Research interests

My research interests include seismic instrumentation, seismometer installation, rotational seismology, and infrasound measurements. During my work at the Institute of Earth Sciences of Academia Sinica in Taiwan, I participated in several projects, e.g., construct and operate seismic stations, develop methods to install posthole seismometer, take charge of calibration and testing seismological instruments, operate satellite communication technology, North fining technology, rotational seismology, infrasound measurement, and promote seismological education in Taiwan.

My academic background is mechanical engineering. Among the areas, I am especially interested in mechanical design, mechatronics, and control theory. Integrate actuator and mechanism and write a human-machine-interface program is my specialty.

My dissertation “Study on the Rotational Sensors in Ground Measurement and Application” primarily focused on rotational sensor calibration and several applications, e.g., investigation of array-derived rotation, rotational motions for teleseismic surface waves, correcting rotation-induced effects on accelerometer, and North finding technique.