

Jorge Mariscal Harana



## Qualifications

Biomedical Engineering, Doctor of Engineering, Non-Invasive Assessment of the Aortic Pressure Wave: Development And Testing Using In Silico and In Vivo Data, King's College London

1 Oct 2016 → 1 Jul 2020

Award Date: 1 Jul 2020

Biomedical Engineering, Master of Research, Non-invasive, MRI-based calculation of the aortic blood pressure waveform using computational fluid dynamics, King's College London

1 Oct 2015 → 30 Sept 2016

Award Date: 30 Sept 2016

Aeronautical Engineering, Master of Engineering, Blood flow simulation in arterial networks, Imperial College London

1 Oct 2011 → 30 Jun 2015

Award Date: 30 Jun 2015

## Employment

### Research output

#### **Altered Aortic Hemodynamics and Relative Pressure in Patients with Dilated Cardiomyopathy**

Marlevi, D., Mariscal-Harana, J., Burris, N. S., Sotelo, J., Ruijsink, B., Hadjicharalambous, M., Asner, L., Sammut, E., Chabiniok, R., Uribe, S., Winter, R., Lamata, P., Alastruey, J. & Nordsletten, D., 9 Dec 2021, (E-pub ahead of print) In: *Journal of cardiovascular translational research*.

#### **Novel Pressure Wave Separation Analysis for Cardiovascular Function Assessment Highlights Major Role of Aortic Root**

Vennin, S., Li, Y., Mariscal Harana, J., Charlton, P., Fok, H., Gu, H., Chowienczyk, P. & Alastruey, J., 12 Nov 2021, (E-pub ahead of print) In: *IEEE Transactions on Biomedical Engineering*. PP

#### **Estimating central blood pressure from aortic flow: Development and assessment of algorithms**

Mariscal Harana, J., Charlton, P., Vennin, S., Aramburu, J., Florkow, M. C., van Engelen, A., Schneider, T., de Bliet, H., Ruijsink, B., Valverde, I., Beerbaum, P., Grotenhuis, H., Charakida, M., Chowienczyk, P., Sherwin, S. J., Alastruey, J. & Mariscal Harana, J., 1 Feb 2021, In: *American journal of physiology. Heart and circulatory physiology*. 320, 2, p. H494-H510

## Activities