.

- West E, Mutasa S, Zhu Z, Ha R. Global Trend in Artificial Intelligence-Based Publications in Radiology From 2000 to 2018. AJR Am J Roentgenol. 2019 Dec;213(6):1204-1206. doi: 10.2214/AJR.19.21346. Epub 2019 Aug 15. PMID: 31414886.

- Mutasa S, Chang P, Van Sant EP, Nemer J, Liu M, Karcich J, Patel G, Jambawalikar S, Ha R. Potential Role of Convolutional Neural Network Based Algorithm in Patient Selection for DCIS Observation Trials Using a Mammogram Dataset. Acad Radiol. 2020 Jun;27(6):774-779. doi: 10.1016/j.acra.2019.08.012. Epub 2019 Sep 14. PMID: 31526687; PMCID: PMC8142283.

- Ironside N, Chen CJ, Mutasa S, Sim JL, Marfatia S, Roh D, Ding D, Mayer SA, Lignelli A, Connolly ES. Fully Automated Segmentation Algorithm for Hematoma Volumetric Analysis in Spontaneous Intracerebral Hemorrhage. Stroke. 2019 Dec;50(12):3416-3423. doi: 10.1161/STROKEAHA.119.026561. Epub 2019 Nov 18. PMID: 31735138.

- Ironside N, Chen CJ, Mutasa S, Sim JL, Ding D, Marfatiah S, Roh D, Mukherjee S, Johnston KC, Southerland AM, Mayer SA, Lignelli A, Connolly ES. Fully Automated Segmentation Algorithm for Perihematomal Edema Volumetry After Spontaneous Intracerebral Hemorrhage. Stroke. 2020 Mar;51(3):815-823. doi: 10.1161/STROKEAHA.119.026764. Epub 2020 Feb 12. PMID: 32078476.

- Mutasa S, Sun S, Ha R. Understanding artificial intelligence based radiology studies: What is overfitting? Clin Imaging. 2020 Sep;65:96-99. doi: 10.1016/j.clinimag.2020.04.025. Epub 2020 Apr 23. PMID: **32387803; PMCID: PMC8150901.**

- Mutasa S, Varada S, Goel A, Wong TT, Rasiej MJ. Advanced Deep Learning Techniques Applied to Automated Femoral Neck Fracture Detection and Classification. J Digit Imaging. 2020 Oct;33(5):1209-1217. doi: 10.1007/s10278-020-00364-8. PMID: 32583277; PMCID: PMC7572965.

- Liu M, Vanguri R, Mutasa S, Ha R, Liu YC, Button T, Jambawalikar S. Channel width optimized neural networks for liver and vessel segmentation in liver iron quantification. Comput Biol Med. 2020 Jul;122:103798. doi: 10.1016/j.compbiomed.2020.103798. Epub 2020 May 16. PMID: 32658724.

- Mutasa S, Chang P, Nemer J, Van Sant EP, Sun M, McIlvride A, Siddique M, Ha R. Prospective Analysis Using a Novel CNN Algorithm to Distinguish Atypical Ductal Hyperplasia From Ductal Carcinoma in Situ in Breast. Clin Breast Cancer. 2020 Dec;20(6):e757-e760. doi: 10.1016/j.clbc.2020.06.001. Epub 2020 Jun 7. PMID: 32680766; PMCID: PMC8207833.

• Shaish H, Ahmed FS, Lederer D, D'Souza B, Armenta P, Salvatore M, Saqi A, Huang S, Jambawalikar S, Mutasa S. Deep Learning of Computed Tomography Virtual Wedge Resection for Prediction of Histologic Usual Interstitial Pneumonitis. Ann Am Thorac Soc. 2021 Jan;18(1):51-59. doi: 10.1513/AnnalsATS.202001-068OC. PMID: 32857594; PMCID: PMC8094440.

• Liu MZ, Mutasa S, Chang P, Siddique M, Jambawalikar S, Ha R. A novel CNN algorithm for pathological complete response prediction using an I-SPY TRIAL breast MRI database. Magn Reson Imaging. 2020 Nov;73:148-151. doi: 10.1016/j.mri.2020.08.021. Epub 2020 Sep 2. PMID: 32889091; PMCID: **PMC8111786.**

• Manley H, Mutasa S, Chang P, Desperito E, Crew K, Ha R. Dynamic Changes of Convolutional Neural Network-based Mammographic Breast Cancer Risk Score Among Women Undergoing Chemoprevention Treatment. Clin Breast Cancer. 2020 Nov 17:S1526-8209(20)30291-3. doi: 10.1016/j.clbc.2020.11.007. Epub ahead of print. PMID: 33277192; PMCID: PMC8126568.

• Chow DS, Glavis-Bloom J, Soun JE, Weinberg B, Loveless TB, Xie X, Mutasa S, Monuki E, Park JI, Bota D, Wu J, Thompson L, Boden-Albala B, Khan S, Amin AN, Chang PD. Development and external validation of a prognostic tool for COVID-19 critical disease. PLoS One. 2020 Dec 9;15(12):e0242953. doi: 10.1371/journal.pone.0242953. PMID: 33296357; PMCID: PMC7725393.

• Pan I, Baird GL, Mutasa S, Merck D, Ruzal-Shapiro C, Swenson DW, Ayyala RS. Rethinking Greulich and Pyle: A Deep Learning Approach to Pediatric Bone Age Assessment Using Pediatric Trauma Hand Radiographs. Radiol Artif Intell. 2020 Jul 29;2(4):e190198. doi: 10.1148/ryai.2020190198. PMID: **33937834; PMCID: PMC8082327.**

• Mutasa S, Yi PH. Deciphering musculoskeletal artificial intelligence for clinical applications: how do I get started? Skeletal Radiol. 2021 Jun 30. doi: 10.1007/s00256-021-03850-4. Epub ahead of print. PMID: 34191083.

• Mutasa S, Sun S, Ha R. Understanding artificial intelligence based radiology studies: CNN architecture. Clin Imaging. 2021 Jul 7;80:72-76. doi: 10.1016/j.clinimag.2021.06.033. Epub ahead of print. PMID: 34256218.

• Yi PH, Mutasa S, Fritz J. AI MSK Clinical applications: Orthopedic Implants. Skeletal Radiol. 2021 Aug 5. doi: 10.1007/s00256-021-03879-5. Online ahead of print. PMID: 34350476

• Mutasa S, Yi PH. Clinical Artificial Intelligence Applications: Musculoskeletal. Radiol Clin North Am. 2021 Nov;59(6):1013-1026. doi: 10.1016/j.rcl.2021.07.011. PMID: 34689870

• Sun S, Mutasa S, Liu MZ, Nemer J, Sun M, Siddique M, Desperito E, Jambawalikar S, Ha RS. Deep learning prediction of axillary lymph node status using ultrasound images. Comput Biol Med. 2022 Jan 24;143:105250. doi: 10.1016/j.compbiomed.2022.105250. Online ahead of print.PMID: 35114444

• McGuinness JE, Ro V, Mutasa S, Pan S, Hu J, Trivedi MS, Accordino MK, Kalinsky K, Hershman DL, Ha RS, Crew KD. Use of a convolutional neural network-based mammographic evaluation to predict breast cancer recurrence among women with hormone receptor-positive operable breast cancer. Breast Cancer Res Treat. 2022 Jul;194(1):35-47. doi: 10.1007/s10549-022-06614-3. Epub 2022 May 16.PMID: 35575954

• Michel A, Ro V, McGuinness JE, Mutasa S, Terry MB, Tehranifar P, May B, Ha R, Crew KD. Breast cancer risk prediction combining a convolutional neural network-based mammographic evaluation with clinical factors. Breast Cancer Res Treat. 2023 Jul;200(2):237-245. doi: 10.1007/s10549-023-06966-4. PMID: 37209183.

• Hoy MK, Desai V, Mutasa S, Hoy RC, Gorniak R, Belair JA. Deep Learning-Assisted Identification of Femoroacetabular Impingement (FAI) on Routine Pelvic Radiographs. J Imaging Inform Med. 2024 Feb;37(1):339-346. doi: 10.1007/s10278-023-00920-y. PMID: 38343231.

• Duong PT, Santos L, Hsu HY, Jambawalikar S, Mutasa S, Nguyen MK, Guariento A, Jaramillo D. Deep Learning-Assisted Diffusion Tensor Imaging for Evaluation of the Physis and Metaphysis. J Imaging Inform Med. 2024 Apr;37(2):756-765. doi: 10.1007/s10278-024-00993-3. PMID: 38321313.

• Bhave S, Rodriguez V, Poterucha T, Mutasa S, Aberle D, Capaccione KM, Chen Y, Dsouza B, Dumeer S, Goldstein J, Hodes A, Leb J, Lungren M, Miller M, Monoky D, Navot B, Wattamwar K, Wattamwar A, Clerkin K, Ouyang D, Ashley E, Topkara VK, Maurer M, Einstein AJ, Uriel N, Homma S, Schwartz A, Jaramillo D, Perotte AJ, Elias P. Deep learning to detect left ventricular structural abnormalities in chest X-rays. Eur Heart J. 2024 Jun 7;45(22):2002-2012. doi: 10.1093/eurheartj/ehad782. PMID: 38503537.

• McGuinness JE, Anderson GL, Mutasa S, Hershman DL, Terry MB, Tehranifar P, Lew DL, Yee M, Brown EA, Kairouz SS, Kuwajerwala N, Bevers TB, Doster JE, Zarwan C, Kruper L, Minasian LM, Ford L, Arun B, Neuhouser ML, Goodman GE, Brown PH, Ha R, Crew KD. Effects of vitamin D supplementation on a deep learning-based mammographic evaluation in SWOG S0812. JNCI Cancer Spectr. 2024 Jul 1;8(4):pkae042. doi: 10.1093/jncics/pkae042. PMID: 38814817.

• Venkatesh K, Mutasa S, Moore F, Sulam J, Yi PH. Gradient-Based Saliency Maps Are Not Trustworthy Visual Explanations of Automated AI Musculoskeletal Diagnoses. J Imaging Inform Med. 2024 Oct;37(5):2490-2499. doi: 10.1007/s10278-024-01136-4. PMID: 38710971.

Scientific Presentations (Oral)

- Invited Presenter at Educational Course Titled: “Interactive Artificial Intelligence for Non-Coders: Object Localization and Image Segmentation.” On demand At the Radiological Society of North America Virtual Meeting, on November 29th to December 5th, 2020

- Mutasa S, Igbinoba Z, Ubanwa A, Lala S, Wong T.: “Can AI Improve the Detection of Scaphoid Fractures that have Equivocal Findings on Radiograph?” Presented at the Radiological Society of North America meeting, Nov 29 – Dec 4, 2020 in Chicago, IL.

- Mutasa S, D’Souza B, Salvatore M, Lederer D, Shaish H.: “Virtual pulmonary wedge resection, A CNN based tool for classifying UIP vs non-UIP ILD on imaging.” Presented at the Society of Imaging Informatics Meeting in Austin, TX on June 24-26, 2020

- Mutasa S, Chang P, Ha R.: “Can CNN-based Algorithm Aid in Identification of Patients with BRCA Mutation using a Mammographic Dataset?” Presented at the Society of Imaging Informatics Meeting in Austin, TX on June 24-26, 2020

- Mutasa S, Liu M, Jambawaliker S, Jaramillo D.: “Physeal Diffusion Tensor Tractography ROI Automation with a 3D Convolutional Neural Network.” Presented at the Society for Pediatric Radiology meeting on May 13th, 2020.

- Invited Presenter at Educational Course Titled: “Hands on Artificial Intelligence for Non-Coders: Object Localization and Image Segmentation.” At the Radiological Society of North America Meeting, on December 1st and 3rd, 2019 in Chicago, IL.

- Mutasa S, Chang P, Nemer J, Liu M, Jambawalikar S, Ha R.: “A prospective analysis Distinguishing ADH from DCIS using a CNN.” Presented at the Radiological Society of North America meeting, December 1-6, 2019 in Chicago, IL.

- Mutasa S, H Manley, E Pascual van Sant, P Chang, MD; K Crew, MD; R S Ha, MD.: “The Effect of Chemoprevention Agents on A CNN based Breast Cancer Risk Model” Presented at the Radiological Society of North America meeting, December 1-6, 2019 in Chicago, IL.

- Mutasa S and Chang P.: “Synchronous Distributed Deep Learning for Medical Imaging.” Presented at the Conference on Machine Intelligence in Medical Imaging, September 22-23 in Austin, Texas.

- Mutasa S, Karcich J, Chang P, Pascual Van-Sant E, Connolly E, Chin C, Liu M, Taback B, Ha R.: “Predicting Post Neoadjuvant Axillary Response Using a CNN.” Presented at the American Roentgen Ray Society Meeting, May 5, 2019 in Honolulu, Hawaii.

- Mutasa S, Kierans-Siobhan A, Lu L, Hecht A.: “Can Deep Learning Differentiate HCC from Non-HCC on MRI?" Presented at the Society of Abdominal Radiology Meeting, March 17 - 22, 2019, in Orlando, Florida.

- Mutasa S, Chang P, Karcich J, Pascual Van Sant E, Sun M, Liu M, Ha R.: “Potential Role of Convolutional Neural Network based Algorithms in Patient Selection for DCIS Observation Trials.” Presented at the Radiological Society of North America meeting, November 25-30, 2018 in Chicago, IL.

- Mutasa S, Igbinoba Z, Rasiej M, Wong T.: “Utilize deep learning to obtain preoperative measurements from radiographs in patients with femoroacetabular impingement.” Presented at the Radiological Society of North America meeting, November 25-30, 2018 in Chicago, IL.

- Mutasa S, Chang P, Karcich J, Pascual Van Sant E, Sun M, Liu M, Ha R.: “Convolutional Neural Network-based Breast Cancer Risk Stratification Using a Mammographic Dataset.” Presented at the Radiological Society of North America meeting, November 25-30, 2018 in Chicago, IL.

- Mutasa S, Goel A, Varada S, Liu A, Wong T, Rasiej M.: “Advanced data augmentation techniques for medical deep learning applications.” Presented at the Machine Intelligence in Medical Imaging meeting, September 9-10, 2018 in San Francisco, CA.

- Mutasa S, Varada S, Goel A, Wong T, Rasiej M.: "Automated femoral neck fracture detection and classification utilizing advanced Deep Learning techniques." Presented at the International Skeletal Society Meeting September 24 – 28, 2018 in Berlin, DE.

- Mutasa, S., Genestine, WF., Zanazzi, G., Delgado, N., Iwamoto, F., Chang, P., Canoll, P., Lassman, A., Bruce, J., & Lignelli, A. (2018) "Predicting Glioblastoma Tumor Recurrence vs Pseudoprogression Utilizing Convolutional Neural Networks." Presented at the American Society of Neuroradiology Meeting June 2 – 7, 2018 in Vancouver, BC.

- Mutasa, S., Jambawalikar, S., & Ha, R. (2018) "Predicting breast cancer molecular subtype with an MRI data set." Presented at the Society of Imaging Informatics Meeting, May 31 – June 2, 2018, in National Harbor, MD.

- Venkatesh K, Mutasa S, Moore F, Sulam J, Yi PH. Can We Trust Saliency Maps to “Explain” Deep Learning Algorithms for Musculoskeletal Radiograph Abnormality Detection? Podium presentation, 2022 Annual Meeting of the Society for Imaging Informatics in Medicine, Orlando, FL.

- Pan I, Mutasa S, Merck D, Ruzal-Shapiro C, Ayyala R, Swenson D.: “Rethinking Greulich & Pyle: Deep Learning Models for Pediatric Bone Age Assessment.” Presented at the Radiological Society of North America meeting, December 1-6, 2019 in Chicago, IL.

- Manley H, Mutasa S, Ha R, Crew K.: “Effect of Chemoprevention on Convolutional Neural Network Based Breast Cancer Risk Model Using a Mammographic Dataset of Women with ADH, DCIS, or LCIS.” Presented at the San Antonio Breast Cancer Symposium, December 10-14, 2019 in San Antonio, TX.

- Elias P, Shreyas B, Mutasa S, Rodriguez V, Leb J, Poterucha T, and Perotte A.: “LVHNet: Detective Cardiac Structural Abnormalities with Chest X-Rays.” Presented to Medical Imaging Meets NeurIPS online only meeting, December 2020.

- Ironside N, Mutasa S, Jambawalikar S, Vanguri R, Lignelli A, Connolly E.: “A fully automated segmentation algorithm for the volumetric analysis of perihematomal edema in patients with spontaneous intracerebral hemorrhage.” Presented at the International Stroke Conference Meeting, February 6 – 8, 2019, at the Hawaii Convention Center in Honolulu, HI.

- Sax AJ, Xia E, Alfaqih M, Mutasa S, Zoga AC, Deely D, Belair J, Kamel S, Morrison WB. Determining the signal characteristics of disk herniations that are more likely to resorb. Presented at the Society of Skeletal Radiology meeting. Savannah Georgia, March 2021.

- Sax AJ, Xia E, Deely D, Karasick D, Alfaqih M, Mutasa S, Morrison WB. Fracture incidence before, during, and after COVID-19 Lockdown. Presented at the Society of Skeletal Radiology meeting. Savannah Georgia, March 2021.

• Stember JN, Chang PD, Stember DM, Liu M, Marfatia S, Vanguri R, Mutasa S, Filippi R, Meyers P, Lignelli A, Jambawalikar S.: “A deep learning approach to automated cerebral aneurysm detection on magnetic resonance angiograms with application to automatically predict the size of basilar tip aneurysms.” Presented at the American Society of Neuroradiology Meeting June 2 – 7, 2018 in Vancouver, BC.

• Loeb G, Sadri S, Grinshpoon A, Carroll J, Cooper C, Elvezio C, Mutasa S, Mandigo G, Lavine S, Weintraub J, Einstein A, Feiner S, Meyers P. "Augmented Reality Guidance for Cerebral Angiography." Presented at the Society of Interventional Radiology Meeting, March 18, 2018, in Los Angeles, CA.

• Jambawalikar, S., Vanguri, R., Mutasa, S., Liu, M., & Shaish, H. (2018) "Motion tolerant super resolution reconstruction from multi-stack MRI data.” Presented at the International Society of MRI in Medicine, June 16 – 21, 2018 in Paris, France.

• Karcich, J., Jambawalikar, S., Chang, P.D., Chin, C., Jadeja, P., Liu, M., Wynn, R., Mutasa, S., Pascual Van Sant, E., Connolly, E., & Ha, R. (2017) "Deep learning through convolutional neural networks using a breast MRI tumor dataset can predict neoadjuvant chemotherapy response." Radiological Society of North America, November 2017, Chicago, IL Presentation

• Rodman, R., Mutasa, S., Dupuis, C., Spratt, H., & Underbrink, M. (2014) ” Gene Expression Profiles in Recurrent Respiratory Papillomatosis.” Triological Society Meeting at COSM, April 2013 Presentation

Poster Presentations Available on Request

SKILLS

- Fluent in programming with Python, C++, and Javascript
- Extensive experience with Tensorflow, Docker, Node.js, React and other computing libraries

OTHER

- Professional Affiliations: SSR, RSNA, AMA, AOA, ABR, ACR,
- Hobbies: College Football Fan, Programming, Weightlifting, Skiing, Fine Dining, Golfing