

Ana Filipa Ferreira

Ana Filipa Ferreira graduated in Cardiopneumology from the Porto School of Health Technology and earned a Master's degree in Cardiovascular Pathophysiology from the Faculty of Medicine, University of Porto (FMUP) in 2017. During this time, she gained extensive laboratory experience and developed molecular biology and proteomics expertise. Her research career in cardiovascular (CV) sciences began at the Department of Surgery and Physiology, where she focused on cardiac reverse remodelling (RR) following aortic coarctation surgical repair. She also contributed to major Cardiothoracic Surgery and Heart Failure cohort studies, including the ROMA trial and the NETDIAMOND project (POCI-01-0145-FEDER-016385).

In 2019, she was awarded a PhD Studentship by the Foundation for Science and Technology (FCT) and completed a transthoracic echocardiography (TTE) internship at Centro Hospitalar Vila Nova de Gaia/Espinho. Her PhD project, *PERInatal MYocardial Remodelling (PERIMYR): Cardiac Remodelling and "Recovery" in Pregnancy as a Model to Understand the Mechanisms of Cardiovascular Diseases*, represents the first study designed to include a population of pregnant women to be used as a model to study cardiac remodelling and RR allowing to dissect the impact of comorbidities and to uncover potential biomarkers of these remodelling stages. Her PhD research resulted in:

- A collaboration with *Institut Pasteur* through EPIC-XS in 2021 to explore a multi-marker panel for predicting adverse postpartum CV RR through proteomic profiling of urine samples.
- Seven first-author publications in ISI Web of Science indexed journals (PMID: 36958578, 37495102, 37477690, 38334973, 38937573, 39579686, 38837573).
- Thirty-one abstracts presented at national and international congresses, including three invited speaker engagements.
- Two research awards (Bolsa João Porto 2020 and Prémio Saúde CV na Mulher 2023).

She completed her Doctoral Degree in Cardiovascular Sciences at FMUP in October 2023. One year later, she was awarded funding as the Principal Investigator (PI) of exploratory project, *Early Peripartum predictors of Cardiovascular REverse reMOdelling in hypertensive pregnant women (CAREMOM)*, supported by FCT (2023.12749.PEX) and the Bolsa de Investigação da Sociedade Portuguesa de Obstetrícia e Medicina Materno-Fetal in 2024. Additionally, she joined the COST Action Maternal Perinatal Stress and Adverse Outcomes in the Offspring: Maximising Infants' Development (CA22114) in May 2024.

Beyond her research, in March 2024, she officially started to teach undergraduate (Human Biology I in Digital Health and Biomedical Innovation) and Master students (CV and Respiratory Function II Assessment to the master's degree in CV and Respiratory Sciences) at FMUP.