Woo-Jin Cho Kim

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Personal Data

EMAIL: woojinchokimm@hotmail.com
HOMEPAGE: woojinchokimm.github.io
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Work Experience

Current
March 2022

Deep Learning Scientist at Ultromics Ltd, Oxford, UK
AI and Computer Vision
Developed and validated models for zero variability and fully reproducible echocardiographic view classification. Experimented with multi-task and contrastive learning methods for multi-output tasks.

Jan 2022
Sept 2021

Research Intern at Ultromics Ltd, Oxford, UK
AI and Computer Vision
Developed aleatoric uncertainty quantification for left-ventricle segmentation models. Enhanced cardiac amyloidosis model predictions via test-time augmentation.

Education

Aug 2023
Sept 2017

Doctor of Philosophy in AI Enabled Medical Imaging
King's College London
Supervised by Dr. Pablo Lamata and Dr. Andrew King
Thesis topic: Improving echocardiographic diagnostic accuracy

Sept 2017
Sept 2016

Master of Science in Computer Science
Imperial College London
Supervised by Dr. Panos Parpas

Sept 2015
Sept 2012

Bachelor of Arts in Engineering
King's College London
Supervised by Dr. Oleg Aslanidi

Selected Publications

1. Bransby K., Beqiri A., Cho Kim W.J., Oliveira J., Chartsias A., Gomez A.. BackMix: Mitigating Shortcut Learning in Echocardiography with Minimal Supervision *MICCAI 2024*
2. Bransby K., Beqiri A., Cho Kim W.J., Oliveira J., Chartsias A., Gomez A.. Multi-Site Class-Incremental Learning with Weighted Experts in Echocardiography *ASMUS 2024*
3. Cho Kim W. J.*, Beqiri A., Lewandowski A. J., Mumith A., Sarwar R., King A. P., Leeson P., Lamata P.. Automated Detection of Apical Foreshortening in Echocardiography Using Statistical Shape Modelling *UMB 2023*
4. Judge T., Bernard O., Cho Kim W. J., Gomez A., Chartsias A., Jodoin P. M.. Asymmetric Contour Uncertainty Estimation for Medical Image Segmentation *MICCAI 2023*
5. Cho Kim W. J.*, Beqiri A., Lewandowski A. J., Puyol-Antón E., Markham D. C., King A. P., Leeson P., Lamata P.. Beyond Simpson's Rule: Accounting for Orientation and Ellipticity Assumptions *UMB 2022*