



# Giandomenico Bisaccia, MD, PhD

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## Experience

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

May 2024-present

- Research fellow in cardiology
  - Conducting supervised research activity with focus on clinical applications of cardiovascular magnetic resonance (CMR)
  - Coordinating undergraduate and postgraduate students undertaking clinical research duties

*Royal Brompton Hospital, London, UK*

May 2023—present

- Honorary clinical research fellowship (part-time)
  - Investigated the research topics:
    - \* quantitative stress perfusion CMR
    - \* ischaemic and nonischaemic cardiomyopathies
    - \* CMR guidance to percutaneous revascularization

*Harefield Hospital, London, UK*

Sept 2022—May 2023

- Honorary clinical research fellowship (full time)
  - Prepared the initial report for 250+ clinical CMR scans
  - Conducted a clinical audit on the safety and feasibility of adenosine stress CMR after heart transplantation
  - Investigated the research topics:
    - \* clinical value of CMR 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) 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

Additional qualification: *Doctor Europaeus* (international supervision, revision and examination; PhD defended in the English language)

- 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 (European Society of Cardiology Congress, American Heart Association Scientific Sessions) and cardiovascular imaging (European Association of Cardiovascular Imaging, Society for Cardiovascular Magnetic Resonance)
- Was a finalist in the CMR 2024 Early Career Award, clinical track (2024)

- Master's Degree in Medicine (summa cum laude) 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

- «Path of Excellence» research track in Medicine Oct 2016—Oct 2019
  - Course on research methodology
  - Research activity with focus on surface electromyography
  - Supervisor: Prof. Gian Luca Romani
  - First student to be enrolled in the local MD-PhD track

## Teaching

*G. d'Annunzio University of Chieti and Pescara, Chieti, Italy* May 2024

- Honorary teaching assistant in clinical applications of CMR, Undergraduate radiographer course

*University of Padua, Italy* Jan 2024

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

## Professional licenses

Good Clinical Practice certification. *National Institute for Health and Care Research*, London, UK Oct 2022

Basic Life Support Provider, American Heart Association. *"Dinamica" Training Center*, Rome, Italy Jun 2021

- Medical licenses
  - UK: General Medical Council, reference number 8023039 Feb 2023
  - Italy: "Ordine dei Medici-Chirurghi ed Odontoiatri", Chieti, reference number 5690 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

- International English Language Testing System (IELTS) Nov 2023
  - Academic english. Listening 9.0; Reading 9.0; Speaking 8.5; Writing 7.5 (scored 1 to 10)
- Occupational English Test (OET) Feb 2023
  - Medical english. Listening A; Reading A; Speaking B; Writing B (scored E to A)

## Professional affiliations

- Membership to scientific societies
  - American Heart Association 2023—present
  - American College of Cardiology 2022—present
  - Society for Cardiovascular Magnetic Resonance 2022—present
  - European Society of Cardiology 2021—present
  - European Association of Cardiovascular Imaging 2021—present
  - Italian Society of Cardiology 2021—present
- Participation to working groups
  - SCMR Early career 2022—present
  - ACC Fellow in training 2022—present
  - Italian Society of Cardiology
    - \* Cardiovascular magnetic resonance imaging applications
    - \* Sex differences in cardiovascular disease

## Grants

- Participant to research unit for the “ULTRALIGHT-HCM” study, funded by the Italian Ministry of Public Education (PRIN PNRR) for € 299,604 July 2023

## 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.