



# Chensu Xie

## Memorial Sloan Kettering Cancer Center, USA

Dr. Chensu Xie attended Hong Kong University of Science and Technology (HKUST) for a Bachelor's degree in biochemistry. At HKUST, Chensu joined Dr. Mingjie Zhang's lab, a member of Chinese Academy of Science, where he participated in multiple projects of structural biology to unveil the mysteries of human neurobiology.

After graduating, Chensu was admitted to the M.S. program in computational biology at Carnegie Mellon University (CMU). Working with Dr. Christopher Langmead, he developed a dynamic modeling system for drosophila phototransduction machinery. Chensu then joined Dr. Murphy F. Robert's lab as a research assistant. He quickly realized his endless enthusiasm in machine learning on medical images through the work with multi-modality data for breast cancer grading.

In 2016, Chensu entered the Weill Cornell Graduate School of Medical Sciences to pursue a doctorate in computational biology and medicine. There he did multiple rotation projects including building an image retrieval system from Visual Genome with Dr. Serge Belongie and medication suggestion model with Dr. Yiye Zhang, followed by the most important stage of his academic science career: joining the computational pathology lab of Dr. Thomas J. Fuchs at Memorial Sloan Kettering Cancer Center. With Dr. Fuchs, he developed a novel deep learning approach for cell nuclei detection, a powerful framework for end-to-end whole slide image analysis, as well as extensions and applications of the models to influence the diagnosis, prognosis and treatment of millions of cancer patients over the world.

