



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, 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)

Geomorphology	Research Frontiers in Earth & Atmospheric Sciences
Geophysics	Boundary Layer Meteorology 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	Remote Sensing – Principles and Applications
Petrology	Volcanology

Study Period

Degree	Normative Study Period Full-time (only)	Course Work	Thesis Research
MPhil	24 months	12 units	6 units each term
Ph.D.*	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 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 provides an annual stipend of HK\$325,200 and a conference travel allowance of HK\$13,600 per year for each awardee.

Application Deadlines

Hong Kong PhD Fellowship Scheme
Early December

Regular MPhil-PhD admission
Late January

Summer Workshop

EASC organizes workshop in every summer which is 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.

The above information is for reference only.

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





Prof. Man Nin CHAN 陳文年

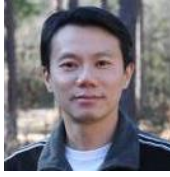
Ph.D., Environmental Science and Engineering, California Institute of Technology

Research Fields

- Aerosol physics and chemistry
- Chemical ageing of organic aerosol

Email mnchan@cuhk.edu.hk

- Multiphase, heterogeneous oxidative chemistry and kinetics
- Ambient pressure soft ionization (Direct Analysis in Real Time, DART)



Prof. Alex Tat-Shing CHOW 周達誠

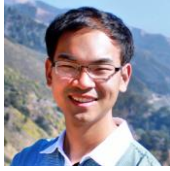
Ph.D., Hydrologic Science, University of California, Davis

Research Fields

- Carbon-Neutral Water System
- Environmental Organic Chemistry

Email achow@clemson.edu

- Chemical Hydrology
- Watershed Biogeochemistry



Prof. Lin LIU 劉琳

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

Research Fields

- Cryosphere geophysics
- Remote sensing: Deep Learning applications in Earth system science

Email liulin@cuhk.edu.hk

- Geodesy and near surface geophysics



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

Email amostai@cuhk.edu.hk

- Air pollution, climate change and land use change



Prof. Francis C Y TAM 譚志勇

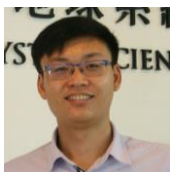
Ph.D., Atmospheric and Oceanic Sciences, Princeton University

Research Fields

- Climate dynamics, tropical meteorology
- Impact of climate change

Email Francis.Tam@cuhk.edu.hk

- Seasonal climate prediction
- Statistical and dynamical downscaling



Prof. Yen Joe TAN 陳衍佐

Ph.D., Geophysics, Columbia University

Research Fields

- Volcanic eruption dynamics
- Induced and triggered earthquakes

Email yit@ldeo.columbia.edu

- Seismic imaging and monitoring with ambient noise
- Machine learning and data science



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

Email hYang@cuhk.edu.hk

- Earthquake source mechanics



Prof. Shixian ZHAI 翟世賢

Ph.D., Atmospheric Chemistry, Harvard University

Research Fields

- Atmospheric chemistry and multiscale air pollution
- Reactive nitrogen chemistry and budgets
- Inverse modelling

Email shixianzhai@cuhk.edu.hk

- Background influences on air quality
- Nutrient and carbon cycles



Prof. Benoit THIBODEAU

Ph.D Environmental Sciences, University of Quebec at Montreal, Canada (GEOTOP)

Research Fields

- Marine Nitrogen Cycle
- Paleoceanography and Paleoclimate
- Wetland Biogeochemistry

Email benoit.thibodeau@cuhk.edu.hk



Prof. Yan ZHAN 詹彥

Ph.D. Geology, University of Illinois at Urbana-Champaign

Research Fields

- Data Assimilation in Geoscience
- Dynamics of Magma
- Lithospheric Deformation

Email yanzhan@cuhk.edu.hk

- Numerical Modelling of Crustal Processes
- Volcano Geophysics

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>

