

MOK Oi Nam

Email: khalilmok923@gmail.com

Phone: (852) 6222-3944

EDUCATION

The Chinese University of Hong Kong (CUHK)

PhD. in Earth and Environmental Sciences (Field of Study: Seismology)

Aug 2025-Present

B.Sc. in Earth System Science (Geophysics Stream), Minor: Physics

Aug 2020-Jul 2025

- First Class Honours
- **Relevant Coursework:** Earthquake Source Physics, Applied Geophysics, Physics of the Earth, Seismic Data Processing, Rock Mechanics, Soil Mechanics, Signals and Systems

WORK EXPERIENCE

HKO One-year placement programme 2024, The Hong Kong Observatory

Jan 2024-Dec 2024

- Led a Probabilistic Tsunami Hazard Assessment (PTHA) project to quantify hazards linked to Manila Subduction Zone earthquakes, supporting regional risk preparedness.
- Prepared the presentation materials for the 14th South China Sea Tsunami Workshop (SCSTW-14) on the topic "Probabilistic Tsunami Hazard Assessment in Hong Kong: Potential Risk in connection with earthquake activities in Manila Subduction Zone." Utilized methods including Tapered Gutenberg Richter (TGR) distributions, and Monte Carlo simulations to assess regional tsunami hazards.
- Conducted simulations for concurrent storm-tide-tsunami events in Hong Kong, analyzing compound disaster scenarios to enhance early-warning systems.

Summer Research Intern, Earth System Science Programme, CUHK

Jun 2023-Aug 2023

- Undertook a research project focused on temporal variation of earthquake b-values in Turkey region and its implications for seismic hazard assessment, supervised by Professor YANG Hong Feng
- Conducted literature reviews in b-value analysis
- Utilized statistical techniques and software tools to perform data processing and visualization analysis

Summer Intern, Fugro (HK)

Jul 2022-Aug 2022

- Undertook a project related to Natural Terrain Hazard Study (NTHS) under the supervision of senior geologist
- Identified any natural terrain hazards that would affect an existing or a proposed development based on aerial photographs interpretation (API)
- Carried out site visit to collect data on the characteristics of catchment and important facilities at risk

RELEVANT EXPERIENCE

IRIS Seismology Skill Building Workshop, EarthScope

Jun 2023-Sep 2023

- Completed the online Seismology Skill Building Workshop offered by the SAGE Facility operated by EarthScope
- Acquired experiences in using the following tools and technologies: Linux, GMT, SAC, Python, Obspy.
- Enhanced self-efficacy in utilizing seismic data for analysis and interpretation

EXTRA-CURRICULAR ACTIVITIES

Geoscience Ambassadors, Earth System Science Programme, CUHK

Sep 2022- Aug 2023

- Conducted a workshop to introduce basic knowledge on rocks and minerals for a group of 20 secondary school students
- Organized a field trip in Tung Ping Chau for a group of 20 secondary school students

Internal Vice President, The 7th Cabinet of The Society of Earth System Science, CUHK

2021-2022

- Organized activities for members in the society of Earth System Science

SKILLS

Language: Native Cantonese, English and Mandarin

Technical: Familiar with Python, GMT, MATLAB, ArcGIS, QGIS, API, STRESSINVERSE, ZMAP, EqHaz and Linux environment