Woo-Jin Cho Kim

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Personal Data

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Work Experience

Current MARCH 2022	Deep Learning Scientist at Ultromics Ltd, Oxford, UK *AI and Computer Vision* Developed, optimized, and validated deep learning models, including transformers, CNNs, and multi-task architectures, for echocardiographic analysis, with a focus on performance, scalability, robustness, and real-world deployment.
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*