

Timothy Lo

Researcher · Developer · Medical Imaging · Artificial Intelligence

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Education

Ph.D. in Medical Physics and Biomedical Engineering 2023 - Present
University College London
In Progress

M.Res. in Artificial Intelligence and Machine Learning 2022 - 2023
Imperial College London
Distinction

B.Sc. in Computer Science 2019 - 2022
King's College London
First Class Honours

Publications

Journal Article

Upright radiotherapy for breast cancer: a pre-clinical study considering photon and proton beam access, plus arm positioning
Frontiers in Oncology, Vol. 15
2025 · DOI: 10.3389/fonc.2025.1668109

Conference Presentations

ESTRO 2026 (Oral Presentation - Proffered Paper, 2026 (Pending))
Respiratory Motion Analysis for the Thoracic Region in the Upright and Supine Postures

ESTRO 2026 (Poster Presentation, 2026 (Pending))
Anatomical Analyses for the Prostate Region in Upright and Supine Postures

Upright Consortium 2026 (Oral Presentation, 2026 (Pending))
A Standardised Geometric Framework for Quantifying Anatomical Variation Between Upright and Supine Radiotherapy

AAPM 2025 (Poster Presentation, 2025)
A Deformable Registration-based Pipeline for the Characterisation of Respiratory Motion from 2D Lung Cine MRI

ESTRO 2025 (Oral Presentation - Poster Discussion, 2025)
A Low-cost, Flexible, and Accurate Technique to Study New Immobilisation Systems for Radiotherapy and their Associated Positional Reproducibility/Stability

Upright Consortium 2024 (Oral Presentation - Proffered Mini Oral Presentation, 2024)
Computer Vision-based Marker Detection for Quantitative Assessment of Upright Position Reproducibility

Professional Experience

Post Graduate Teaching Assistant

Sep 2024 - Current

University College London, United Kingdom

- Preparing and delivering course material.
 - Exam and coursework marking.
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Coding Instructor

Feb 2024 - Feb 2025

Code Kids Robotics Ltd., United Kingdom

- Hosted weekly online teaching sessions.
 - Taught in 5-day camps with intensive teaching blocks.
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Programming Tutor

Sep 2023 - Current

Online - United Kingdom

- Hosted weekly online teaching sessions.
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Software Engineer

Apr 2022 - Jul 2022

Pawsible, Hong Kong

- Delivered a proof of concept application that communicates with a sensory device that takes in vital readings.
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Robotics Club Chairman

Sep 2016 - Sep 2018

HKCCCU Logos Academy, Hong Kong

- Lead and took part in a team to win two World Championships in Robofest GRAF 2017.
 - Facilitated more teams to win 1st and 2nd runner ups in Robofest 2017 and 2018.
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Technical Skills

Programming: Python, JavaScript / TypeScript, C / C++, SQL

Libraries: NumPy / Pandas, PyTorch, Scikit-learn, TensorFlow, Matplotlib / Seaborn, Manim

Tools: Jupyter, React.JS, Next.JS, Node.JS, REST API, Firebase, Git / GitHub, Linux / Bash, LaTeX, Adobe Creative Suite, Google Cloud Computing

Domains: Machine Learning, Deep Learning, Computer Vision, Image Processing, NLP, Statistical Analysis, Data Visualisation, Software Engineering, Mobile Development, Web Development, Research Methods, Scientific Writing