

# DR SAMER ALABED

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## RESEARCH PROFILE

Consultant cardiac radiologist leading research in AI and cardiac imaging

**100+** PubMed-indexed publications; **35+** lead or senior author

**20,000+** citations; **h-index 29**; cited in **6** International Guidelines

**£1.0M+** competitive grant funding; **£200k+** as Principal Investigator

## QUALIFICATIONS

2024	<b>CCT</b> - Certificate of Completion of Training in Radiology	General Medical Council
2023	<b>PhD</b> - AI in cardiac MRI	University of Sheffield
	» Supervisors: Professor Andy Swift and Professor Haiping Lu	
2021	<b>FHEA</b> - Fellow of the Higher Education Academy	Higher Education Academy
2020	<b>PgCert</b> - Medical Education	University of Dundee
2019	<b>MSc</b> - Clinical Research Methods (Distinction)	University of Sheffield
2018	<b>FRCR</b> - Fellow of the Royal College of Radiologists	Royal College of Radiologists
2013	<b>MSc</b> - Evidence Based Health-Care	University of Oxford
2011	<b>MD</b> - Medical Degree	Damascus University

## RESEARCH EXPERIENCE

2024-	<b>NIHR BRC Senior Clinical Research Fellow in Radiology</b>	University of Sheffield
2022-24	<b>NIHR Clinical Lecturer in Radiology</b>	University of Sheffield
2019-22	<b>Wellcome Trust Research Fellow in Cardiac MRI</b>	University of Sheffield
	» Created the ASPIRE Cardiac MRI PH database (>10,000 scans; world's largest)	
	» Designed, validated, and audited AI cardiac MRI segmentation pipelines	
2014-19	<b>NIHR Academic Clinical Fellow in Radiology</b>	University of Sheffield
2010-	<b>Cochrane Systematic Reviewer</b>	Cochrane Heart

## CLINICAL EXPERIENCE

2024-	<b>Consultant Cardiac Radiologist</b>	Sheffield Teaching Hospitals
	» <b>SCMR Level 3</b> Cardiac MR accreditation	
	» <b>BSCI Level 3</b> Cardiac CT accreditation	
2023-24	<b>Advanced Cardiothoracic Imaging Fellowship</b>	Royal Papworth Hospital
	» Supervisors: Dr Bobby Agrawal and Dr Jonathan Weir-Mccall	
2022-23	<b>Cardiothoracic Radiology Training</b>	Sheffield Teaching Hospitals
2019-22	<b>Out-of-Programme for Research</b>	Sheffield Teaching Hospitals
2014-19	<b>Core Radiology Training</b>	Sheffield Teaching Hospitals
2013-14	<b>Clinical Foundation Training</b>	Buckinghamshire Healthcare Trust

## GRANTS & AWARDS

### Principal Investigator

£92,000	AI-enhanced medical imaging reporting	NIHR
£50,000	SYDHH Innovation Pipeline - Patient Friendly Reports	South Yorkshire Digital Health Hub
£27,500	Clinical Lecturer Starter Grant: Automating Cardiac Imaging	Academy of Clinical Sciences
£15,000	Topol Digital Fellowship: AI-enhanced medical imaging reports	NHS England
£3,000	Education, Research and Innovation Grant	Health Education England
£3,000	Constance Thornton for Radiology Research	RCR
£23,500	University of Oxford Saïd Scholarship	The Saïd Foundation

### Co-Investigator

£469,272	Pulmonary hypertension induced right heart failure	British Heart Foundation
£49,998	AI-Assisted Diagnosis of Pulmonary Hypertension	NIHR i4i
£199,946	Building a database of imaging in suspected PH	Janssen Pharmaceuticals
£114,354	Automatic Echo assessment to improve PH diagnosis	Janssen Pharmaceuticals
£10,000	NOAC for myocardial infarction - a network meta-analysis	NIHR Cochrane Incentive Award

### Awards

£1500	AI-NET Fellowship - Excellence in AI Research - 2023	DAAD
Winner	NHS Parliamentary Awards - National Awards - 2023	NHS England
Finalist	Digital Innovator of the Year - 2023	HSJ Awards
Distinction	Radiology Editor's Recognition Award - 2022 & 2023	Radiology: RCTI
1st prize	NHS Innovation Award - 2022	Medipex
1st prize	Oral Abstract Winner at RCR Global - 2022	RCR
\$1,000	RSNA Trainee Research Prize - 2021	RSNA
1st prize	George and Vera Ansell Radiology Prize - 2018	RCR

## NATIONAL LEADERSHIP AND TEACHING

### Leadership

2025-	BSCI Executive Committee Member - Co-Lead for Education	BSCI
2022-	RCR Academic Committee	RCR
2022-24	BSCMR Co-Chair Trainee Committee	BSCMR
2022-24	BSCI Co-Chair Trainee Committee	BSCI
2022-24	RCR AI working group member	RCR

### Teaching

2025-26	Co-organiser BSCI Cardiac Imaging Webinar Series	BSCI
2026	Co-organiser BCS Cardiac CT course	BCS
2024	Programme Chair BSCI Annual Meeting	BSCI
2023	Co-organiser BSCMR Cardiac MRI Webinar Series	BSCMR
2022-	Doctoral supervision: 6 PhD students; primary supervisor for 2	University of Sheffield

## IMPACT AND RECOGNITION

### Citations in International Guidelines

2025	Adult & Pediatric Advanced Life Support (ALS/PALS)	AHA & AAP
2025	Right-Sided Heart Failure: A Scientific Statement	AHA
2022	Diagnosis and Treatment of Pulmonary Hypertension	ESC & ERS
2019	Management of Supraventricular Tachycardia	ESC
2015	Diagnosis and Management of Pericardial Diseases	ESC

### Media Coverage

Mar 2025	Fixing the NHS: What Will It Take	BBC Panorama
May 2023	NHS doctors want ChatGPT AI to write patient heart reports	The Daily Mail
Dec 2022	AI spots damage on heart scans in seconds.	The Daily Mail
Mar 2023	AI can save NHS time and money with heart scans.	The Mirror

## SERVICE TO RESEARCH COMMUNITY

Editorial	Deputy Editor Radiology: Cardiothoracic Imaging (2021-2025)	RCTI
Editorial	Contact Editor Cochrane Heart (2019-2023)	Cochrane
Review	50+ peer reviews for high-impact journals	
Review	10+ national and international grant reviews	
Faculty	Invited faculty at RSNA, ESCR, BSCMR, BSCI and UKIO	

## SKILLS

AI & Data	<b>Python</b> (PyTorch, TensorFlow, MONAI, Scikit, NumPy, Pandas)
Statistics	<b>R</b> (tidyverse, survival, meta), <b>STATA</b> , <b>SPSS</b>
Typesetting	<b>LaTeX</b> (Advanced thesis and academic manuscript typesetting)
Languages	<b>English</b> (Fluent), <b>German</b> (Fluent), <b>Arabic</b> (Fluent)

## HIGHLIGHTED PUBLICATIONS

100+ PubMed-indexed publications, including *The Lancet Digital Health*, *Radiology*, *JACC: Cardiovascular Imaging*, *European Heart Journal*, and *European Respiratory Journal*.

- [1] **Alabed** S, Maiter A, Hughes A, Hokmabadi A, Alahdab F, Stevenson M, Ma N, Gaizauskas R, Chico TJ, Swift AJ, Li JJ, Kleesiek J, and Langlotz C. *Large language models for simplifying radiology reports: a systematic review and meta-analysis of patient, public, and clinician evaluations*. In press. THE LANCET DIGITAL HEALTH, 2026.
- [2] **Alabed** S, Garg P, Alandejani F, Dwivedi K, Maiter A, Karunasaagarar K, Rajaram S, Hill C, Thomas S, Gossling R, Sharkey M, Salehi M, Wild JM, Watson L, et al. *Establishing minimally important differences for cardiac MRI endpoints in pulmonary arterial hypertension*. EUROPEAN RESPIRATORY JOURNAL, 2023.
- [3] **Alabed** S, Alandejani F, Dwivedi K, Karunasaagarar K, Sharkey M, Garg P, Koning PJH de, Tóth A, Shahin Y, Johns C, Mamalakis M, Stott S, Capener D, Wood S, et al. *Validation of Artificial Intelligence Cardiac MRI Measurements: Relationship to Heart Catheterization and Mortality Prediction*. RADIOLOGY, 2022.
- [4] **Alabed** S, Uthoff J, Zhou S, Garg P, Dwivedi K, Alandejani F, Gosling R, Johns C, Wild JM, Rothman AM, Geest RJ van der, Condliffe R, Kiely DG, Lu H, and Swift AJ. *Machine Learning cardiac-MRI features predict mortality in newly diagnosed pulmonary arterial hypertension*. EUROPEAN HEART JOURNAL - DIGITAL HEALTH, 2022.
- [5] Garg P, Gosling R, Swoboda P, Jones R, Rothman A, Wild JM, Kiely DG, Condliffe R, **Alabed** S, and Swift AJ. *Cardiac magnetic resonance identifies raised left ventricular filling pressure: prognostic implications*. EUROPEAN HEART JOURNAL, May 2022.