

TINA YAO

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London, UK

github.com/Ti-Yao

EDUCATION

2021 - present	PhD, Centre for Doctoral Training in AI-enabled Healthcare Funded by UKRI	University College London
2020 - 2021	MRes, Centre for Doctoral Training in AI-enabled Healthcare Distinction, Top 5% of the Faculty	University College London
2016 - 2020	MSci Physics First Class, 81%. Year abroad in University of Melbourne, Australia	University College London

PUBLICATIONS

2024	A machine learning algorithm for creating isotropic 3D aortic segmentations from routine cardiac MR localizers <i>Yue Jiang, Karan Punjabi, Iain Pierce, Daniel Knight, Tina Yao, Jennifer Steeden, Alun D Hughes, Vivek Muthurangu, Rhodri Davies</i> Magnetic Resonance Imaging
2024	Image2Flow: A hybrid image and graph convolutional neural network for rapid patient-specific pulmonary artery segmentation and CFD flow field calculation from 3D cardiac MRI data <i>Tina Yao, Endrit Pajaziti, Michael Quail, Silvia Schievano, Jennifer A Steeden, Vivek Muthurangu</i> PLOS Computational Biology
2023	A deep learning pipeline for assessing ventricular volumes from a cardiac MRI registry of patients with single ventricle physiology <i>Tina Yao, Nicole St. Clair, Gabriel F Miller, Adam L Dorfman, Mark A Fogel, Sunil Ghelani, Rajesh Krishnamurthy, Christopher Z Lam, Michael Quail, Joshua D Robinson, David Schidlow, Timothy C Slesnick, Justin Weigand, Jennifer A Steeden, Rahul H Rathod, Vivek Muthurangu</i> Radiology: Artificial Intelligence
2022	Physical mechanisms of ESCRT-III-driven cell division <i>Lena Harker-Kirschneck, Anne E Hafner, Tina Yao, Christian Vanhille-Campos, Xiuyun Jiang, Andre Pulschen, Fredrik Hurtig, Dawid Hryniuk, Siân Culley, Ricardo Henriques, Buzz Baum, Anđela Šarić</i> Proceedings of the National Academy of Sciences

EXPERIENCE

2024	Journal Article Reviewer	Journal of Cardiovascular Magnetic Resonance
2021 - present	Postgraduate Teaching Assistant <ul style="list-style-type: none">Taught three MSc health data science courses in Python, machine learning, and SQL.Guest lecturer for the Machine Learning in Healthcare course.Created a marking software for Institute of Cardiovascular Science modules.	University College London
2023-present	Project Supervisor <ul style="list-style-type: none">Co-supervised seven iBSc, two MSc students in the Institute of Cardiovascular Science on machine learning in cardiac MRI projects	University College London
2024-present	Marking Assistant <ul style="list-style-type: none">Help to mark code scripts for Learn2Discover, an online training course in Python programming and machine learning for biosciences.	Learn2Discover
2021	Student Outreach Project Supervisor <ul style="list-style-type: none">Created and supervised a health data science research project for a year 12 student.	Nuffield Research Placement
2020	Summer Research Intern <ul style="list-style-type: none">Conducted independent research to model cell division using molecular dynamics software.	Institute for the Physics of Living Systems

CONFERENCES

2024	Oral Presentation	International Society for Magnetic Resonance in Medicine
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2024	Rapid-fire Presentation	Society for Cardiac Magnetic Resonance
2023	Digital Poster	International Society for Magnetic Resonance in Medicine

AWARDS

2024	ISMRM Magna Cum Laude Top 15% of abstracts at ISMRM	International Society for Magnetic Resonance in Medicine
2021	Dean's List Top 5% in the Faculty of Population Health Sciences	University College London
2020	Brian Duff Memorial Prize Award Best 4th year Project in MSci Physics at UCL	University College London

LANGUAGES

English - native, **Mandarin** - intermediate