

Christopher M Haggerty

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,841
citations

159358

30
h-index

205818

48
g-index

76
all docs

76
docs citations

76
times ranked

4155
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Genome-wide association and Mendelian randomisation analysis provide insights into the pathogenesis of heart failure. <i>Nature Communications</i> , 2020, 11, 163. | 5.8 | 466 |
| 2 | Prediction of mortality from 12-lead electrocardiogram voltage data using a deep neural network. <i>Nature Medicine</i> , 2020, 26, 886-891. | 15.2 | 168 |
| 3 | Routinely reported ejection fraction and mortality in clinical practice: where does the nadir of risk lie?. <i>European Heart Journal</i> , 2020, 41, 1249-1257. | 1.0 | 167 |
| 4 | Association Between Titin Loss-of-Function Variants and Early-Onset Atrial Fibrillation. <i>JAMA - Journal of the American Medical Association</i> , 2018, 320, 2354. | 3.8 | 144 |
| 5 | Deep Neural Networks Can Predict New-Onset Atrial Fibrillation From the 12-Lead ECG and Help Identify Those at Risk of Atrial Fibrillation-Related Stroke. <i>Circulation</i> , 2021, 143, 1287-1298. | 1.6 | 134 |
| 6 | Predicting Survival From Large-Echocardiography and Electronic-Health-Record Datasets. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 681-689. | 2.3 | 101 |
| 7 | Genomics-First Evaluation of Heart Disease Associated With Titin-Truncating Variants. <i>Circulation</i> , 2019, 140, 42-54. | 1.6 | 97 |
| 8 | Fontan hemodynamics from 100 patient-specific cardiac magnetic resonance studies: A computational fluid dynamics analysis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 1481-1489. | 0.4 | 86 |
| 9 | Analysis of rare genetic variation underlying cardiometabolic diseases and traits among 200,000 individuals in the UK Biobank. <i>Nature Genetics</i> , 2022, 54, 240-250. | 9.4 | 68 |
| 10 | Cardiac remodeling and dysfunction in childhood obesity: a cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 28. | 1.6 | 62 |
| 11 | Smooth Muscle Cell Deletion of Low-Density Lipoprotein Receptor-Related Protein 1 Augments Angiotensin II-Induced Superior Mesenteric Arterial and Ascending Aortic Aneurysms. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 155-162. | 1.1 | 60 |
| 12 | Geometric Characterization of Patient-Specific Total Cavopulmonary Connections and its Relationship to Hemodynamics. <i>JACC: Cardiovascular Imaging</i> , 2014, 7, 215-224. | 2.3 | 59 |
| 13 | Experimental and numeric investigation of Impella pumps as cavopulmonary assistance for a failing Fontan. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012, 144, 563-569. | 0.4 | 53 |
| 14 | Comparing Pre- and Post-operative Fontan Hemodynamic Simulations: Implications for the Reliability of Surgical Planning. <i>Annals of Biomedical Engineering</i> , 2012, 40, 2639-2651. | 1.3 | 52 |
| 15 | Individualized computer-based surgical planning to address pulmonary arteriovenous malformations in patients with a single ventricle with an interrupted inferior vena cava and azygous continuation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2011, 141, 1170-1177. | 0.4 | 48 |
| 16 | Numerical, Hydraulic, and Hemolytic Evaluation of an Intravascular Axial Flow Blood Pump to Mechanically Support Fontan Patients. <i>Annals of Biomedical Engineering</i> , 2011, 39, 324-336. | 1.3 | 47 |
| 17 | Visualization of flow structures in Fontan patients using 3-dimensional phase contrast magnetic resonance imaging. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012, 143, 1108-1116. | 0.4 | 45 |
| 18 | Hemodynamic Modeling of Surgically Repaired Coarctation of the Aorta. <i>Cardiovascular Engineering and Technology</i> , 2011, 2, 288-295. | 0.7 | 44 |

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|----|---|------|-----------|
| 19 | A Machine Learning Approach to Management of Heart Failure Populations. <i>JACC: Heart Failure</i> , 2020, 8, 578-587. | 1.9 | 44 |
| 20 | Electronic health record phenotype in subjects with genetic variants associated with arrhythmogenic right ventricular cardiomyopathy: a study of 30,716 subjects with exome sequencing. <i>Genetics in Medicine</i> , 2017, 19, 1245-1252. | 1.1 | 43 |
| 21 | Preliminary clinical experience with a bifurcated Y-graft Fontan procedure—A feasibility study. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012, 144, 383-389. | 0.4 | 42 |
| 22 | Prevalence and Electronic Health Record-Based Phenotype of Loss-of-Function Genetic Variants in Arrhythmogenic Right Ventricular Cardiomyopathy-Associated Genes. <i>Circulation Genomic and Precision Medicine</i> , 2019, 12, e002579. | 1.6 | 42 |
| 23 | A genome-first approach to aggregating rare genetic variants in LMNA for association with electronic health record phenotypes. <i>Genetics in Medicine</i> , 2020, 22, 102-111. | 1.1 | 42 |
| 24 | Simulating hemodynamics of the Fontan Y-graft based on patient-specific in vivo connections. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013, 145, 663-670. | 0.4 | 39 |
| 25 | Patients with repaired tetralogy of Fallot suffer from intra- and inter-ventricular cardiac dyssynchrony: a cardiac magnetic resonance study. <i>European Heart Journal Cardiovascular Imaging</i> , 2014, 15, 1333-1343. | 0.5 | 36 |
| 26 | Left and right ventricular dyssynchrony and strains from cardiovascular magnetic resonance feature tracking do not predict deterioration of ventricular function in patients with repaired tetralogy of Fallot. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 49. | 1.6 | 36 |
| 27 | Energetic Implications of Vessel Growth and Flow Changes Over Time in Fontan Patients. <i>Annals of Thoracic Surgery</i> , 2015, 99, 163-170. | 0.7 | 35 |
| 28 | Fontan Pathway Growth: A Quantitative Evaluation of Lateral Tunnel and Extracardiac Cavopulmonary Connections Using Serial Cardiac Magnetic Resonance. <i>Annals of Thoracic Surgery</i> , 2014, 97, 916-922. | 0.7 | 32 |
| 29 | Reproducibility of cine displacement encoding with stimulated echoes (DENSE) cardiovascular magnetic resonance for measuring left ventricular strains, torsion, and synchrony in mice. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 71. | 1.6 | 31 |
| 30 | Obesity reduces left ventricular strains, torsion, and synchrony in mouse models: a cine displacement encoding with stimulated echoes (DENSE) cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 109. | 1.6 | 30 |
| 31 | Can time-averaged flow boundary conditions be used to meet the clinical timeline for Fontan surgical planning?. <i>Journal of Biomechanics</i> , 2017, 50, 172-179. | 0.9 | 29 |
| 32 | Association between left ventricular mechanics and diffuse myocardial fibrosis in patients with repaired Tetralogy of Fallot: a cross-sectional study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017, 19, 100. | 1.6 | 29 |
| 33 | Deep-learning-assisted analysis of echocardiographic videos improves predictions of all-cause mortality. <i>Nature Biomedical Engineering</i> , 2021, 5, 546-554. | 11.6 | 29 |
| 34 | Comparison of left ventricular strains and torsion derived from feature tracking and DENSE CMR. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018, 20, 63. | 1.6 | 28 |
| 35 | Validation of in vivo 2D displacements from spiral cine DENSE at 3T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 5. | 1.6 | 24 |
| 36 | Right Ventricular Strain, Torsion, and Dyssynchrony in Healthy Subjects Using 3D Spiral Cine DENSE Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1076-1085. | 5.4 | 23 |

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|----|--|-----|-----------|
| 37 | rECHOmmend: An ECG-Based Machine Learning Approach for Identifying Patients at Increased Risk of Undiagnosed Structural Heart Disease Detectable by Echocardiography. <i>Circulation</i> , 2022, 146, 36-47. | 1.6 | 21 |
| 38 | Relationship of Single Ventricle Filling and Preload to Total Cavopulmonary Connection Hemodynamics. <i>Annals of Thoracic Surgery</i> , 2015, 99, 911-917. | 0.7 | 20 |
| 39 | SURGEM: A solid modeling tool for planning and optimizing pediatric heart surgeries. <i>CAD Computer Aided Design</i> , 2016, 70, 3-12. | 1.4 | 20 |
| 40 | Treatment planning for a TCPC test case: A numerical investigation under rigid and moving wall assumptions. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013, 29, 197-216. | 1.0 | 19 |
| 41 | Telemetric Blood Pressure Assessment in Angiotensin II-Infused ApoE ^{-/-} Mice: 28 Day Natural History and Comparison to Tail-Cuff Measurements. <i>PLoS ONE</i> , 2015, 10, e0130723. | 1.1 | 16 |
| 42 | Numerical and experimental investigation of pulsatile hemodynamics in the total cavopulmonary connection. <i>Journal of Biomechanics</i> , 2013, 46, 373-382. | 0.9 | 15 |
| 43 | Simplified post processing of cine DENSE cardiovascular magnetic resonance for quantification of cardiac mechanics. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, 94. | 1.6 | 15 |
| 44 | Clinical Findings and Diagnostic Yield of Arrhythmogenic Cardiomyopathy Through Genomic Screening of Pathogenic or Likely Pathogenic Desmosome Gene Variants. <i>Circulation Genomic and Precision Medicine</i> , 2021, 14, e003302. | 1.6 | 14 |
| 45 | Monogenic and Polygenic Contributions to QTc Prolongation in the Population. <i>Circulation</i> , 2022, 145, 1524-1533. | 1.6 | 14 |
| 46 | The genetic architecture of Plakophilin 2 cardiomyopathy. <i>Genetics in Medicine</i> , 2021, 23, 1961-1968. | 1.1 | 13 |
| 47 | Laser Flow Measurements in an Idealized Total Cavopulmonary Connection With Mechanical Circulatory Assistance. <i>Artificial Organs</i> , 2011, 35, 1052-1064. | 1.0 | 12 |
| 48 | Managing Secondary Genomic Findings Associated With Arrhythmogenic Right Ventricular Cardiomyopathy. <i>Circulation Genomic and Precision Medicine</i> , 2018, 11, e002237. | 1.6 | 11 |
| 49 | Haemodynamic comparison of a novel flow-divider Optiflo geometry and a traditional total cavopulmonary connection. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2013, 17, 1-7. | 0.5 | 10 |
| 50 | Quantification of left ventricular volumes, mass, and ejection fraction using cine displacement encoding with stimulated echoes (DENSE) MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 398-406. | 1.9 | 10 |
| 51 | Left ventricular mechanical dysfunction in diet-induced obese mice is exacerbated during inotropic stress: a cine DENSE cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 75. | 1.6 | 10 |
| 52 | Hemodynamic Impact of Superior Vena Cava Placement in the Y-Graft Fontan Connection. <i>Annals of Thoracic Surgery</i> , 2016, 101, 183-189. | 0.7 | 10 |
| 53 | Uniquely shaped cardiovascular stents enhance the pressure generation of intravascular blood pumps. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012, 144, 704-709. | 0.4 | 9 |
| 54 | 2D cine DENSE with low encoding frequencies accurately quantifies cardiac mechanics with improved image characteristics. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 93. | 1.6 | 9 |

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|----|---|-----|-----------|
| 55 | An interactive videogame designed to improve respiratory navigator efficiency in children undergoing cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 54. | 1.6 | 9 |
| 56 | Genetic counseling for patients with positive genomic screening results: Considerations for when the genetic test comes first. <i>Journal of Genetic Counseling</i> , 2021, 30, 634-644. | 0.9 | 9 |
| 57 | Left ventricular and atrial segmentation of 2D echocardiography with convolutional neural networks. , 2020, , . | | 9 |
| 58 | Loss-of-Function <i>FLNC</i> Variants Are Associated With Arrhythmogenic Cardiomyopathy Phenotypes When Identified Through Exome Sequencing of a General Clinical Population. <i>Circulation Genomic and Precision Medicine</i> , 2022, 15, . | 1.6 | 8 |
| 59 | Rare Coding Variants Associated With Electrocardiographic Intervals Identify Monogenic Arrhythmia Susceptibility Genes: A Multi-Ancestry Analysis. <i>Circulation Genomic and Precision Medicine</i> , 2021, 14, e003300. | 1.6 | 7 |
| 60 | Of mice (dogs) and men: getting to the heart of obesity-associated cardiac dysfunction. <i>Diabetologia</i> , 2016, 59, 9-12. | 2.9 | 4 |
| 61 | Assessing the generalizability of temporally coherent echocardiography video segmentation. , 2021, , . | | 4 |
| 62 | 3D-Encoded DENSE MRI with Zonal Excitation for Quantifying Biventricular Myocardial Strain During a Breath-Hold. <i>Cardiovascular Engineering and Technology</i> , 2021, , 1. | 0.7 | 4 |
| 63 | Genomic Screening for Pathogenic Transthyretin Variants Finds Evidence of Underdiagnosed Amyloid Cardiomyopathy From Health Records. <i>JACC: CardioOncology</i> , 2021, 3, 550-561. | 1.7 | 4 |
| 64 | Generalizability and quality control of deep learning-based 2D echocardiography segmentation models in a large clinical dataset. <i>International Journal of Cardiovascular Imaging</i> , 2022, 38, 1685-1697. | 0.7 | 4 |
| 65 | Using a respiratory navigator significantly reduces variability when quantifying left ventricular torsion with cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017, 19, 25. | 1.6 | 3 |
| 66 | Rad GTPase Deletion Attenuates Post-Ischemic Cardiac Dysfunction and Remodeling. <i>JACC Basic To Translational Science</i> , 2018, 3, 83-96. | 1.9 | 3 |
| 67 | Magnetic resonance imaging-guided surgical design: can we optimise the Fontan operation?. <i>Cardiology in the Young</i> , 2013, 23, 818-823. | 0.4 | 2 |
| 68 | Optimal configuration of respiratory navigator gating for the quantification of left ventricular strain using spiral cine displacement encoding with stimulated echoes (DENSE) MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 786-794. | 1.9 | 2 |
| 69 | Typical readout durations in spiral cine DENSE yield blurred images and underestimate cardiac strains at both 3.0T and 1.5T. <i>Magnetic Resonance Imaging</i> , 2018, 54, 90-100. | 1.0 | 2 |
| 70 | Pulsatile Hemodynamics of the Fontan Connection: A Tri-Modal Investigation. , 2011, , . | | 1 |
| 71 | High resolution cine displacement encoding with stimulated echoes (DENSE) at 3T with navigator feedback for quantification of cardiac mechanics. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, P48. | 1.6 | 1 |