

Curriculum Vitae

Steffen E Petersen, MSc MPH MD (Dr med) DPHIL
SFHEA FRCP FSCMR FJCS FACC FEACVI FESC

Application for the position of Vice President

Personal Information:

Place and Date of Birth: Mainz/Germany, 24/08/1970

Nationality: German and British



Current Position and Professional Address

Since 2024 - Director (Interim) of the British Heart Foundation Data Science Centre

Since 2014 - Professor of Cardiovascular Medicine at Queen Mary University of London

Since 2009 - Consultant Cardiologist at Barts Heart Centre, Barts Health NHS Trust

Education and Postgraduate Training

2020 Senior Fellow of the Higher Education Academy (SFHEA)

2018 Executive MSc Health Economics, Outcomes and Management in Cardiovascular Science, London School of Economics

2014 MPH (Harvard School of Public Health)

2009 GMC Specialist Register for Cardiology

2005 GMC Specialist Register for General/Internal Medicine

2005 DPhil (Oxford)

1998 MD (Dr med, Mainz, Germany)

1998 Graduation (MBChB equivalent), Mainz, Germany

European Society of Cardiology Activities

Since 2025 Representative to the European Society of Cardiology Data Science Committee on WP7 of the Joint Action on Cardiovascular diseases and Diabetes (JACARDI) project

Since 2024 Editor, ESC TV Today

Since 2024 European Society of Cardiology Data Science Committee, Co-lead for the Public Health Research Group

Since 2024 European Society of Cardiology Membership Committee, Chair Task force associations

Since 2016 EACVI Board member (elected)

2022 – 2024 European Society of Cardiology Board member

2022 – 2024 European Society of Cardiology Board member

2022 – 2024 EACVI Past President (elected)

2021 – 2024 EACVI Task Force – Digital Health

2020 – 2024 EACVI Education – Certification and Accreditation Committee -Member

2020 – 2022 ESC Clinical Practice Guidelines (CPG) Committee -Member

2020 – 2022 EACVI Congress Scientific Programme Committee – Chair

- 2014 – 2016 Member of EACVI certification committee
- 2012 – 2016 Elected member of EACVI Section CMR nucleus
- 2010 – 2014 Chair of the European CMR Exam Board

Participation in Other International Scientific Committees

- Since 2025 Member of the British Heart Foundation Fellowships Committee
- Since 2018 Society for Cardiovascular Magnetic Resonance (SCMR) Advocacy Committee member
- 2014 – 2017 Elected member of SCMR Board of Trustees
- 2010 – 2014 Chair of SCMR Clinical Trials Committee

Editorial Boards

- Since 2013 Editorial Board member for European Heart Journal: Cardiovascular Imaging
- Since 2010 Editorial Board member for Cardiovascular Magnetic Resonance
- Since 2017 JACC: Cardiovascular Imaging editorial consultant
- 2017 – 2021 Specialty Chief Editor Frontiers Cardiovascular Medicine- Cardiac Imaging section

Leadership and Management Experience

- Since 2025 Chair of the Data Safety Monitoring Committee for the EVEREST trial
- Since 2024 Chair of the PROTEUS Trial Steering Committee
- Since 2024 UK HFpEF steering group member
- Since 2024 AI Centre, Board member, King's College London
- Since 2019 NIHR Cardiovascular Health Informatics Collaborative (HIC), clinical lead at Barts/QMUL
- Since 2013 International advisory group member for German National Cohort cardiac imaging
- Since 2010 UK Biobank co-lead CMR, member of the imaging working group
- Since 2009 Centre Lead for Advanced Cardiovascular Imaging, Queen Mary University of London

Fellowships and Honours

- 2025 Society for Cardiovascular Magnetic Resonance (SCMR) Gold Medal Winner
- 2025 Research Excellence Award by the Vice Principal for Research, Queen Mary University of London
- 2023 N2 National Clinical Impact Award
- 2023 Fellowship of Japanese Circulation Society (FJCS)
- 2021 Fellow of QMUL's Digital Environment Research Institute (DERI)
- 2019 Fellow of the European Association of Cardiovascular Imaging (FEACVI)
- 2019 National Clinical Excellence Award (Bronze)
- 2019 Senior Fellow of the Higher Education Academy (SFHEA)
- 2018 Fellow of the Society of Cardiovascular Magnetic Resonance (FSCMR)
- 2013 Barts Health Hero's winner, Happy London team (PI for Barts Charity Grant)
- 2013 Fellow of the Royal College of Physicians (FRCP)
- 2011 Fellow of the American College of Cardiology (FACC)
- 2010 Fellow of the European Society of Cardiology (FESC)
- 2007 Winner Clinical Science, Young Researcher Worker's Prize, British Cardiovascular Society
- 2006 Finalist for best basic science presentation at the 9th Annual Scientific Meeting of the Society for Cardiovascular Magnetic Resonance (SCMR)
- 2006 Finalist for best clinical science presentation at the 9th Annual Scientific Meeting of the Society for Cardiovascular Magnetic Resonance (SCMR)

2005 Finalist BJCA-Cordis International Research Awards
2002 – 2004 Fellowship German Academic Exchange Service (DAAD)
1994 – 1998 German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes)

Top 10 Most Relevant Publications

- 1) **Petersen SE**, et al. Left ventricular non-compaction: insights from cardiovascular magnetic resonance imaging. *J Am Coll Cardiol.* 2005;46:101-105. doi: 10.1016/j.jacc.2005.03.045
- 2) Zemrak F, ..., **Petersen SE**. The relationship of left ventricular trabeculation to ventricular function and structure over a 9.5-year follow-up: the MESA study. *J Am Coll Cardiol.* 2014;64:1971-1980. doi: 10.1016/j.jacc.2014.08.035
- 3) Aung N, ..., **Petersen SE**. Prognostic significance of left ventricular non-compaction: A systematic review and meta-analysis of observational studies. *Circulation: Cardiovascular Imaging.* 2020;13:e009712. doi: 10.1161/CIRCIMAGING.119.009712
- 4) **Petersen SE**, et al. Excessive Trabeculation of the Left Ventricle: JACC: Cardiovascular Imaging Expert Panel Paper. In: *JACC Cardiovasc Imaging.* 2023:408-425.
- 5) **Petersen SE**, et al. UK Biobank's cardiovascular magnetic resonance protocol. *Journal of Cardiovascular Magnetic Resonance.* 2016;18:8. doi: 10.1186/s12968-016-0227-4
- 6) Bai W, ..., **Petersen SE**, Piechnik SK, Neubauer S, Glocker B, Rueckert D. Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. *Journal of Cardiovascular Magnetic Resonance.* 2018;20:65. doi: 10.1186/s12968-018-0471-x
- 7) Aung N, ..., **Petersen SE**. Association Between Ambient Air Pollution and Cardiac Morpho-Functional Phenotypes: Insights From the UK Biobank Population Imaging Study. *Circulation.* 2018;138:2175-2186. doi: 10.1161/CIRCULATIONAHA.118.034856
- 8) Aung N, ..., **Petersen SE**. Genome-Wide Analysis of Left Ventricular Image-Derived Phenotypes Identifies Fourteen Loci Associated With Cardiac Morphogenesis and Heart Failure Development. *Circulation.* 2019;140:1318-1330. doi: 10.1161/CIRCULATIONAHA.119.041161
- 9) Aung N, ..., **Petersen SE***, Munroe PB. Genome-wide association analysis reveals insights into the genetic architecture of right ventricular structure and function. *Nat Genet.* 2022;54:783-791. doi: 10.1038/s41588-022-01083-2
- 10) McCracken C, ..., **Petersen SE***, Neubauer S. Multi-organ imaging demonstrates the heart-brain-liver axis in UK Biobank participants. *Nat Commun.* 2022;13:7839. doi: 10.1038/s41467-022-35321-2

Major Research Interest

Professor Steffen Petersen is a leading international authority in cardiovascular magnetic resonance (CMR) imaging, whose work has transformed the field through pioneering innovation, global collaboration, and inclusive leadership. As a clinical academic, he has driven major advances in population-level imaging science, artificial intelligence (AI) in cardiovascular diagnostics, and evidence-based policy, while remaining committed to equitable, high-quality care. As (interim) Director of the British Heart Foundation Data Science Centre, he enables research with linked electronic health records across four nations in the UK (67 million people).