



GRADUATE DIVISION OF EARTH & ATMOSPHERIC SCIENCES

地球與大氣科學學部

Earth and Atmospheric Sciences is a scientific discipline of critical importance for tackling various major challenges of global and regional concerns in the 21st 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 offers a graduate programme on Earth & Atmospheric Sciences (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 lithosphere, atmosphere, hydrosphere, biosphere, cryosphere, and the interactions among 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)

Research Frontiers in Earth & Atmospheric Sciences	Geomorphology
Geophysics	Boundary Layer Dynamics and Land-Atmosphere Interaction
Geodynamics	Tropical Meteorology
Aerosol Physics and Chemistry	Statistical Methods and Data Analysis
Atmospheric Dynamics	Numerical Methods and Modelling
Global Environmental Change	Geospatial Information Management and Analysis Methods
Petrology	Remote Sensing – Principles and Applications

Study Period

Degree	Normative Study Period Full-time (only)	Course Work	Thesis Research
MPhil	24 months	12 units	6 units each term
PhD (student <u>with</u> a research master's degree)	36 months	12 units	6 units each term during pre-candidacy period and 12 units each term during post-candidacy period
PhD (student <u>without</u> a research master's degree)	48 months	12 units	6 units each term during pre-candidacy period and 12 units each term during post-candidacy period

Fees & Financial Supports

Annual tuition fee	HKD42,100 (Full-time MPhil-PhD)
Postgraduate studentship	HKD18,025 per month
The Hong Kong PhD Fellowship Scheme (HKPFS)	The Hong Kong PhD Fellowship Scheme aims at attracting the best and brightest students from all over the world to pursue their PhD studies in Hong Kong. The Fellowship of HK\$26,600 and a conference travel allowance of HK\$13,300 per year for the awardees.
Loans available	Yes

The above information is for reference only.

Please contact Graduate School (Website: <http://www.cuhk.edu.hk/gss>; gradschool@cuhk.edu.hk) for up-to-date details.



Teaching Staff



Prof. Man Nin CHAN 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



Prof. Lin LIU 劉琳

Ph.D., Geophysics, University of Colorado at Boulder

Research Fields

- Cryosphere geophysics
 - Remote sensing
 - Geodesy and near surface geophysics
 - Deep Learning applications in Earth system science
- Email** 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
- Email** amostai@cuhk.edu.hk



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



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** yjt@stanford.edu



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



Prof. Hongfeng 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

Application Deadlines

Hong Kong PhD Fellowship Scheme

Early December

MPhil programme

End of January

PhD programme

End of January

Summer Workshop

EASC organizes workshop in every summer which is open to all potential applicants to our PhD programme. We welcome undergraduate students in their 3rd/ last year of study or master students to apply. We will announce application details on our website in spring.

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

Enquiries

Phone (852) 3943 9624

Email eas@cuhk.edu.hk

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

