

# Christopher M Haggerty

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

1,531

citations

26

h-index

37

g-index

76

ext. papers

2,228

ext. citations

7.3

avg, IF

4.25

L-index

#	Paper	IF	Citations
68	Analysis of rare genetic variation underlying cardiometabolic diseases and traits among 200,000 individuals in the UK Biobank.. <i>Nature Genetics</i> , <b>2022</b> ,	36.3	4
67	Generalizability and quality control of deep learning-based 2D echocardiography segmentation models in a large clinical dataset.. <i>International Journal of Cardiovascular Imaging</i> , <b>2022</b> , 1	2.5	0
66	Genomic Screening for Pathogenic Transthyretin Variants Finds Evidence of Underdiagnosed Amyloid Cardiomyopathy From Health Records. <i>JACC: CardioOncology</i> , <b>2021</b> , 3, 550-561	3.8	1
65	Genetic counseling for patients with positive genomic screening results: Considerations for when the genetic test comes first. <i>Journal of Genetic Counseling</i> , <b>2021</b> , 30, 634-644	2.5	1
64	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> , <b>2021</b> , 143, 1287-1298	16.7	33
63	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> , <b>2021</b> , 14, e003302	5.2	4
62	The genetic architecture of Plakophilin 2 cardiomyopathy. <i>Genetics in Medicine</i> , <b>2021</b> , 23, 1961-1968	8.1	2
61	3D-Encoded DENSE MRI with Zonal Excitation for Quantifying Biventricular Myocardial Strain During a Breath-Hold. <i>Cardiovascular Engineering and Technology</i> , <b>2021</b> , 1	2.2	3
60	Deep-learning-assisted analysis of echocardiographic videos improves predictions of all-cause mortality. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 546-554	19	10
59	Assessing the generalizability of temporally coherent echocardiography video segmentation <b>2021</b> ,		2
58	Rare Coding Variants Associated With Electrocardiographic Intervals Identify Monogenic Arrhythmia Susceptibility Genes: A Multi-Ancestry Analysis. <i>Circulation Genomic and Precision Medicine</i> , <b>2021</b> , 14, e003300	5.2	0
57	Prediction of mortality from 12-lead electrocardiogram voltage data using a deep neural network. <i>Nature Medicine</i> , <b>2020</b> , 26, 886-891	50.5	61
56	Routinely reported ejection fraction and mortality in clinical practice: where does the nadir of risk lie?. <i>European Heart Journal</i> , <b>2020</b> , 41, 1249-1257	9.5	69
55	Left ventricular and atrial segmentation of 2D echocardiography with convolutional neural networks <b>2020</b> ,		2
54	A Machine Learning Approach to Management of Heart Failure Populations. <i>JACC: Heart Failure</i> , <b>2020</b> , 8, 578-587	7.9	19
53	Genome-wide association and Mendelian randomisation analysis provide insights into the pathogenesis of heart failure. <i>Nature Communications</i> , <b>2020</b> , 11, 163	17.4	140
52	A genome-first approach to aggregating rare genetic variants in LMNA for association with electronic health record phenotypes. <i>Genetics in Medicine</i> , <b>2020</b> , 22, 102-111	8.1	21

51	Genomics-First Evaluation of Heart Disease Associated With Titin-Truncating Variants. <i>Circulation</i> , <b>2019</b> , 140, 42-54	16.7	46
50	Predicting Survival From Large Echocardiography and Electronic Health Record Datasets: Optimization With Machine Learning. <i>JACC: Cardiovascular Imaging</i> , <b>2019</b> , 12, 681-689	8.4	52
49	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> , <b>2019</b> , 12, e002579	5.2	20
48	Rad GTPase deletion attenuates post-ischemic cardiac dysfunction and remodeling. <i>JACC Basic To Translational Science</i> , <b>2018</b> , 3, 83-96	8.7	3
47	Typical readout durations in spiral cine DENSE yield blurred images and underestimate cardiac strains at both 3.0 T and 1.5 T. <i>Magnetic Resonance Imaging</i> , <b>2018</b> , 54, 90-100	3.3	2
46	Association Between Titin Loss-of-Function Variants and Early-Onset Atrial Fibrillation. <i>JAMA - Journal of the American Medical Association</i> , <b>2018</b> , 320, 2354-2364	27.4	75
45	Comparison of left ventricular strains and torsion derived from feature tracking and DENSE CMR. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 63	6.9	20
44	Managing Secondary Genomic Findings Associated With Arrhythmogenic Right Ventricular Cardiomyopathy: Case Studies and Proposal for Clinical Surveillance. <i>Circulation Genomic and Precision Medicine</i> , <b>2018</b> , 11, e002237	5.2	11
43	Right Ventricular Strain, Torsion, and Dyssynchrony in Healthy Subjects Using 3D Spiral Cine DENSE Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 1076-1085	11.7	18
42	Using a respiratory navigator significantly reduces variability when quantifying left ventricular torsion with cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2017</b> , 19, 25	6.9	2
41	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> , <b>2017</b> , 19, 1245-1252	8.1	33
40	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> , <b>2017</b> , 19, 100	6.9	16
39	Can time-averaged flow boundary conditions be used to meet the clinical timeline for Fontan surgical planning?. <i>Journal of Biomechanics</i> , <b>2017</b> , 50, 172-179	2.9	27
38	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> , <b>2017</b> , 45, 786-794	5.6	2
37	An interactive videogame designed to improve respiratory navigator efficiency in children undergoing cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2016</b> , 18, 54	6.9	8
36	Cardiac remodeling and dysfunction in childhood obesity: a cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2016</b> , 18, 28	6.9	42
35	Of mice (dogs) and men: getting to the heart of obesity-associated cardiac dysfunction. <i>Diabetologia</i> , <b>2016</b> , 59, 9-12	10.3	2
34	SURGEM: A solid modeling tool for planning and optimizing pediatric heart surgeries. <i>CAD Computer Aided Design</i> , <b>2016</b> , 70, 3-12	2.9	16

33	Hemodynamic Impact of Superior Vena Cava Placement in the Y-Graft Fontan Connection. <i>Annals of Thoracic Surgery</i> , <b>2016</b> , 101, 183-9	2.7	6
32	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> , <b>2016</b> , 18, 49	6.9	29
31	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> , <b>2015</b> , 35, 155-62	9.4	43
30	Relationship of single ventricle filling and preload to total cavopulmonary connection hemodynamics. <i>Annals of Thoracic Surgery</i> , <b>2015</b> , 99, 911-7	2.7	16
29	Validation of in vivo 2D displacements from spiral cine DENSE at 3T. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2015</b> , 17, 5	6.9	22
28	Energetic implications of vessel growth and flow changes over time in Fontan patients. <i>Annals of Thoracic Surgery</i> , <b>2015</b> , 99, 163-70	2.7	28
27	2D cine DENSE with low encoding frequencies accurately quantifies cardiac mechanics with improved image characteristics. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2015</b> , 17, 93	6.9	9
26	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> , <b>2015</b> , 17, 75	6.9	7
25	Telemetric Blood Pressure Assessment in Angiotensin II-Infused ApoE <sup>-/-</sup> Mice: 28 Day Natural History and Comparison to Tail-Cuff Measurements. <i>PLoS ONE</i> , <b>2015</b> , 10, e0130723	3.7	10
24	Fontan hemodynamics from 100 patient-specific cardiac magnetic resonance studies: a computational fluid dynamics analysis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2014</b> , 148, 1481-9	1.5	57
23	Geometric characterization of patient-specific total cavopulmonary connections and its relationship to hemodynamics. <i>JACC: Cardiovascular Imaging</i> , <b>2014</b> , 7, 215-24	8.4	49
22	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> , <b>2014</b> , 15, 1333-43	4.1	33
21	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> , <b>2014</b> , 40, 398-406	5.6	9
20	Simplified post processing of cine DENSE cardiovascular magnetic resonance for quantification of cardiac mechanics. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2014</b> , 16, 94	6.9	14
19	Fontan pathway growth: a quantitative evaluation of lateral tunnel and extracardiac cavopulmonary connections using serial cardiac magnetic resonance. <i>Annals of Thoracic Surgery</i> , <b>2014</b> , 97, 916-22	2.7	23
18	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> , <b>2013</b> , 29, 197-216	2.6	18
17	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> , <b>2013</b> , 15, 71	6.9	29
16	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> , <b>2013</b> , 15, 109	6.9	27

15	INCREASED POWER LOSS IN THE TOTAL CAVOPULMONARY CONNECTION IS RELATED TO DECREASED SINGLE VENTRICLE VOLUME. <i>Journal of the American College of Cardiology</i> , <b>2013</b> , 61, E491	15.1	2
14	Numerical and experimental investigation of pulsatile hemodynamics in the total cavopulmonary connection. <i>Journal of Biomechanics</i> , <b>2013</b> , 46, 373-82	2.9	13
13	Simulating hemodynamics of the Fontan Y-graft based on patient-specific in vivo connections. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2013</b> , 145, 663-70	1.5	33
12	Haemodynamic comparison of a novel flow-divider Optiflo geometry and a traditional total cavopulmonary connection. <i>Interactive Cardiovascular and Thoracic Surgery</i> , <b>2013</b> , 17, 1-7	1.8	7
11	Magnetic resonance imaging-guided surgical design: can we optimise the Fontan operation?. <i>Cardiology in the Young</i> , <b>2013</b> , 23, 818-23	1	1
10	Visualization of flow structures in Fontan patients using 3-dimensional phase contrast magnetic resonance imaging. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2012</b> , 143, 1108-16	1.5	38
9	Comparing pre- and post-operative Fontan hemodynamic simulations: implications for the reliability of surgical planning. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 2639-51	4.7	42
8	Uniquely shaped cardiovascular stents enhance the pressure generation of intravascular blood pumps. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2012</b> , 144, 704-9	1.5	7
7	Experimental and numeric investigation of Impella pumps as cavopulmonary assistance for a failing Fontan. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2012</b> , 144, 563-9	1.5	39
6	Preliminary clinical experience with a bifurcated Y-graft Fontan procedure--a feasibility study. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2012</b> , 144, 383-9	1.5	31
5	Laser flow measurements in an idealized total cavopulmonary connection with mechanical circulatory assistance. <i>Artificial Organs</i> , <b>2011</b> , 35, 1052-64	2.6	11
4	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> , <b>2011</b> , 141, 1170-7	1.5	38
3	Numerical, hydraulic, and hemolytic evaluation of an intravascular axial flow blood pump to mechanically support Fontan patients. <i>Annals of Biomedical Engineering</i> , <b>2011</b> , 39, 324-36	4.7	36
2	Hemodynamic Modeling of Surgically Repaired Coarctation of the Aorta. <i>Cardiovascular Engineering and Technology</i> , <b>2011</b> , 2, 288-295	2.2	34
1	Pulsatile Hemodynamics of the Fontan Connection: A Tri-Modal Investigation <b>2011</b> ,		1