



# GRADUATE DIVISION OF EARTH & ATMOSPHERIC SCIENCES

## 地球與大氣科學學部

**Earth and Atmospheric Science** is a scientific discipline of critical importance for tackling various major challenges of global and regional concerns in the 21<sup>st</sup> century in relation to the evolution of the Earth system, including global environmental and climate change, exploration of natural and energy resources, hazard reduction, and sustainable development. The Chinese University of Hong Kong is now offering a graduate programme on Earth & Atmospheric Science (EASC) at both M.Phil. and Ph.D. levels. EASC is the only interdisciplinary graduate programme in the region that focuses on critical facets of the basic and applied sciences of the geosphere, atmosphere, hydrosphere, biosphere, and the interaction between them. Research interests of its dynamic faculty span the whole spectrum of Earth system science. The graduate programme aims to educate and mentor outstanding young scientists for careers in academia, government, and the private sector.

### Courses (selected)

Aerosol Physics and Chemistry	Boundary Layer Meteorology and Land-Atmosphere Interaction
Atmospheric Dynamics	Remote Sensing – Principles and Applications
Geomorphology	Rock and Soil Mechanics
Geodynamics	Seismology
Geophysics	Statistical Methods and Data Analysis
Numerical Methods and Modelling	Tropical Meteorology
Petrology	Urban Climatology

### Study Period

Degree	Normative Study Period Full-time (only)	Course Work	Thesis Research
MPhil	24 months	12 units	6 units each term
PhD*	48 months	12 units	6 units each term during pre-candidacy period and 12 units each term during post-candidacy period

\*36 months for student with a research MPhil degree or other research master's degree awarded by Hong Kong UGC-funded institutions.

### Fees & Financial Supports

Annual tuition fee	HKD42,100 (Full-time MPhil-PhD)
Postgraduate studentship for MPhil-PhD students	HKD18,025 per month
The Hong Kong PhD Fellowship Scheme (HKPFS)	The HKPFS aims at attracting the best and brightest students from all over the world to pursue their PhD studies in Hong Kong. The Fellowship provides an annual stipend of HK\$322,800 and a conference and research-related travel allowance of HK\$13,500 per year .
Loans available	Yes

The above information is for reference only.

Please contact Graduate School (Website: <https://www.gs.cuhk.edu.hk>; [gradschool@cuhk.edu.hk](mailto:gradschool@cuhk.edu.hk)) for up-to-date details.



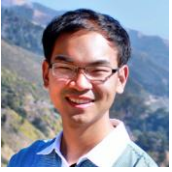


**Prof. CHAN Man Nin** 陳文年  
Ph.D., Environmental Science and Engineering, California Institute of Technology

**Research Fields**

- Aerosol physics and chemistry
- Chemical ageing of organic aerosol
- Multiphase, heterogeneous oxidative chemistry and kinetics
- Ambient pressure soft ionization (Direct Analysis in Real Time, DART)

**Email** [mnchan@cuhk.edu.hk](mailto:mnchan@cuhk.edu.hk)



**Prof. LIU Lin** 劉琳  
Ph.D., Geophysics, University of Colorado at Boulder

**Research Fields**

- Cryosphere geophysics
- Deep learning applications in Earth system science
- Geodesy and near surface geophysics
- Remote sensing

**Email** [liulin@cuhk.edu.hk](mailto:liulin@cuhk.edu.hk)



**Prof. Amos P. K. TAI** 戴沛權  
Ph.D., Engineering Sciences (Environmental Science and Engineering), Harvard University

**Research Fields**

- Atmosphere chemistry and physics
- Interactions between climate, ecosystems, and atmospheric composition
- Impacts of global environmental change on public health, agriculture and poverty
- Air pollution, climate change, and land use change

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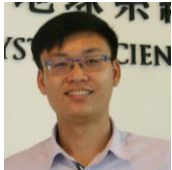


**Prof. Francis, C Y TAM** 譚志勇  
Ph.D., Atmospheric and Oceanic Sciences, Princeton University

**Research Fields**

- Climate dynamics, tropical meteorology
- Impact of climate change
- Seasonal climate prediction
- Statistical and dynamical downscaling

**Email** [Francis.Tam@cuhk.edu.hk](mailto:Francis.Tam@cuhk.edu.hk)



**Prof. Yen Joe TAN** 陳衍佐  
Ph.D., Geophysics, Columbia University

**Research Fields**

- Volcanic eruption dynamics
- Induced and triggered earthquakes
- Seismic imaging and monitoring with ambient noise
- Machine learning and data science

**Email** [yjtan@cuhk.edu.hk](mailto:yjtan@cuhk.edu.hk)

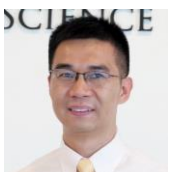


**Prof. Teng-fong WONG** 黃庭芳  
Ph.D., Geophysics, Massachusetts Institute of Technology

**Research Fields**

- Experimental rock deformation
- Earthquake mechanics
- Rock physics applied to energy resources
- Environmental hydrogeology

**Email** [tfwong@cuhk.edu.hk](mailto:tfwong@cuhk.edu.hk)



**Prof. Hong-feng YANG** 楊宏峰  
Ph.D., Seismology, Saint Louis University

**Research Fields**

- Subduction zone dynamics and megathrust earthquakes
- High-resolution imaging of crustal fault zones and subsurface structure
- Earthquake detection and location
- Earthquake source mechanics

**Email** [hyang@cuhk.edu.hk](mailto:hyang@cuhk.edu.hk)



**Prof. Yan ZHAN** 詹彥 (starting in Aug 2022)  
Ph.D. Geology, University of Illinois at Urbana-Champaign

**Research Fields**

- Data Assimilation in Geoscience
- Dynamics of Magma
- Lithospheric Deformation
- Numerical Modelling of Crustal Processes
- Volcano Geophysics

**Email** [yzhan@carnegiescience.edu](mailto:yzhan@carnegiescience.edu)

## Application Deadlines

### Hong Kong PhD Fellowship Scheme

Early December

### MPhil programme

Late January

### PhD programme

Late January

## Summer Workshop

EASC organizes workshop every summer, open to all potential applicants to our MPhil / PhD programme. We welcome undergraduate students in their last year of study or master students to apply. We will announce application details on our website in spring.

Interested student please visit EASC website for detailed **Admission Requirements and Application Procedures.**  
**Enquiries**

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Website <http://www.cuhk.edu.hk/sci/eas>

