



Prof. Kannie WY Chan is a Professor in the Department of Biomedical Engineering, Electrical Engineering at City University of Hong Kong, and Director of the InnoHK Hong Kong Centre for Cerebro-cardiovascular Health Engineering (COCHE). She is also an Adjunct Professor in the Department of Radiology at Johns Hopkins University School of Medicine (JHMI), where she previously served as Assistant Professor.

Prof. Chan is an internationally recognized scientist in magnetic resonance imaging (MRI), specializing in Chemical Exchange Saturation Transfer (CEST) MRI.

Kannie W.Y. Chan, Ph.D.

She is renowned for developing advanced techniques that visualize and quantify molecular processes *in vivo*. Her innovations include imaging transplanted *cell viability* and *neuropathology* in neurodegenerative diseases, with emphasis on glucose-related brain events (glucoCEST and DGE). Notably, her research has revealed key neuropathological changes in Alzheimer's disease progression, including alterations in *glymphatic function*, *myelin integrity*, and *aquaporin activity*.

Prof. Chan's leadership in the MRI community is widely recognized both internationally and locally. She was awarded the ISMRM Senior Fellow in 2025. She is ranked among Stanford's top 2% most highly cited scientists. Her achievements have been recognized and awarded her the Research Fellowship Scheme (RFS) in 2022/2023 by the Hong Kong Research Grant Council (RGC).

She has published over 100 original research articles, majority in leading and high impact journals in the field, including a cover article in Nature Materials (Cover), Nature Biomedical Engineering, Science Advances, Theranostics, Stroke, J Controlled Release, and many articles in MRI journals (Magnetic Resonance in Medicine, MRM, NMR in Biomedicine, NBM). She serves as the *Deputy Editor* in MRM, overseeing global submissions in CEST and magnetization transfer imaging, and the editorial boards of NBM. Prof. Chan has given over 59 talks globally to promote MRI with 36 talks given in mainland hospitals and research institutions. Beyond research, Prof. Chan contributes to the scientific community by serving as the ISMRM committees (AMPC, YIA, Publication Committee, Workshop & Study Group Review Committee, CEST Study Group Committee), a reviewer for international grant applications and grant applications from RGC. She is also active in professional leadership, serving as the Deputy Chair of HKIE Biomedical Division in sessions 22/23, 23/24 and 25/26, and is a HKIE Council member.