Theodorus Dapamede, MD, PhD

Postdoctoral Fellow

HITI Lab, Department of Radiology & Imaging Sciences, Emory University

theo.dapamede@emory.edu • www.dapamede.com • ORCID 0000-0002-6264-2282

101 Woodruff Circle, Room 1225, Atlanta, GA 30322, USA

Curriculum Vitae • Revised: November 12, 2026

1. **Academic and Professional Appointments:**

    1. Intern 2020–2023
    MARS Bioimaging Ltd., Christchurch, New Zealand
    2. Postdoctoral Fellow 2023–present
    HITI Lab, Department of Radiology & Imaging Sciences
    Emory University, USA

2. **Licensures:**

    1. Medical Registration (STR), Medical Doctor (Dokter)
    Indonesian Health Council (Konsil Kesehatan Indonesia), Indonesia
    Registration no. TF00002237342334

3. **Education:**

    1. S.Ked (Sarjana Kedokteran), Bachelor of Medicine and Bachelor of Surgery 2009–2013
    Universitas Brawijaya, Indonesia
    Thesis title: *Penelusuran Jalur Saraf Nyeri Dada pada Jantung Kelinci yang Mengalami Iskemia Miokardium dengan Metode Dual-Retrograde Neurotracing* (Tracing Chest Pain Nerve Pathways in Rabbit Hearts with Myocardial Ischemia Using Dual-Retrograde Neurotracing)
    Supervisors: Bambang Soemantri, MD, MKes; Masruroh Rahayu, MD, MKes, PhD
    Examiner: Cholid Tri Tjahjono, MD, MKes, Sp.JP(K), PhD
    2. dr. (Dokter), Doctor of Medicine (MD) 2013–2015
    Universitas Brawijaya, Indonesia
    3. MHTI, Master of Health Technology Innovation 2017–2018
    University of Sydney, Australia
    Thesis title: Development of an Integrated Liver Phantom and Spatial Projected Augmented Reality Surgical Planning System
    Supervisor: Philip Boughton, PhD
    4. PhD, Doctor of Philosophy 2019–2023
    University of Otago, New Zealand
    Thesis title: Application of constrained neural networks on MARS spectral photon-counting CT
    Supervisors: Mahdieh Moghiseh, PhD; James Atlas, PhD; Phil Butler, PhD; Anthony Butler, MBChB, PhD (Chair)

4. **Postgraduate Training:**

1. PGY1-Intern 2015–2016
   Dr. R. Soedjono Selong Hospital
   West Nusa Tenggara, Indonesia
   Program Director: Syamsul Rodja, MD
2. Postdoctoral Fellow 2023–present
   HITILab, Department of Radiology & Imaging Sciences
   Emory University, USA
   Supervisors: Hari Trivedi, MD; Judy Gichoya, MD, MS

5. **Honors and Awards:**

1. Australia Awards Scholarship (AAS) 2017–2018
   Department of Foreign Affairs and Trade
   Australian Government
2. Postgraduate High Honour Roll 2019
   University of Sydney, Australia
   Highest mark in HTIN6032, Health Technology Innovation Thesis (2018)
3. University of Otago Doctoral Scholarship 2019–2023
   University of Otago, New Zealand
   Full stipend and tuition fee waiver
4. Three Minute Thesis (3MT) Runner Up 2022
   University of Otago Christchurch, New Zealand
5. Helen and Paul Chang Foundation New Investigator Travel Award 2024
   Society of Imaging Informatics in Medicine (SIIM)
6. Best Research Paper Award 2025
   Society of Imaging Informatics in Medicine (SIIM)
7. Travel Award in Acknowledgement of Excellence in Scientific Merit 2025
   NHLBI-NIBIB, Emerging Technologies in CAD Imaging: Vision 2040
8. High Impact Research Award 2026
   Office of Postdoctoral Education, Emory University School of Medicine
   In recognition of outstanding scientific contributions and publishing in premier journals with an Impact Factor of 45+ (2025–2026)

6. **Teaching Activities and Pedagogy Training:**

(a) Teaching Activities:

1. Teaching Assistant 2017–2018
   Pedacomp Australia, Sydney, NSW, Australia
   Assisted in teaching a robotics and programming course for high school teachers
2. Faculty, Emory Health AI Bias Summer School 2024
   Atlanta, GA, Aug 19–22, 2024
   Lectures: *Emory CXR: Data Preprocessing* (Aug 19); *EMBED: Data Preprocessing* (Aug 20)

3. Lecturer, Emory Health AI Bias Summer School 2026
   Atlanta, GA
   Lectures: *RadHarmony* (Jun 27); *Hands On: Readmission Model Evaluation on OMOP Data* (Jun 28)

(b) Pedagogy Training:

1. Scientists Teaching Science Certificate 2023
   Emory Continuing Education, Emory University
   Verifiable digital credential

7. **Published or Accepted Research Articles:**

1. **Dapamede T**, Paundralingga OTK, Rahayu M, Soemantri B. Neural pain pathway tracing of rabbit ischemic heart by double-retrograde neurotracing. *MNJ (Malang Neurology Journal)*. 2015;1(1):12–16.
   https://doi.org/10.21776/ub.mnj.2015.001.01.3
2. Lowe C, Ortega-Gil A, Moghiseh M, Anderson N, Munoz-Barrutia A, Vaquero J, Raja A, Matanaghi A, Chernoglazov A, **Dapamede T**, . . . , Butler A. Molecular imaging of pulmonary tuberculosis in an ex-vivo mouse model using spectral photon-counting computed tomography and micro-CT. *IEEE Access*. 2021;9:67201–67208.
   https://doi.org/10.1109/ACCESS.2021.3076432
3. Healy J, Searle E, Panta RK, . . . , **Dapamede T**, . . . , Younger WR. Ex-vivo atherosclerotic plaque characterization using spectral photon-counting CT: Comparing material quantification to histology. *Atherosclerosis*. 2023;378:117160.
   https://doi.org/10.1016/j.atherosclerosis.2023.06.007
4. Khosravi B, Li F, **Dapamede T**, Rouzrokh P, Gamble CU, Trivedi HM, Wyles CC, Sellergren AB, Purkayastha S, Erickson BJ, Gichoya JW. Synthetically enhanced: unveiling synthetic data's potential in medical imaging research. *EBioMedicine*. 2024;104:105174.
   https://doi.org/10.1016/j.ebiom.2024.105174
5. **Dapamede T**, Li F, Khosravi B, Purkayastha S, Trivedi H, Gichoya J. DICOM LUT is a Key Step in Medical Image Preprocessing Towards AI Generalizability. *J Imaging Inform Med*. 2025;38(5):3040–3048.
   https://doi.org/10.1007/s10278-025-01418-5
6. Chavoshi M, Trivedi H, Newsome J, Mansuri A, Li F, **Dapamede T**, Khosravi B, Gichoya J. Comparative Evaluation of Deep Learning and Foundation Model Embeddings for Osteoarthritis Feature Classification in Knee Radiographs. *J Imaging Inform Med*. 2026;39(3):2136–2149.
   https://doi.org/10.1007/s10278-025-01636-x
7. Chavoshi M, Trivedi H, Mansuri A, Newsome J, Sanyika CR, Isaac RS, Li F, **Dapamede T**, Gichoya JW. Impact of Label Noise from Large Language Model–generated Annotations on Evaluation of Diagnostic Model Performance. *Radiol Artif Intell*. 2026;8(2):e250477.
   https://doi.org/10.1148/ryai.250477
8. Chavoshi M, Mansuri A, Bala W, Brown-Mulry B, **Dapamede T**, Isaac R, Khosravi B, Li H, Li F, Moon JT, Robichaux C, Cohen-Addad DIG, Salastekar NV, Gichoya JW, Trivedi H. Real-world performance evaluation of a commercial deep learning model for intracranial hemorrhage detection. *npj Digit Med*. 2026;9:66.
   https://doi.org/10.1038/s41746-025-02244-3

9. Khosravi B, **Dapamede T**, Li F, Chisango Z, Bikmal A, Garg S, Owosela B, Khosravi A, Chavoshi M, Trivedi HM, Wyles CC, Purkayastha S, Erickson BJ, Gichoya JW. Role of Model Size and Prompting Strategies in Extracting Labels from Free-Text Radiology Reports with Open-Source Large Language Models. *J Imaging Inform Med*. 2026;39(1):995–1004. https://doi.org/10.1007/s10278-025-01505-7
10. Price BJ, Gichoya J, Chavoshi M, Adleberg J, Thomas K, Zaiman Z, Mansuri A, Brown-Mulry B, Okechukwu C, **Dapamede T**, Li F, Isaac RS, Goltzer O, Gottschalk M, Trivedi H. The Emory Knee Radiograph (MRKR) Dataset. *J Imaging Inform Med*. 2026. Epub ahead of print. https://doi.org/10.1007/s10278-026-01902-6
11. Brown-Mulry B, Isaac RS, Lee SH, Seth A, Min K, **Dapamede T**, Li F, Mansuri A, Woo M, Fauria-Robinson CA, Paryani B, Gichoya JW, Trivedi H. Subgroup Performance of a Commercial Digital Breast Tomosynthesis Model for Breast Cancer Detection. *Nat Commun*. 2026;17:4249. https://doi.org/10.1038/s41467-026-70637-3
12. **Dapamede T**, Urooj A, Joshi V, Gershon G, Li F, Chavoshi M, Brown-Mulry B, Isaac RS, Mansuri A, Robichaux C, Ayoub C, Arsanjani R, Sperling L, Gichoya J, van Assen M, O'Neill WC, Banerjee I, Trivedi H. Artificial intelligence-based quantification of breast arterial calcifications to predict cardiovascular morbidity and mortality. *Eur Heart J*. 2026;47(18):2206–2220. https://doi.org/10.1093/eurheartj/ehag128
13. Chavoshi M, Trivedi H, Newsome J, Mansuri A, Aitcheson K, Li F, **Dapamede T**, Gichoya JW. An Intensity-Based Cropping Approach for Fast, Interpretable, and Robust Localization of the Knee Joint in Radiographs. *J Imaging Inform Med*. 2026. Epub ahead of print. https://doi.org/10.1007/s10278-026-01961-9
14. Ndirangu B, Gichoya J, **Dapamede T**, Li F, Chavoshi M, Brown-Mulry B, Isaac R, Mansuri A, Sanyika C, Mehta P, O'Neill WC, Trivedi H. Review of breast arterial calcifications for cardiovascular disease risk prediction. *npj Cardiovasc Health*. 2026;3:33. https://doi.org/10.1038/s44325-026-00135-4
15. **Dapamede T**, Aitcheson K, Lagari PL, Farooq A, Louis P, Robichaux C, Li F, Khosravi B, Chavoshi M, Mansuri A, Isaac RS, Brown-Mulry B, Trivedi H, Galanter W, Pyrros A, Gichoya J. A deep learning model for opportunistic screening of chronic kidney disease using chest radiographs: a multicentre validation study in the USA. *eClinicalMedicine*. 2026;98:104078. https://doi.org/10.1016/j.eclinm.2026.104078
16. Mansuri A, Chavoshi M, **Dapamede T**, Bala W, Brown-Mulry B, Isaac RS, Khosravi B, Li H, Li F, Moon JT, Robichaux C, Cohen-Addad DIG, Salastekar NV, Newsome J, Gichoya JW, Trivedi H. Multi-site real-world performance of commercial AI for pulmonary and incidental pulmonary embolism detection. *npj Digit Med*. 2026. Epub ahead of print. https://doi.org/10.1038/s41746-026-03418-3

8. **Book Chapters:**

1. Smith A, Atlas J, . . . , **Dapamede T**, . . . , Wijesooriya M. Correcting Charge Sharing Distortions in Photon Counting Detectors Utilizing a Spatial-Temporal CNN. In: Iniewski K, Cai L, eds. *Deep Learning for Advanced X-ray Detection and Imaging Applications*. Springer, Cham; 2024:117–142. https://doi.org/10.1007/978-3-031-75653-5_7

9. **Abstract Presentations:**

    1. **Dapamede T**, Boughton P. Augmented Reality Projected onto a Resectable Anatomic Model. Biomedical Engineering Innovations Symposium, Sydney, Australia, 2018 (Oral)
    2. **Dapamede T**, Atlas J, Moghiseh M, Butler P, Butler A. Image Denoising Using Fully Convolutional DenseNets for Spectral CT Imaging. 1st New Zealand Artificial Intelligence Research Workshop, Hobbiton, New Zealand, 2018 (Poster)
    3. **Dapamede T**, Atlas J, Moghiseh M, Chapagain K, de Ruiter N, Butler P, Butler A, MARS Collaboration. Application of a self-supervised deep learning framework for image recovery and denoising in spectral photon-counting CT. 2nd New Zealand Artificial Intelligence Research Workshop, Christchurch, New Zealand, 2022 (Poster)
    4. Li F, Gichoya J, **Dapamede T**, Westney G, Flenaugh E, Foreman M. Impact of Social Determinants of Health on Accelerated Lung Function Decline. ATS 2024 International Conference, San Diego, CA, May 17–22, 2024 (Oral)
    5. **Dapamede T**[†], Li F, Khosravi B, Purkayastha S, Trivedi H, Gichoya J. DICOM LUT is a Key Step in Medical Image Preprocessing Towards AI Generalizability. SIIM 2024 Annual Meeting, National Harbor, MD, Jun 27–29, 2024 (Oral)
       [†]Helen and Paul Chang Foundation New Investigator Travel Award
    6. Li F, **Dapamede T**, Khosravi B, Trivedi H, Gichoya J. Exploring Model Localizability and the Impact of Pneumothorax Volume on AI Classification Models. SIIM 2024 Annual Meeting, National Harbor, MD, Jun 27–29, 2024 (Oral)
    7. Khosravi B, **Dapamede T**, Li F, Chisango Z, Bikmal A, Garg S, Owosela B, Purkayastha S, Trivedi H, Erickson B, Gichoya J. Enhancing Chest Radiograph Analysis with Large Language Models for Granular Pathology Detection. SIIM 2024 Annual Meeting, National Harbor, MD, Jun 27–29, 2024 (Oral)
    8. Brown-Mulry B, Trivedi H, Gichoya J, Woo M, Li F, **Dapamede T**, Tsui C, Kolukonu H. Scaling Medical Image De-Identification with Cloud Computing. SIIM 2024 Annual Meeting, National Harbor, MD, Jun 27–29, 2024 (Oral)
    9. Joshi V, Garg A, **Dapamede T**, Khosravi B, Li F, Seyyed-Kalantari L, Thomas K, Price B, Banerjee I, Trivedi H, Gichoya J. Exploring Discrepancies in Age Prediction Across Modalities: An Analysis of Predicted Age from Chest X-Ray, Knee Radiographs, and Breast Mammograms. SIIM 2024 Annual Meeting, National Harbor, MD, Jun 27–29, 2024 (Poster)
    10. **Dapamede T**, Khosravi B, Robichaux C, Mansuri A, Chavoshi M, Belov A, Udongwo A, Igwe C, Li F, Brown-Mulry B, Li H, Moon JT, Gichoya J, Trivedi H. Beyond FDA Clearance: Automated Post Deployment Monitoring and Validation of Commercial AI Models using Local Large Language Models (LLMs). CMIMI 2024: Conference on Machine Intelligence in Medical Imaging, Boston, MA, Oct 21–22, 2024 (Oral)
    11. **Dapamede T**, Khosravi B, Robichaux C, Mansuri A, Chavoshi M, Belov A, Udongwo A, Igwe C, Li F, Brown-Mulry B, Li H, Moon JT, Gichoya J, Trivedi H. Evaluation of Llama2 and Llama3 for Automated Extraction of Ground Truth from Radiology Reports for Post-Deployment Monitoring of Pulmonary Embolism and Intracranial Hemorrhage Detection AI Models. CMIMI 2024: Conference on Machine Intelligence in Medical Imaging, Boston, MA, Oct 21–22, 2024 (Oral)

12. **Dapamede T**, Urooj A, Gershon G, Gichoya J, van Assen M, O'Neill WC, Banerjee I, Trivedi H. Prognostic Value of DL-Based Quantification of Breast Artery Calcification from Routine Mammography for Cardiovascular Disease and Mortality Risk Prediction. RSNA 2024 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2024 (Oral, W7-SSBR09-3)
13. **Dapamede T**, Li F, Khosravi B, Borstelmann M, Bagci U, Trivedi H, Pyrros A, Gichoya J. Utilizing Chest Radiographs (CXRs) For Kidney Failure Prognostication and Early Risk Stratification with Prospective and External Validation. RSNA 2024 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2024 (Oral, M1-SSGU03-4)
14. **Dapamede T**, Khosravi B, Chavoshi M, Li F, Trivedi H, Gichoya J. Deep Learning Mammography-Based Age Prediction: Insights into Model Performance and Demographic Disparities. RSNA 2024 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2024 (Poster, T5A-SPBR-9)
15. **Dapamede T**, Khosravi B, Chavoshi M, Li F, Trivedi H, Gichoya J. BMI Prediction from Mammography Images and Its Implications for Breast Cancer Risk. RSNA 2024 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2024 (Poster, T5A-SPBR-8)
16. **Dapamede T**, Li F, Khosravi B, Borstelmann M, Bagci U, Trivedi H, Pyrros A, Gichoya J. AI-Enhanced Prediction of Lung Cancer Risk from Imaging Biomarkers in Chest Radiographs: An External Validation Study. RSNA 2024 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2024 (Poster, T5A-SPCH-3)
17. **Dapamede T**, Li F, Belhadj S, Kooi T, Mansuri A, Gichoya JW, Seth A, Jeong HE, Brown-Mulry B, Trivedi H. Performance of a Commercial Digital Breast Tomosynthesis Cancer Detection Model in a Large, Racially Diverse US Screening Population. RSNA 2024 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2024 (Oral, M1-SSBR04-5)
18. Khosravi B, **Dapamede T**, Li F, Bikmal A, Garg S, Owosela B, Khosravi A, Chavoshi M, Purkayastha S, Trivedi H, Erickson BJ, Gichoya JW. HIPAA-compliant open-source large language models (LLMs) for radiology report annotation: a comprehensive analysis of model size, prompting strategies, and pathology complexity. RSNA 2024 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2024 (Poster, T5A-SPIN-6)
19. Khosravi B, Rouzrokh P, **Dapamede T**, Vahdati S, Li F, Trivedi H, Purkayastha S, Wyles C, Celi L, Erickson BJ, Gichoya JW. Multi-resolution chest x-ray diffusion model with radiology report conditioning: an open-source model-as-a-dataset. RSNA 2024 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2024 (Poster, T5A-SPIN-2)
20. Khosravi B, **Dapamede T**, Li F, Khosravi A, Chavoshi M, Rouzrokh P, Purkayastha S, Trivedi H, Erickson BJ, Gichoya JW. What LLM should I use? Navigating the landscape of large language models in radiology. RSNA 2024 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2024 (Exhibit, INEE-38)
21. Khosravi A, Gichoya JW, Chavoshi M, Khosravi B, Li F, Trivedi H, **Dapamede T**. Unlocking Hidden Insights: Leveraging AI for Opportunistic Screening in Radiology. RSNA 2024 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2024 (Exhibit, INEE-16)
22. Gichoya JW, **Dapamede T**. Informatics case of the day – which preprocessing should you use to train AI models? RSNA 2024 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2024 (Exhibit)
23. **Dapamede T**, Urooj A, Gershon G, van Assen M, Ayoub C, Sperling L, Arsanjani R, Gichoya J, O'Neill WC, Banerjee I, Trivedi H. Risk Stratification of Adverse CV Events and Mortality in

Women Using AI-Based Quantification of Vascular Calcifications. ACC 2025 Annual Meeting, Chicago, IL, Mar 29–31, 2025 (Oral)

24. **Dapamede T**†, Li F, Khosravi B, Urooj A, Chavoshi M, Robichaux C, Mansuri A, Brown-Mulry B, Isaac RS, Ayoub C, O'Neill WC, Banerjee I, Gichoya J, Trivedi H. Chest Radiography and Mammography-Derived Imaging Biomarkers Enhance Cardiovascular Risk Prediction Beyond ASCVD Risk Score. SIIM 2025 Annual Meeting, Portland, OR, May 21–23, 2025 (Oral)
†Best Research Paper Award
25. Khosravi B†, **Dapamede T**, Li F, Rouzrokh P, Mansuri A, Mahmoudi E, Isaac RS, Khosravi A, Chavoshi M, Trivedi H, Newsome J, Erickson B, Gichoya J. EdgeDeID: Advancing De-identification with Small LMs (SLMs) and Synthetic Data on Edge Devices. SIIM 2025 Annual Meeting, Portland, OR, May 21–23, 2025 (Oral)
†Best Research Paper Honorable Mention Award
26. Li F†, **Dapamede T**, Chavoshi M, Khosravi B, Newsome J, Mansuri A, Isaac RS, Trivedi H, Gichoya J. On the Feasibility of Chest X-ray Reconstruction from Foundation Model Vector Embeddings. SIIM 2025 Annual Meeting, Portland, OR, May 21–23, 2025 (Oral)
†Helen and Paul Chang Foundation New Investigator Travel Award
27. Li F, **Dapamede T**, Chavoshi M, Mansuri A, Newsome J, Khosravi B, Isaac RS, Trivedi H, Gichoya J. Systematic Detection and Correction of DICOM Label Discrepancies in Large-Scale Chest X-ray Datasets. SIIM 2025 Annual Meeting, Portland, OR, May 21–23, 2025 (Oral)
28. Chavoshi M†, Li F, **Dapamede T**, Khosravi B, Price B, Newsome J, Mansuri A, Isaac RS, Trivedi H, Gichoya JW. Leveraging Pre-trained Medical Image Embeddings for Knee Pain Score Prediction: A Comparative Analysis of Vision Transformer and CNN Approaches. SIIM 2025 Annual Meeting, Portland, OR, May 21–23, 2025 (Oral)
†Helen and Paul Chang Foundation New Investigator Travel Award
29. Chavoshi M, Li F, **Dapamede T**, Khosravi B, Price B, Newsome J, Mansuri A, Isaac RS, Trivedi H, Gichoya JW. Comparing General Vision Transformer Embeddings versus Task-Specific Deep Learning Models for Knee Osteoarthritis Grading. SIIM 2025 Annual Meeting, Portland, OR, May 21–23, 2025 (Oral)
30. Mansuri A, **Dapamede T**, Cohen-Addad D, Salastekar NV, Li H, Moon JT, Bala W, Khosravi B, Robichaux C, Li F, Isaac RS, Brown-Mulry B, Chavoshi M, Gichoya J, Trivedi H. Report Interpretation Times for Radiology Residents and Attendings Before and After Deployment of a Triaging Model for Pulmonary Embolism and Intracranial Hemorrhage Detection in a Large Academic Center. SIIM 2025 Annual Meeting, Portland, OR, May 21–23, 2025 (Oral)
31. Mansuri A†, **Dapamede T**, Cohen-Addad D, Salastekar NV, Li H, Moon JT, Bala W, Khosravi B, Robichaux C, Li F, Isaac RS, Brown-Mulry B, Chavoshi M, Gichoya J, Trivedi H. LLM Showdown: Benchmarking Performance, Cost, and Speed of Granular Ground Truth Extraction in Radiology Reports for Post-Deployment Monitoring of AI Models. SIIM 2025 Annual Meeting, Portland, OR, May 21–23, 2025 (Poster)
†1st Place, Scientific Posters and Demonstrations Award
32. Isaac RS, Brown-Mulry B, Mansuri A, **Dapamede T**, Robichaux C, Li F, Chavoshi M, Gichoya J, Trivedi H. Emory Breast Imaging Dataset (EMBED) v2 – A racially diverse, multi-modal dataset of 1.2M breast imaging exams and associated histopathology. SIIM 2025 Annual Meeting, Portland, OR, May 21–23, 2025 (Oral)

33. **Dapamede T**, Joshi V, Urooj A, Li F, Chavoshi M, Khosravi B, Brown-Mulry B, Mansuri A, Isaac RS, Robichaux C, Ayoub C, Arsanjani R, Gichoya J, O'Neill WC, Banerjee I, Trivedi H. Dynamic Cardiovascular Risk Assessment: Leveraging AI to Track Breast Arterial Calcification on Serial Mammograms. 3rd AIM-AHEAD Annual Meeting, Dallas, TX, Jul 8–9, 2025 (Poster)
34. **Dapamede T**, Urooj A, Joshi V, Gershon G, Li F, Chavoshi M, Brown-Mulry B, Isaac RS, Mansuri A, Robichaux C, Ayoub C, Arsanjani R, Sperling L, Gichoya JW, van Assen M, O'Neill WC, Banerjee I, Trivedi H. Beyond the PREVENT Score: Improving Cardiovascular Risk Prediction in Women with AI-Powered Analysis of Breast Arterial Calcification. AI and Cardiovascular Disease Mini-Symposium, Emory University, Atlanta, GA, Sep 12, 2025 (Poster)
35. **Dapamede T**†, Urooj A, Joshi V, Gershon G, Li F, Chavoshi M, Brown-Mulry B, Isaac RS, Mansuri A, Robichaux C, Ayoub C, Arsanjani R, Sperling L, Gichoya JW, van Assen M, O'Neill WC, Banerjee I, Trivedi H. Beyond the PREVENT Score: Improving Cardiovascular Outcomes in Women with AI-Powered Analysis of Breast Arterial Calcification. NHLBI-NIBIB Emerging Technologies in CAD Imaging: Vision 2040, NIH, Bethesda, MD, Sep 17–18, 2025 (Poster)
    †NHLBI-NIBIB Travel Award in Acknowledgement of Excellence in Scientific Merit
36. Li F, Dere A, Ajibade A, **Dapamede T**, Chavoshi M, Newsome J, Trivedi H, Gichoya J. Discordance Analysis Between Automated Cardiothoracic Ratio Measurements and NLP-Extracted Cardiomegaly Labels. SIIM-CAIMI 2025 Annual Meeting, Irvine, CA, Oct 20–21, 2025 (Oral)
37. Chavoshi M, Mansuri A, Gichoya J, **Dapamede T**, Cohen-Addad D, Salastekar NV, Li H, Bala W, Moon JT, Khosravi B, Li F, Robichaux C, Brown-Mulry B, Isaac RS, Trivedi H. Real-World Performance Evaluation of a Commercial Deep Learning Model for Intracranial Hemorrhage Detection: Anatomical and Demographic Analysis. SIIM-CAIMI 2025 Annual Meeting, Irvine, CA, Oct 20–21, 2025 (Oral)
38. Chavoshi M, Li F, Trivedi H, **Dapamede T**, Mansuri A, Isaac RS, Khosravi B, Newsome J, Gichoya J. Demographic Bias in Chest X-Ray Foundation Models: Disparities in Underdiagnosis and Overdiagnosis from Embedding-Based Classification. SIIM-CAIMI 2025 Annual Meeting, Irvine, CA, Oct 20–21, 2025 (Oral)
39. Mansuri A, Chavoshi M, Cohen-Addad D, **Dapamede T**, Salastekar NV, Li H, Moon JT, Bala W, Khosravi B, Robichaux C, Li F, Isaac RS, Brown-Mulry B, Newsome J, Trivedi H. Time Saved or Time Spent? Examining Radiologists' Interpretation Speeds Pre- and Post-AI Triage Implementation. RSNA 2025 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2025 (Poster, R5B-SPIN-1)
40. Li F, Trivedi H, Khosravi B, **Dapamede T**, Chavoshi M, Dere A, Isaac RS, Mansuri A, Newsome J, Purkayastha S, Gichoya J. Vision-Language Foundation Models for Radiology: Comparative Analysis of Classification and Segmentation Performance. RSNA 2025 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2025 (Poster, W5B-SPIN-3)
41. Li F, Dere A, Ajibade A, **Dapamede T**, Chavoshi M, Newsome J, Trivedi H, Gichoya J. Racial Disparities in Cardiothoracic Ratio and Cardiomegaly Diagnosis Concordance: Implications for AI Fairness. RSNA 2025 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2025 (Poster, W2-SPCA-4)
42. Tariq A, **Dapamede T**, Trivedi H, Gichoya J, Stib MT, Banerjee I. Opportunistic Screening for Adverse Cardiovascular Events Using Routine Clinical Chest Computed Tomography – A Study on Performance and Generalization. RSNA 2025 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2025 (Oral, R1-SSCA09-5)

43. **Dapamede T**, Urooj A, Joshi V, Gershon G, Li F, Chavoshi M, Brown-Mulry B, Isaac RS, Mansuri A, Robichaux C, Ayoub C, Arsanjani R, Sperling L, Gichoya JW, van Assen M, O'Neill WC, Banerjee I, Trivedi H. AI-based Quantification of Breast Arterial Calcification on Mammography Adds Incremental Prognostic Value to PREVENT Scores for Cardiovascular Risk Stratification. RSNA 2025 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2025 (Oral, M2-STCE1-3)
44. **Dapamede T**, Joshi V, Urooj A, Robichaux C, Li F, Chavoshi M, Khosravi B, Mansuri A, Isaac RS, Brown-Mulry B, Newsome JM, Gichoya JW, O'Neill WC, Banerjee I, Trivedi H. Automatic Quantification of Breast Arterial Calcification (BAC) on Screening Mammography is an Independent Predictor of Peripheral Arterial Disease (PAD) in Women. RSNA 2025 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2025 (Oral, M7-SSBR04-5)
45. **Dapamede T**, Chavoshi M, Mansuri A, Robichaux C, Li F, Khosravi B, Isaac RS, Brown-Mulry B, Newsome JM, O'Neill WC, Banerjee I, Trivedi H, Gichoya JW. Dual Organ Imaging Biomarkers: Hepatic Steatosis and Breast Arterial Calcification Independently Predict Incident Heart Failure and Enhance Risk Stratification. RSNA 2025 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2025 (Poster, R2-SPCA-5)
46. Chavoshi M, Mansuri A, Trivedi H, **Dapamede T**, Li F, Isaac RS, Newsome J, Gichoya J. Impact of Large Language Model (LLM) Labelling Errors on Performance and Evaluation Integrity of Imaging AI Models. RSNA 2025 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2025 (Oral, W3-SSIN06-6)
47. Chavoshi M, **Dapamede T**, Trivedi H, Aitcheson K, Li F, Mansuri A, Isaac RS, Newsome J, Gichoya J. An Anatomical Landmark-Based Intensity Profile Analysis for Knee Radiograph Cropping. RSNA 2025 Annual Meeting, Chicago, IL, Nov 30–Dec 4, 2025 (Poster, M5B-SPIN-7)
48. **Dapamede T**, Li F, Chavoshi M, Dere AA, Aitcheson K, Mansuri A, Robichaux C, Khosravi B, Isaac RS, Brown-Mulry B, Newsome J, Trivedi H, Gichoya J. Deep learning on chest X-rays for dual-purpose screening and prognosis of congestive heart failure. Association of University Radiologists (AUR) 2026 Annual Meeting, Atlanta, GA, Mar 17–20, 2026 (Oral)
49. Garomsa BA, **Dapamede T**, Loyani L, Li F, Newsome J, Trivedi H, Williamson D, Gichoya JW. Chest Radiographs Predict Echocardiographic Features and Future Cardiac Risk Using a Foundation Model. SIIM 2026 Annual Meeting, Pittsburgh, PA, Jun 10–12, 2026 (Poster)
50. Chavoshi M, Khosravi B, Li F, **Dapamede T**, Jeon YS, Mansuri A, Newsome J, Trivedi H, Gichoya JW. Sensitivity of Medical Foundation Model Embeddings to Common Acquisition-Related Image Perturbations. SIIM 2026 Annual Meeting, Pittsburgh, PA, Jun 10–12, 2026 (Poster)
51. Li F, Jeon YS, **Dapamede T**, Chavoshi M, Khosravi B, Brown-Mulry B, Mansuri A, Isaac RS, Sanyika C, Malik J, Newsome J, Trivedi H, Gichoya J. Mitigating Interpolation-Induced Variability in Medical Foundation Models with Anti-Aliasing Preprocessing. SIIM 2026 Annual Meeting, Pittsburgh, PA, Jun 10–12, 2026 (Oral)
52. **Dapamede T**, Li F, Chavoshi M, Khosravi B, Brown-Mulry B, Jeon YS, Mansuri A, Isaac RS, Sanyika C, Malik J, Newsome J, Gichoya JW, Trivedi H. DL-FUSE: Personalized Mammographic Image Enhancement via Density-Adaptive Frequency Fusion. SIIM 2026 Annual Meeting, Pittsburgh, PA, Jun 10–12, 2026 (Oral)
53. **Dapamede T**, Li F, Chavoshi M, Khosravi B, Brown-Mulry B, Jeon YS, Mansuri A, Isaac RS, Sanyika C, Malik J, Newsome J, Gichoya JW, Trivedi H. Scalable, Objective Breast Density via Foundation Model Probing. SIIM 2026 Annual Meeting, Pittsburgh, PA, Jun 10–12, 2026 (Poster)

54. **Dapamede T**, Li F, Dere AA, Chavoshi M, Khosravi B, Robichaux C, Mansuri A, Brown-Mulry B, Isaac RS, Jeon YS, Sanyika C, Malik J, Newsome J, Trivedi H, Gichoya JW. Clinical Validity of Foundation Model-Derived Cardiomegaly as a Diagnostic and Prognostic Biomarker for Heart Failure. SIIM 2026 Annual Meeting, Pittsburgh, PA, Jun 10–12, 2026 (Oral)
55. Garomsa BA, Loyani L, **Dapamede T**, Li F, Newsome J, Trivedi H, Williamson D, Gichoya JW. How Precise Must Tumor Segmentation Be? Mask Quality and Prediction of Treatment Response and Receptor Status in Breast DCE-MRI. Winship Scientific Symposium 2026, Atlanta, GA, Nov 2, 2026 (Poster)
56. Isaac RS, Brown-Mulry B, **Dapamede T**, Newsome JM, Gichoya JW, Trivedi H. Automated segmentation of mammographic quality landmarks for technical recall assessment in breast screening. RSNA 2026 Annual Meeting, Chicago, IL, Nov 29–Dec 3, 2026 (Poster)
57. Dissanayaka A, **Dapamede T**, Malik J, Chavoshi M, Li F, Jeon YS, Mansuri A, Brown-Mulry B, Isaac RS, Sanyika CR, Gichoya JW, Trivedi H. Deep Learning Detection of Carotid Calcifications on Cervical Spine Radiographs Predicts Major Adverse Cardiovascular Events. RSNA 2026 Annual Meeting, Chicago, IL, Nov 29–Dec 3, 2026 (Poster)
58. **Dapamede T**, Joshi V, Li F, Chavoshi M, Jeon YS, Mansuri A, Brown-Mulry B, Isaac RS, Sanyika C, Malik J, Robichaux C, Dissanayaka A, Gichoya J, O'Neill WC, Banerjee I, Trivedi H. AI-Quantified Breast Arterial Calcification on Screening Mammography as a Predictor of Incident Valvular Heart Disease: A Multi-Institutional Study. RSNA 2026 Annual Meeting, Chicago, IL, Nov 29–Dec 3, 2026 (Oral)
59. **Dapamede T**, Joshi V, Li F, Chavoshi M, Jeon YS, Mansuri A, Brown-Mulry B, Isaac RS, Sanyika C, Malik J, Robichaux C, Dissanayaka A, Gichoya J, O'Neill WC, Banerjee I, Trivedi H. AI-Quantified Breast Arterial Calcification on Screening Mammography and Its Correlation with Coronary Artery Calcium at Subsequent Cardiac CT. RSNA 2026 Annual Meeting, Chicago, IL, Nov 29–Dec 3, 2026 (Oral)

10. **Other Scholarly Products:**

(a) Manuals, Computer Programs, and Other Teaching Aids:

1. **Dapamede T**, Atlas J, Moghiseh M, Butler P, Butler A. MARS FastMD (Fast Material Decomposition). [Proprietary Computer Software]
2. Khosravi B, **Dapamede T**. RadPrompter. [Open-Source Computer Software]
3. Trivedi H, Banerjee I, O'Neill WC, Urooj A, **Dapamede T**, Gichoya J. Automated Software to Quantify Breast Arterial Calcifications from Mammograms. [Proprietary Computer Software]
4. Li F, Khosravi B, Chavoshi M, **Dapamede T**, Jeon YS, Newsome J, Trivedi H, Gichoya J. RadHarmony: One interface for public radiology datasets and foundation models, with dataset harmonizers, PyTorch/MONAI dataset classes, and standardized evaluators. 2026. [Open-Source Computer Software]
5. **Dapamede T**, Li F. RadReader: Lightweight DICOM reader for Python that returns an image a radiologist would see. 2026. [Open-Source Computer Software]

(b) Published Abstracts:

1. **Dapamede T**, Chapagain K, Moghiseh M, Atlas J, Butler P, Butler A, MARS Collaboration. Probability Mapping of Spectral CT Material Decomposition to Aid in Determining Material

Identification and Quantification Likelihood. IVCNZ 2022. Lecture Notes in Computer Science, vol 13836. Springer, Cham.
https://doi.org/10.1007/978-3-031-25825-1_15

2. Li F, Gichoya J, **Dapamede T**, Westney G, Flenaugh E, Foreman M. Impact of Social Determinants of Health on Accelerated Lung Function Decline. *Am J Respir Crit Care Med*. 2024;209(Meeting Abstracts).
3. **Dapamede T**, Urooj A, Gershon G, van Assen M, Ayoub C, Sperling L, Arsanjani R, Gichoya J, O'Neill WC, Banerjee I, Trivedi H. Risk Stratification of Adverse CV Events and Mortality in Women Using AI-Based Quantification of Vascular Calcifications. *J Am Coll Cardiol*. 2025;85(12 Suppl):315.
https://doi.org/10.1016/S0735-1097(25)00800-9
4. Urooj A, **Dapamede T**, Patel B, Ayoub C, Arsanjani R, O'Neill WC, Trivedi H, Banerjee I. A Multi-Task Learning Approach for Segmentation of Breast Arterial Calcifications in Screening Mammograms. *AMIA Annu Symp Proc*. 2024;2024:1139–1148. PMID: 40417479; PMCID: PMC12099439.

(c) Archived Publications:

1. **Dapamede T**, Urooj A, Joshi V, Gershon G, Li F, Chavoshi M, Brown-Mulry B, Isaac RS, Mansuri A, Robichaux C, Ayoub C, Arsanjani R, Sperling L, Gichoya J, van Assen M, O'Neill WC, Banerjee I, Trivedi H. Novel AI-Based Quantification of Breast Arterial Calcification to Predict Cardiovascular Risk. arXiv preprint arXiv:2503.14550. 2025 Mar 17.
Published as: Eur Heart J. 2026;47(18):2206–2220.
2. Brown-Mulry B, Isaac RS, Lee SH, Seth A, Min K, **Dapamede T**, Li F, Mansuri A, Woo M, Fauria-Robinson CA, Paryani B, Gichoya JW, Trivedi H. Subgroup Performance of a Commercial Digital Breast Tomosynthesis Model for Breast Cancer Detection. arXiv preprint arXiv:2503.13581. 2025 Mar 17.
Published as: Nat Commun. 2026;17:4249.
3. Li F, Trivedi H, Khosravi B, **Dapamede T**, Chavoshi M, Dere A, Isaac RS, Mansuri A, Newsome J, Purkayastha S, Gichoya J. Evaluating Vision Language Models (VLMs) for Radiology: A Comprehensive Analysis. arXiv preprint arXiv:2504.16047. 2025 Apr 22.
4. Chavoshi M, Trivedi H, Newsome J, Mansuri A, Sanyika C, Isaac RS, Li F, **Dapamede T**, Gichoya J. Impact of Label Noise from Large Language Models Generated Annotations on Evaluation of Diagnostic Model Performance. arXiv preprint arXiv:2506.07273. 2025 Jun 8.
Published as: Radiol Artif Intell. 2026;8(2):e250477.
5. Li F, **Dapamede T**, Chavoshi M, Jeon YS, Khosravi B, Dere A, Brown-Mulry B, Isaac RS, Mansuri A, Sanyika C, Newsome J, Purkayastha S, Banerjee I, Trivedi H, Gichoya J. Feature Quality and Adaptability of Medical Foundation Models: A Comparative Evaluation for Radiographic Classification and Segmentation. arXiv preprint arXiv:2511.09742. 2025 Nov 12.
6. Li F, Khosravi B, Chavoshi M, Jeon YS, **Dapamede T**, Trivedi H, Newsome J, Gichoya J. MultiMedVision: Multi-Modal Medical Vision Framework. arXiv preprint arXiv:2605.09151. 2026 May 9.
7. Muthyala R, Yin Z, Jilla A, Li F, **Dapamede T**, Khosravi B, Chavoshi M, Gichoya J, Purkayastha S. Frozen Foundation-Model Embeddings Discard Small-Lesion Signal

in Chest Radiography: Implications for Pre-Deployment Evaluation. arXiv preprint arXiv:2606.11606. 2026 Jun 10.

8. Li F, Khosravi B, Chavoshi M, **Dapamede T**, Jeon YS, Newsome J, Trivedi H, Gichoya J. RadHarmony: Radiological Data Handling in the Era of Agentic AI. arXiv preprint arXiv:2607.27235. 2026 Jul 24.
9. Jeon YS, Brown-Mulry B, Isaac RS, Dissanayaka A, **Dapamede T**, Chavoshi M, Gichoya J, Trivedi H. Solving the Needle-in-a-Haystack Problem in Mammography Vision-Language Model with Differentiable Subset Sampling. arXiv preprint arXiv:2609.03085. 2026 Sep 2.
10. Du H, Brown-Mulry B, Jeon YS, Isaac RS, **Dapamede T**, Li F, Mansuri A, Wang AX, Hartman M, Feng M, Gichoya J, Trivedi H. Beyond Screening: Evaluating the Clinical Transferability of AI Models to Complex Diagnostic Mammography. SSRN preprint 10.2139/ssrn.6808864. 2026.

11. **Society Memberships:**

1. Indonesian Medical Association (*Ikatan Dokter Indonesia)* 2015–present
   Member
2. Society for Imaging Informatics in Medicine (SIIM) 2020–present
   Member In-Training
3. Radiological Society of North America (RSNA) 2024–present
   Member In-Training
4. Sigma Xi, The Scientific Research Honor Society 2024–present
   Associate Member
5. North American Society for Cardiovascular Imaging (NASCI) 2024–present
   Fellow In-Training
6. American College of Cardiology (ACC) 2025–present
   Fellow In-Training
7. American Heart Association (AHA) 2025–present
   Student/Trainee Member

12. **Peer Review Activities:**

1. IEEE Access 2020–2023
   Peer Reviewer
2. American Medical Informatics Association (AMIA) Annual Symposium 2025
   Abstract Reviewer
3. PLOS Digital Health 2025
   Reviewer
4. BJR|Artificial Intelligence 2025
   Reviewer
5. Radiology: Cardiothoracic Imaging 2026
   2026-2027 Early Career Editorial Board

13. **Organization of Conferences:**

1. Mentor, Emory Health AI Bias Datathon and Symposium, Atlanta, GA, Aug 18–21, 2023
2. Organizer, Multimodal4Health Workshop @ ICHI 2024, Jun 3, 2024
3. Junior Moderator: AI Applications Research Abstracts. SIIM 2024 Annual Meeting, National Harbor, MD, Jun 27, 2024
4. Mentor, Emory Health AI Bias Datathon and Symposium, Atlanta, GA, Aug 23–25, 2024
5. Junior Moderator: Enterprise Imaging and Education Applied Informatics Abstracts. SIIM 2025 Annual Meeting, Portland, OR, May 23, 2025
6. Mentor, Emory Health AI Bias Datathon and Symposium, Atlanta, GA, Aug 17–24, 2025
7. Senior Moderator: AI Platforms, Infrastructure, and Enterprise Deployment Applied Informatics Abstracts. SIIM 2026 Annual Meeting, Pittsburgh, PA, Jun 12, 2026
8. Mentor, Emory Health AI Bias Datathon and Symposium, Atlanta, GA, Jul 25–Aug 2, 2026

14. **Lectureships and Seminar Invitations:**

    1. Exploring AI-Driven Prognostic Potentials in Opportunistic Screening Studies. Emory University Research in Progress Seminar (RIPS), Atlanta, GA, Feb 29, 2024
    2. Deploying AI in Real World Setting. Emory Health AI Bias Symposium 2024, Atlanta, GA, Aug 23, 2024
    3. Post Deployment Monitoring and Real-World Evaluation of Clinically Deployed AI Tools. RSNA 2025, *Advanced Quality Improvement Through AI: Automated Monitoring and Real-World Impact* (T6-CNPM15F; sponsored by the RSNA Quality Improvement Committee), Chicago, IL, Dec 2, 2025
    4. Mammograms Beyond Cancer: Using AI to Predict Heart Disease in Women. Georgia CTSA Lunch & Learn Series with Informatics Experts, Apr 22, 2026

15. **Media Appearances:**

    1. Aunt Minnie – CMIMI: LLMs can monitor AI software after deployment, Oct 2024
    2. American College of Cardiology – AI-Powered Mammograms: A New Window Into Heart Health, Mar 2025
    3. Physician's Weekly – ACC: Screening Mammograms + AI May ID Cardiovascular Disease, Mar 2025
    4. HealthDay – Mammograms Can Help Assess Women's Heart Health As Well, Mar 2025
    5. Cardiovascular Business – Opportunistic screening: AI highlights key heart findings in mammography images, Mar 2025
    6. Emory Health Digest – Mammograms for Heart Health?, Summer 2025
    7. The Washington Post – The surprising way breast cancer screenings could reveal heart disease, Mar 2026
    8. *European Heart Journal* article coverage – 110+ news outlets worldwide (Altmetric), 2026
    9. Atlanta Magazine – AI can predict cardiovascular disease in women, Aug 2026