

Dr Fiona Malone	
Department	Mechanical and Industrial Engineering (BIOMEDICAL)
Campus	Dublin Road
Email	Fiona.malone@gmit.ie
Tel	
Research Interest	Acute ischemic stroke, cerebral haemodynamics, biomechanics, biosimulators, women's health.
Publications	<p>Lyashevskaja O, Malone F, MacCarthy E, Fiehler J, Buhk J-H, Morris L. Class imbalance in gradient boosting classification algorithms: Application to experimental stroke data. <i>Statistical Methods in Medical Research</i>. December 2021. doi:10.1177/0962280220980484</p> <p>Malone F, McCarthy E, Delassus P, Buhk J-H, Fiehler J, Morris L. An in vitro assessment of atrial fibrillation flow types on cardiogenic emboli trajectory paths. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i>. 2020;234(12):1421-1431. doi:10.1177/0954411920946873</p> <p>Malone, F., McCarthy, E., Delassus, P., Buhk, JH., Fiehler, J., Morris L., Investigation of the Hemodynamics Influencing Emboli Trajectories Through a Patient-Specific Aortic Arch Model, <i>Stroke</i>, STROKEAHA. 118.023581.</p> <p>Malone, F., McCarthy, E., Delassus, P., Buhk, JH., Fiehler, J., Morris L. Embolus Analog Trajectory Paths Under Physiological Flowrates Through Patient-Specific Aortic Arch Models, <i>Journal of biomechanical engineering</i>, 141 (10), 2019.</p> <p>Malone, F., McCarthy E., Delassus, P., Fahy, P., Kennedy, J., Fagan, A.J., Morris, L., The mechanical characterisation of bovine embolus analogues under various loading conditions, <i>Cardiovascular Engineering and Technology</i>, 9 (3), 489-502, 2018.</p> <p>Fahy P, Malone F, McCarthy E, McCarthy P, Thornton J, Brennan P, O'Hare A, Looby S, Sultan S, Hynes N, Morris L. An <i>In vitro</i> Evaluation of Emboli Trajectories Within a Three-Dimensional Physical Model of the Circle of Willis Under Cerebral Blood Flow Conditions, <i>Annals of Biomedical Engineering</i>, 2015; 43(9):2265-78.</p>