

# Giandomenico Bisaccia, MD, PhD



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## Experience

*Harefield Hospital, London, UK*

Sept 2022—Feb 2024

- Clinical research fellowship in CMR
  - Prepared the initial report for 250+ clinical CMR scans
  - Studied the clinical value of cardiovascular magnetic resonance in patients with chest pain, cardiomyopathies, and long term after cardiac transplantation
  - Improved research productivity among peers in various research groups

## Education

*London School of Economics, London, UK*

Dec 2023—Dec 2025

- MSc in Health Economics, Outcomes and Management in Clinical Sciences (class of 2025)
  - Modules included Economic Analysis for Health Policy (distinction), Quality and Outcomes in Clinical Sciences (distinction)
  - Volunteered as the class Clinical Student Representative for 2023/24

*Royal Brompton Hospital, London, UK*

Oct—Dec 2022

- Clinical CMR training course
  - Underwent full-time training in cardiac MR under CMR Level 3 certified experts
  - Contributed to the CMR service of the hospital

*G. d'Annunzio University of Chieti and Pescara, Chieti, Italy*

- PhD in Neuroscience and Imaging (MED/11, Doctor Europaeus) Oct 2021—Mar 2024

Thesis title: *Value of Quantitative Stress Perfusion CMR in the Long-Term Assessment of Cardiac Transplantation Recipients*

Supervisors: Prof. Sabina Gallina, Prof. Chiara Bucciarelli-Ducci, and Prof. Fabrizio Ricci

- Established an international collaboration between the University of Chieti, Italy and Harefield Hospital, London, UK
- Co-authored 17 peer-reviewed publications
- Co-supervised 12 undergraduate and 4 postgraduate students
- Presented research findings for 7 original research studies at major international conferences for cardiology (ESC, AHA) and cardiovascular imaging (EACVI, SCMR)
- Was a finalist in the CMR 2024 Early Career Award, clinical track (2024)

- Master's Degree in Medicine (summa cum laude, equivalent to MD) Oct 2014—Apr 2021

Thesis title: *CMR Reference Values of Mitral and Tricuspid Annular Dimensions: the UK BioBank Cohort*

Supervisors: Prof. Sabina Gallina, Prof. Fabrizio Ricci

- Completed the «Path of Excellence» on electrophysiology between 2016 and 2019, with focus on surface electromyography (Supervisor: Prof. Gian Luca Romani)
  - \* First student to be enrolled in the local MD-PhD track

## Teaching

*University of Padua, Italy*

Jan 2024

- Lecture on CMR safety, MSc in Cardiac magnetic resonance imaging

## Professional licenses

Good Clinical Practice certification. <i>National Institute for Health and Care Research</i> , London, UK	Oct 2022
Basic Life Support Provider, American Heart Association. “ <i>Dinamica</i> ” <i>Training Center</i> , Rome, Italy	Jun 2021
<ul style="list-style-type: none"> <li>• Medical licenses           <ul style="list-style-type: none"> <li>– UK: General Medical Council, reference number 8023039</li> <li>– Italy: “Ordine dei Medici-Chirurghi ed Odontoiatri”, Chieti, reference number 5690</li> </ul> </li> </ul>	Feb 2023 May 2021

## Professional skills

- Clinical research
  - systematic review and meta-analysis (5 published)
  - diagnostic studies (accuracy, clinical utility)
  - prognostic studies (data scraping, survival analysis)
- Data science
  - Strong data modelling skills, R
  - Data visualizations
  - Dynamic, reproducible reporting in Quarto
  - Development and deployment of server-based Shiny applications
- IT
  - Proficient in Word, Excel, Powerpoint
  - Creation and maintainance of RedCAP projects and Git repositories
  - Basic Adobe Illustrator
  - Prior experience in MATLAB
  - Basic LaTeX

## Language certifications

<ul style="list-style-type: none"> <li>• International English Language Testing System (IELTS)           <ul style="list-style-type: none"> <li>– Academic english. Listening 9.0; Reading 9.0; Speaking 8.5; Writing 7.5 (scored 1 to 10)</li> </ul> </li> </ul>	Nov 2023
<ul style="list-style-type: none"> <li>• Occupational English Test (OET)           <ul style="list-style-type: none"> <li>– Medical english. Listening A; Reading A; Speaking B; Writing B (scored E to A)</li> </ul> </li> </ul>	Feb 2023

## Professional affiliations

<ul style="list-style-type: none"> <li>• Membership to scientific societies           <ul style="list-style-type: none"> <li>– American Heart Association</li> <li>– American College of Cardiology</li> <li>– Society for Cardiovascular Magnetic Resonance</li> <li>– European Society of Cardiology</li> <li>– European Association of Cardiovascular Imaging</li> <li>– Italian Society of Cardiology</li> </ul> </li> </ul>	2023—present 2022—present 2022—present 2021—present 2021—present 2021—present
<ul style="list-style-type: none"> <li>• Participation to working groups           <ul style="list-style-type: none"> <li>– SCMR Early career</li> <li>– ACC Fellow in training</li> <li>– Italian Society of Cardiology               <ul style="list-style-type: none"> <li>* Cardiovascular magnetic resonance imaging applications</li> <li>* Sex differences in cardiovascular disease</li> </ul> </li> </ul> </li> </ul>	2022—present 2022—present

## Grants, prizes and awards

- Finalist, Early career award (clinical track), CMR 2024, London, UK Jan 2024
- Early Career Investigator Travel Grant, AHA Scientific Sessions, Philadelphia, USA November 2023
- Educational Grant, EACVI Conference, Barcelona, Spain May 2023
- Travel Grant, SCMR Conference, San Diego, USA Jan 2023

## Publications

**Atrial electro-functional predictors of incident atrial fibrillation in cardiac amyloidosis** (2024). G. Sinigiani, L. De Michieli, A. Porcari, C. Zocchi, A. Sorella, C. Mazzoni, G. Bisaccia, A. De Luca, G. Di Bella, D. Gregori, F. Perfetto, M. Merlo, G. Sinagra, S. Iliceto, M. Perazzolo Marra, D. Corrado, F. Ricci, F. Cappelli and A. Cipriani. *Heart Rhythm*.

**Underlying mechanisms and cardioprotective effects of SGLT2i and GLP-1Ra: insights from cardiovascular magnetic resonance** (2024). A. Cersosimo, N. Salerno, J. Sabatino, A. Scatteia, G. Bisaccia, S. De Rosa, S. Dellegrottaglie, C. Bucciarelli-Ducci, D. Torella and I. Leo. *Cardiovascular Diabetology*.

**Guillain–Barré syndrome and COVID-19 vaccination: a systematic review and meta-analysis** (2024). S. Censi, G. Bisaccia, S. Gallina, V. Tomassini and A. Uncini. *Journal of Neurology*.

**Diagnostic and Prognostic Value of Stress Cardiovascular Magnetic Resonance Imaging in Patients With Known or Suspected Coronary Artery Disease: A Systematic Review and Meta-analysis** (2023). F. Ricci, M. Y. Khanji, G. Bisaccia, A. Cipriani, A. Di Cesare, L. Ceriello, C. Mantini, M. Zimarino, A. Fedorowski, S. Gallina, S. E. Petersen and C. Bucciarelli-Ducci. *JAMA Cardiology*.

**Prognostic Significance of Late Gadolinium Enhancement in Fabry Disease-A Systematic Review and Meta-Analysis** (2023). F. Ricci, G. Bisaccia, D. Mansour, L. V. Molinari, M. Di Mauro, G. Renda, M. Y. Khanji and S. Gallina. *The American Journal of Cardiology*.

**The Role of Multimodality Imaging in Pediatric Cardiomyopathies** (2023). S. Moscatelli, I. Leo, F. Bianco, N. Borrelli, M. Beltrami, M. Garofalo, E. G. Milano, G. Bisaccia, F. Iellamo, P. P. Bassareo, A. Pradhan, A. Cimini and M. A. Perrone. *Journal of Clinical Medicine*.

**CMR Reclassifies the Majority of Patients with Suspected MINOCA and non MINOCA** (2023). K. Liang, G. Bisaccia, I. Leo, M. G. L. Williams, A. Dastidar, J. W. Strange, E. Sammut, T. W. Johnson and C. Bucciarelli-Ducci. *European Heart Journal - Cardiovascular Imaging*.

**The Role of Advanced Cardiovascular Imaging Modalities in Cardio-Oncology: From Early Detection to Unravelling Mechanisms of Cardiotoxicity** (2023). I. Leo, M. Vidula, G. Bisaccia, M. C. Procopio, R. Licordari, M. Perotto, G. La Vecchia, N. Miaris, P. E. Bravo and C. Bucciarelli-Ducci. *Journal of Clinical Medicine*.

**Imaging patients with myocardial infarction with non-obstructive coronary arteries (MINOCA)** (2023). I. Leo, G. Bisaccia, N. Miaris, M. C. Procopio, R. Licordari and C. Bucciarelli-Ducci. *Heart*.

**Guillain-Barre syndrome and SARS-CoV-2 infection: a systematic review and meta-analysis on a debated issue and evidence for the ‘Italian factor’** (2023). S. Censi, G. Bisaccia, S. Gallina, V. Tomassini and A. Uncini. *European Journal of Neurology*.

**Cardiovascular Morbidity and Mortality Related to Non-alcoholic Fatty Liver Disease: A Systematic Review and Meta-analysis** (2023). G. Bisaccia, F. Ricci, M. Y. Khanji, A. Sorella, E. Melchiorre, G. Iannetti, K. Galanti, C. Mantini, A. D. Pizzi, C. Tana, G. Renda, A. Fedorowski, R. De Caterina and S. Gallina. *Current Problems in Cardiology*.

**Prognostic Value of High-Sensitivity Cardiac Troponin in Women** (2022). G. Bisaccia, F. Ricci, M. Y. Khanji, G. Gaggi, A. Di Credico, S. Gallina, A. Di Baldassarre and B. Ghinassi. *Biomolecules*.

**Cardiovascular magnetic resonance reference values of mitral and tricuspid annular dimensions: the UK Biobank cohort** (2021). F. Ricci, N. Aung, S. Gallina, F. Zemrak, K. Fung, G. Bisaccia, J. M. Paiva, M. Y. Khanji, C. Mantini and S. Palermi. *Journal of Cardiovascular Magnetic Resonance*.

**Post-Acute Sequelae of COVID-19 and Cardiovascular Autonomic Dysfunction: What Do We Know?** (2021). G. Bisaccia, F. Ricci, V. Recce, A. Serio, G. Iannetti, A. A. Chahal, M. Stahlberg, M. Y. Khanji, A. Fedorowski and S. Gallina. *Journal of Cardiovascular Development and Disease*.

**Mitochondrial Dysfunction and Heart Disease: Critical Appraisal of an Overlooked Association** (2021). G. Bisaccia, F. Ricci, S. Gallina, A. Di Baldassarre and B. Ghinassi. *International Journal of Molecular Sciences*.

**Nonalcoholic fatty liver disease and cardiovascular disease phenotypes** (2020). G. Bisaccia, F. Ricci, C. Mantini, C. Tana, G. L. Romani, C. Schiavone and S. Gallina. *SAGE Open Medicine*.

## **Main presentations at conferences**

**Prognostic Value of Myocardial Blood Flow Index Among Heart Transplant Recipients** G. Bisaccia, R. Licordari, I. Leo, G. La Vecchia, M. Perotto, M. C. Procopio, F. Ricci, S. Gallina, J. Wong and C. Bucciarelli-Ducci. Presented at CMR 2024 (Jan 2024).

**Safety and Feasibility of Adenosine Stress CMR for CAV Detection in Orthotopic Heart Transplant Recipients** G. Bisaccia, R. Licordari, I. Leo, G. La Vecchia, M. Perotto, M. C. Procopio, F. Ricci, S. Gallina, J. Wong and C. Bucciarelli-Ducci. Presented at CMR 2024 (Jan 2024).

**Comparative and Incremental Diagnostic and Prognostic Yield of Exercise ECG, CMR and SPECT in Patients With Suspected Ischaemic Heart Disease: A CE-MARC Sub-Study** G. Bisaccia, P. P. Swoboda, C. Bucciarelli-Ducci, S. Plein and J. Greenwood. Presented at AHA Scientific Sessions, Philadelphia, USA (Nov 2023)

**CMR reclassifies patients with suspected myocardial infarction with non-obstructive coronary arteries (MINOCA)** G. Bisaccia, K. Liang, M. G. L. Williams, I. Leo, A. Dastidar, E. Sammut, T. Johnson and C. Bucciarelli-Ducci. Presented at EACVI, Barcelona, Spain (May 2023)

**Prognostic yield of stress CMR to evaluate chronic coronary syndromes: a systematic review and meta-analysis** G. Bisaccia, M. Khanji, S. Gallina, S. Petersen, C. Bucciarelli-Ducci and F. Ricci. Presented at ESC Congress, Barcelona, Spain (August 2022)

**Diagnostic accuracy of stress CMR to evaluate chronic coronary syndromes: an updated meta-analysis** G. Bisaccia, M. Khanji, S. Gallina, S. Petersen, C. Bucciarelli-Ducci and F. Ricci. Presented at ESC Congress, Barcelona, Spain (August 2022)

**Cardiovascular morbidity and mortality related to non-alcoholic fatty liver disease: a systematic review and meta-analysis of prospective studies** G. Bisaccia, F. Ricci, E. Melchiorre, C. Tana, G. Renda, M. Khanji, A. Fedorowski, R. De Caterina and S. Gallina. Presented at ESC Congress (The Digital Experience) (August 2021)

## **References**

Available upon request.