Projects for Postgraduate Students

Flexible Surgical Robot/Instrument
In this research direction, we design and study the biomimetic flexible mechanisms and develop novel instruments and/or robotic systems for minimally invasive surgery, single port access surgery and natural orifice transluminal/endoluminal surgery.

Soft Medical Robot/Device
In this research direction, we develop medical robots or devices by employing soft materials to enhance the safety, accessibility, maneuverability, dexterity, etc. during surgery or diagnostic procedure.

Interested candidates please send your CV, a brief research statement and supporting document to postgrad@surgery.cuhk.edu.hk for consideration. Applications are open year round.

Publications:
2. Yuan Han, Chiu Philip Waiyan and Li Zheng, 'Shape-Reconstruction Based Force Sensing Method for Continuum Surgical Robots with Large Deformation', Robotics and Automation Letters (RA-L), May, 2017