



HK PhD Fellowship

Summer Workshop (10 - 14 July 2017)

Faculty of Engineering, The Chinese University of Hong Kong

Supporting Unit

Graduate School



Information Booklet



Website: www.erg.cuhk.edu.hk/phdsummerworkshop

Address: Faculty of Engineering, 6/F, Ho Sin Hang Engineering Building, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong SAR

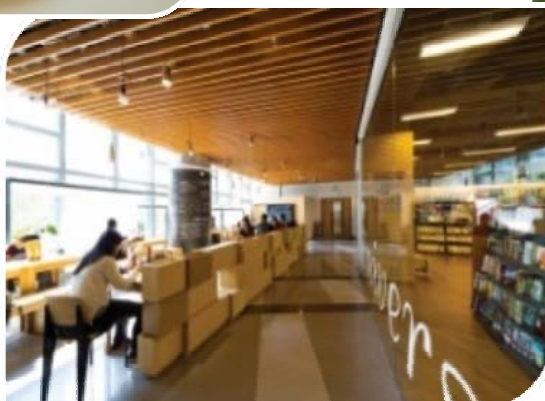
Enquiry: phd@erg.cuhk.edu.hk

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Welcome Message

Congratulations on accepting our invitation to the CUHK PhD Fellowship Scheme Summer Workshop 2017! Now that the workshop is around the corner, we believe that you may find the following information useful when you prepare for your trip to Hong Kong.

1. Travel tips to Hong Kong

Immigration and custom

It is against the Hong Kong law to bring certain dangerous items into Hong Kong. Make sure that you check for tips and advice in the links below:

http://www.police.gov.hk/ppp_en/04_crime_matters/cpa/cpa_at.html (in English)

http://www.police.gov.hk/ppp_sc/04_crime_matters/cpa/cpa_at.html (in Simplified Chinese)

Weather

Weather in July is hot and humid, with occasional showers and thunderstorms. The mean temperature in July is around 29-30 degrees. The daytime temperature is usually over 30 degrees. Please visit the Hong Kong Observatory website for detailed weather information.

<http://www.weather.gov.hk/contente.htm> (in English)

<http://gb.weather.gov.hk/contentc.htm> (in Simplified Chinese)

Tele-communication

Please check if your service provider has a roaming agreement with a Hong Kong operator. Pay attention to the roaming rates. More information can be found in the link below.

<http://www.discoverhongkong.com/eng/plan-your-trip/practicalities/communications/mobile-phone-usage.jsp>

You can also pick up a Discover Hong Kong Tourist SIM card which offers free local call, free WiFi, bundles of mobile data, as well as cheap international calls and SMS messages.

http://www.discoverhongkong.com/eng/plan-your-trip/practicalities/communications/tourist-sim-card.jsp?WT.mc_id=102411 (in English)

http://www.discoverhongkong.com/china/plan-your-trip/traveller-info/communications/tourist-sim-card.jsp?WT.mc_id=102411 (in Simplified Chinese)

Alternatively, you may purchase a local SIM card at the Hong Kong International Airport. Location of the telecommunication shops / convenience stores are available at:

<https://www.hongkongairport.com/eng/shopping/insideshopping/all/conve/list.html> (in English)

<https://www.hongkongairport.com/gb/shopping/insideshopping/all/conve/list.html> (in Simplified Chinese)

1. Travel tips to Hong Kong (cont'd)

Electrical equipment

The standard electrical voltage in Hong Kong is 220 volts AC, 50Hz. The electrical outlets in Hong Kong take a three-pronged UK-style plug. Please make sure that you **bring along an adaptor with you**. You may buy an adaptor for your electrical equipment at most convenience stores. Note that no adaptor will be provided.



power socket



adaptor

Daily necessities

There is one supermarket—Park'n Shop—located inside the CUHK campus, which is about 10 minute walking distance from your dormitory. (Address: LG, John Fulton Centre. Opening hours: 8:30 am–10:00 pm (Mon–Fri) 8:30 am–9:00 pm (Sat, Sun and public holidays).)

Travel Insurance

You are **strongly advised to purchase travel insurance to cover your trip** as any medical or emergency expenses incurred, if applicable, could be very expensive.

Personal belongings

You are reminded to bring along the followings:

- Identify card, passport, entry permit and travel documents, where applicable
- Personal care products such as cleaning supplies, water bottle, sunscreen product, umbrella, emergency drugs, etc
- Cash (both HK dollars and RMB): you may purchase an Octopus Card upon arrival. Octopus card is widely used in transportation, convenience stores, supermarkets, fast-food shops and retails shops in Hong Kong as well as in the CUHK campus.
- Room temperature is around 23-25 degrees in seminar rooms and other inner area of two Engineering Buildings. You may consider bringing a wind jacket with you.
- Stationeries, universal electronic adaptor and other items like flashlight



2. Arriving CUHK

You are advised to purchase an On-loan Octopus card to facilitate your transport in Hong Kong. Please visit the following site for more information. Octopus card is widely used in HK for public transportation and catering.

<http://www.octopus.com.hk/get-your-octopus/choose-your-octopus/on-loan-octopus/standard-octopus/en/index.html>

From Hong Kong International Airport

- By Taxi

The fares would be around HKD 350-400 based on miles. It would take you 35-40 minutes from the airport to CUHK. Taxi drivers in HK usually speak simple English and Mandarin. Octopus card cannot be used. You may ask for a receipt before getting of the taxi.

- Public Transport (Via Metro)

Tung Chung Station -> University Station

Take the Airport Bus S1 at Airport Passenger Terminal Building and get off at Tung Chung Station.



Take the MTR from Tung Chung Station to University Station of East Rail Line. Please make use of the MTR inquiry desk inside the airport if you need further directions. Refer to p.11 for the MTR map or visit www.mtr.com.hk for more information.

- Public Transport (Via Bus)

Take the Airport Bus A41 or E42 and get off at Sha Tin Central Bus Terminal. Please walk to Sha Tin Station (5-min walk) and take the MTR East Rail line to University Station. Visit www.kmb.com.hk for more information.

From Luo Hu Customs (罗湖口岸)

If you enter HK from Luo Hu, you will be able to see the sign “Hong Kong” and just walk to the Luo Hu Customs (罗湖口岸) and arrive at Hong Kong. Take the MTR East Rail line to University Station.

From Futian, Shenzhen (福田口岸)

If you enter HK from Futian, Take the MTR East Rail line at Lok Ma Chau Station (落馬洲站) to University Station.

2. Arriving CUHK

We do not have sufficient manpower to provide pick-up service from the airport; you will have to come to CUHK by yourself. CUHK is right beside the University MTR Station of the East Rail Line (東鐵線) (refer to p.12 for the MTR map). If you decide to take the taxi to CUHK, you may ask the taxi driver to take you directly to SH Ho College (善衡書院) or Morningside College (晨興書院), your dormitory for the weeklong workshop. The two Colleges are just next to each other. If the driver does not know about the two Colleges, simply ask to be dropped off at the University MTR station (大學港鐵站).

School Bus

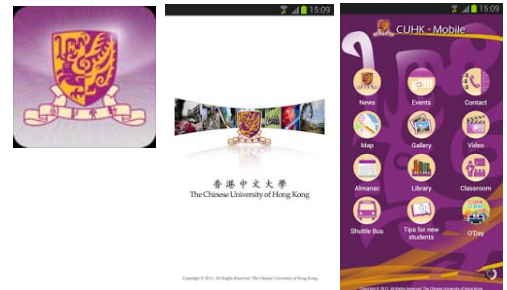
After you arrive at the University MTR Station on July 9 (Sunday), try to locate the CUHK bus stop and get on **School Bus Line H**. After getting off at the first station (University Sports Center 大學體育中心), you will be on University Avenue and right across the street from the two Colleges. Turn right from University Avenue into a side way that leads you to the Colleges. The link below shows more information about the CUHK campus shuttles. Line H runs every 20 minutes during 8:20am—11:20pm on Sundays and public holidays: http://www.cuhk.edu.hk/transport_office/

Alternatively, you may download the smartphone apps “**CUHK Mobile**” for getting the most up-to-date information of school bus schedule.

iPhone users: <https://itunes.apple.com/hk/app/cuhk-mobile/id441447866?mt=8>



Android users: https://play.google.com/store/apps/details?id=hk.edu.cuhk.cuhkmobile&hl=zh_HK



Note that Line H only runs on Sundays and Public Holidays only. If you desire to explore Hong Kong on weeknights, you should take the **Bus Line 1A** instead. You still get off at the first station to return your hostel. Line 1A runs every 15-20 minutes depending on the time of the day.



3. Map of CUHK

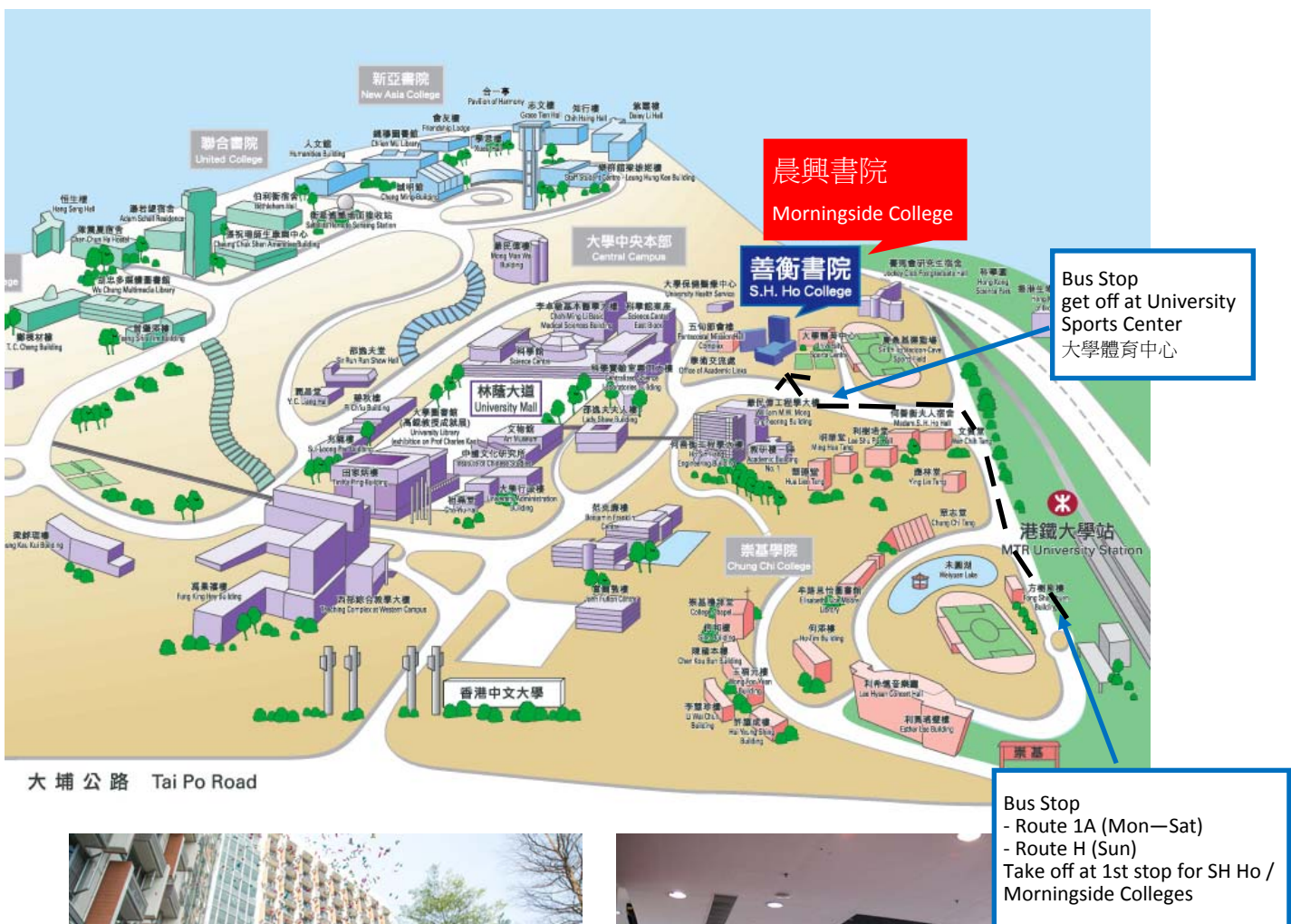
Online map: <http://www.cuhk.edu.hk/english/campus/cuhk-campus-map.html>



4. Checking into campus housing

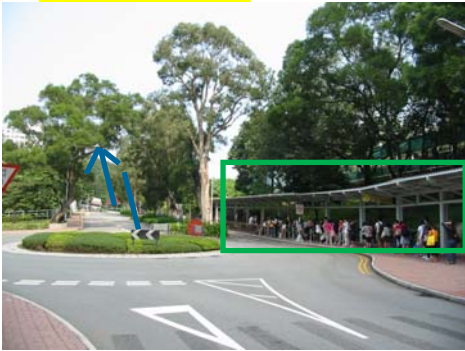
On the day of move-in, please check-in at SH Ho College which is located just a **10-minute walking distance from the University MTR Station on foot**. Our staff will wait for you there. **Please do not come to CUHK earlier than July 9, since housing will not be available before then.** Our preferred check-in time is between 3 PM and 6 PM. If you need to arrive earlier or later than our suggested time slot, please contact us by email (phd@erg.cuhk.edu.hk) in advance.

NOTE: During the check-in period, please report duty to our staff or student helper at the main entrance, G/F lobby, Ho Tim Hall Building, SH Ho College (善衡書院何添堂學生宿舍). They will pass you the room key and other accessories. Participants will stay in either SH Ho College or Morningside College.



Directions to hostels

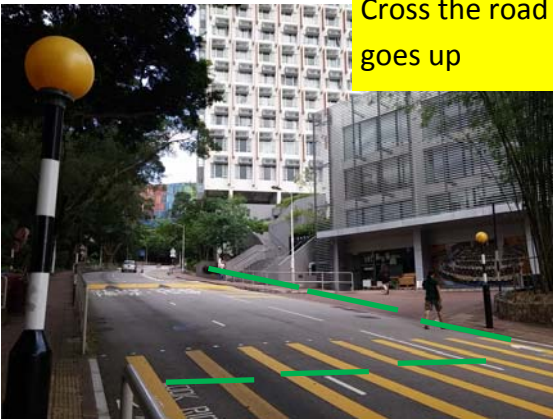
Bus Terminal



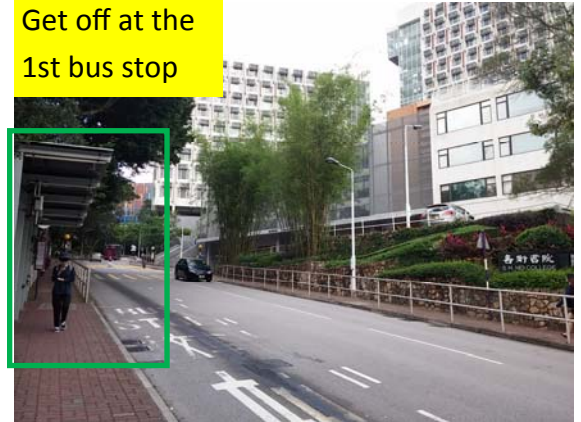
Note: If you do not take the school bus, you may also go to hostel on foot (10-min walk from the MTR exit).



Cross the road and goes up



Get off at the 1st bus stop



Please turn right here
→



Then you will see



Main entrance of SH Ho College



Main entrance of Morningside College

5. Hostel Regulations

- (1) Residents should dress properly in all common areas of the College.
- (2) Residents should avoid making excessive noise in the Hostel. The period between **11:00 p.m. and 7:00 a.m.** is regarded as the **Quiet Hours** of the Hostels. During the Quiet Hours, residents should not make or cause to be made any noise which is a source of annoyance to any person.
- (3) Residents are **NOT** allowed to enter hostel premises for the opposite sex floors from 12:00 a.m. to 7:00 a.m.
- (4) Gambling in any forms is prohibited in the premises of the Hostels. Possession of any gambling facilities is also **prohibited**.
- (5) Overnight visitor is not allowed.
- (6) Residents should not possess, store or consume hard liquor (more than 20%) in any forms in the premises of the Hostel. Drunkenness and related disorderly behaviours are regarded as misbehaviours.
- (7) **Smoking is prohibited** in all Hostel areas including the rooms and common areas.
- (8) Any prohibited items may be confiscated by the Warden; confiscated items will not be returned.
- (9) No cooking is allowed in Hostel rooms or common areas (except pantries) of the College.
- (10) The pantry is only for simple cooking. Residents are to clean up the pantry immediately after use.
- (11) Residents should not ignite fires or burn candles in the Hostel.
- (12) Residents should use the dryers in the laundry room to dry their clothes as far as possible. Hang drying is allowed only in designated areas in the Hostel.
- (13) Residents are not permitted to use the recreation and sport facilities of the College (e.g. Fitness Room, reading room).

Rent of Laundry Card (SH Ho College Student Hostel)

Rent service is available at College Office from 0900 to 1730 during weekdays only. The cards must be returned to College Office during office hours from Monday to Friday. The charge is shown as follows:

Laundry Card:	Pre-value added at \$20/50/100 each. Remaining unused value would not be refunded. No laundry powder provided.
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Rent of Laundry Card (Morningside College Student Hostel)

Laundry card could be borrowed, with a refundable deposit of HK\$100, from the College Office counter. You are welcome to come during office hours from Monday to Friday to borrow the card to use, as well as to add the top-up credit (payable in cash) to the card over the counter. Office hours of the College office are Monday to Friday (except Saturday, Sunday and Public Holiday), from 8:45 a.m. to 1:00 p.m.; 2:00 p.m. to 5:30 p.m.

Laundry Card:	Pre-value added at \$10 or above. Remaining unused value would not be refunded. No laundry powder provided.
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6. Route Directions to Hang Seng Bank and Supermarket

Upon your arrival, we will present to you the travel subsidy in the form of a cash cheque. The cheque can be exchanged into cash at the **Hang Seng Bank** on the campus, which is around 10-min walking distance from the student hostels. **Please bring your passport and identification document** to the bank for getting the money during its service hours. Route directions to the bank is listed below.



Hang Seng Bank & Supermarket

Photo of **John Fulton Centre**



Photo of **Benjamin Franklin Centre**



Walk through this road

Hang Seng Bank

Address:

Room 101, John Fulton Centre

Service hours:

Mon - Fri : 9:00 a.m. - 5:00 p.m.
Sat : Closed

Park'n Shop Supermarket

Address:

LG, John Fulton Centre

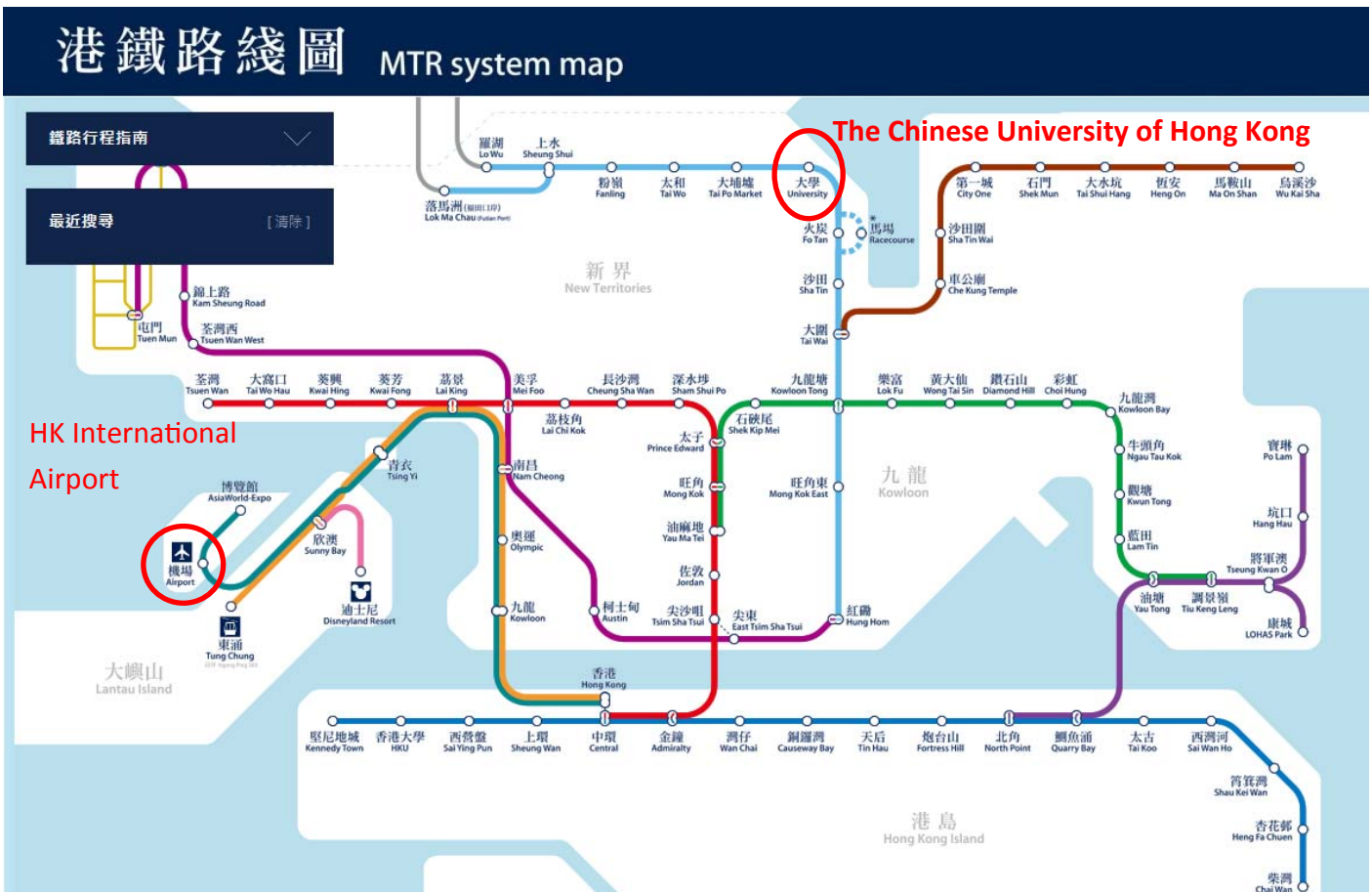
Service hours:

8:30 am–10:00 pm (Mon–Fri)
8:30 am–9:00 pm (Sat, Sun and public holidays)

7. Getting around Hong Kong

Except the welcoming banquet and lunch arrangement on day one and day two, you are expected to take care of other meals. There are a number of canteens located in the central area and Colleges on campus. We also encourage you to take advantage of your weeklong stay to explore our vibrant city by taking MTR (see the MTR system map below). Feel free to consult our staff members or students on where you may get authentic Cantonese food or visit our famous tourist attractions in town.

A single-way train ride from University Station to Kowloon Tong Station takes about 15-20 minutes. From Kowloon Tong, you may conveniently transit to another line and head towards the heart of the city. The University MTR station closes at around 12pm mid-night.



8. Emergency contact

In any case you need help, please contact with Mr. Leo Cheung (mobile phone: (852) 56159479, Wechat ID: foecuhk, email: phd@erg.cuhk.edu.hk).



9. Wifi Access

Free WiFi access will be provided on CUHK campus.

(1) CUguest Wi-Fi Service

WiFi SSID	CUguest
Coverage	CUHK campus
Service Start Date	7/9/2017 0:00 (Sunday)
Service End Date*	7/15/2017 23:59 (Saturday)

* Note that the WIFI service will stop operating sharply at 00:00, July 16, Sunday.

Instructions:

- Have your account ready: login information will be shown on the namebadge
(**User Type:** CUHK Visiting Guests , **User ID :** Your account ID , **Domain Name :** guest.cuhk.edu.hk)
- Turn on your Wi-Fi enabled device and detect the network SSID=CUguest
- Open your web browser and you will be prompted to enter your account.
- At "Login to CUguest Wi-Fi Service" page:
 - I. Enter your User ID as above (excluding domain name)
 - II. Select your User Category from the pull-down menu:
 - III. Enter your password, and then click Login. For successful login, you'll be able to surf the web anytime at campus hotspots.
- Logout the service by clicking the Logout link that prompted on the screen. Except for 1-hour idle time disconnection, there is no connection time quota in using this service.

(2) **ERGWAVE Wi-Fi Service** (SSID=ERGWAVE) in the area of two Engineering Buildings, namely, Ho Sin Hang Engineering Building (SHB) and William M. W. Mong Engineering Building (ERB).

WiFi SSID	ERGWAVE
Coverage	SHB and ERB
Service duration	Whole event
Connection Method	Web Portal Login

After connecting to ERGWAVE, the Web Portal Logon webpage will be displayed when you use the browser to access internet websites. Choose "**ENO**" in the FQDN dropdown box, and input the username and password. The username is "**phdsw**". The password is printed on your namebadge.

10. Supervisor selection and admission interview

A unique hyperlink for supervisor selection and admission interview will be sent to the email account you registered in your PHDSW application on July 4 (Tuesday). Do not share the hyperlink with others. Each participant can declare up to 2 intended supervisors in the online system.

The sharp deadline for submission is **23:00, 11 July 2017, Tuesday (Day 2)**. Make sure that you have made proper declaration before the deadline. Admission interviews will be conducted on July 13 (Thursday) and July 14 (Friday) respectively.

The exact interview date and time will be decided by the intended graduate divisions.

11. Bad Weather Arrangement

Weather Warnings and Signals

Activities may be cancelled or suspended due to bad weather as advised by the Hong Kong Observatory. Please pay attention to the announcement made in Wechat group and email.



Very Hot Weather Warning



Amber Rainstorm Warning Signal

Activities will continue and offices will remain open. Participants should observe the traffic and weather conditions.



Red Rainstorm Warning Signal



Thunderstorm Warning



Standby Signal No. 1



Strong Wind Signal No. 3

However, when the following warnings are in force, the planned or on-going activities will be affected.



Black Rainstorm Warning Signal



Typhon No. 8 or Storm Signal

Activities will be affected (see below table)



Increasing Gale or Storm Signal No. 9



Hurricane Signal No. 10

The typical arrangements are as follows for prior reference:

Signal is/will be in force at or after the following time	Activities affected	Suspension/cancellation of activities
7:00a.m.	Day-time activities	Morning sessions (8:30a.m.-2:00p.m.)
12:00noon	Day-time activities	Afternoon sessions (2:00p.m.-6:00p.m.)
3:00p.m.	Evening activities	Evening sessions (6:00p.m.-10:00p.m.)

For activities that are in progress, they will be suspended immediately. Participants are advised to stay in a safe place until the weather and traffic conditions improve.

12. Program rundown

The rundown is subject to change without prior notice.

Day 0 - July 9, 2017 (Sunday)

Check in at the CUHK campus hostel (Morningside College / SH Ho College) between 3 PM and 6 PM.

Day 1 - July 10, 2017 (Monday)

8:30-8:50	Arrival of participants
	Welcoming Ceremony (TY Wong Hall, 5/F, SHB)
9:00-9:20	<ul style="list-style-type: none"> - Welcome address and Introduction of CUHK Faculty of Engineering, Prof. John Lui, Associate Dean for Research, Faculty of Engineering - Introduction to HKPFS and application process by Prof. Minghua Chen, Organizing Chair of HKPFS Summer Workshop - Taking group photo
9:20-10:20	Introduction to Graduate Divisions
	Introduction to Curriculum and Research Opportunities, TY Wong Hall, 5/F, SHB
9:20 - 9:30	1. Prof. Raymond Tong, Division Head, BME Graduate Division (10 mins)
9:30 - 9:40	2. Prof. Kevin Yip, Division Head, CSE Graduate Division (10 mins)
9:40 - 9:50	3. Prof. Xiaogang Wang, Division Head, EE Graduate Division (10 mins)
9:50 - 10:00	4. Prof. S.C. Liew, Division Head, IE Graduate Division (10 mins)
10:00 - 10:10	5. Prof. Yunhui Liu, Division Head, MAE Graduate Division (10 mins)
10:10 - 10:20	6. Prof. Xuedong He, SEEM Graduate Division (10 mins)
10:20 - 10:35	Break
10:40 - 12:20	Research Seminars I delivered by faculty members (parallel sessions)
	TY Wong Hall, 5/F, SHB
	Session chair: Prof. Kevin Yip (CSE)
10:40 - 11:00	A. "Algorithms and Optimization for Electronic Design Automation of VLSI", Prof. Evangeline Young (CSE)
11:00 - 11:20	B. "VLSI Layout Hotspot Detection: From Online Learning To Deep Learning", Prof. Bei Yu (CSE)
11:20 - 11:40	C. "Computer vision: An Important AI Area", Prof. Jiaya Jia (CSE)
11:40 - 12:00	D. "Computational 3D Printing, Fabrication and Object Assembly", Prof. Philip Fu (CSE)
12:00 - 12:20	E. "Computer science meeting biomedicine", Prof. Kevin Yip (CSE)
	ERB1009
	Session chair: Prof. Xuedong He (SEEM)
10:40 - 11:00	A. "Communicating in adverse situations", Prof. Sidharth Jaggi (IE)
11:00 - 11:20	B. "Three questions that I can't answer", Prof. Andrej Bogdanov (CSE)
11:20 - 11:40	C. "Processing Encrypted Data", Prof. Sherman Chow (IE)
11:40 - 12:00	D. "Resource Allocation for Big Data Processing Systems ; System/Network Security", Prof. Wing C. Lau (IE)
12:00 - 12:20	E. "Distributed Systems: the real boss behind Bitcoin and Blockchain", Prof. Eric Lo (CSE)
	ERB803
	Session chair: Prof. Jonathan Choi (BME)
10:40 - 11:00	A. "Robotic Exoskeleton, Energy Harvesting, and 4D Printing", Prof. Wei-Hsin Liao (MAE/Energy)
11:00 - 11:20	B. "Designing bionanomaterials for drug delivery and understanding their "bio-nano" interactions", Prof. Jonathan Choi (BME)
11:20 - 11:40	C. "Exoskeleton robotics for stroke rehabilitation and Brain research using neuroimaging", Prof. Raymond Tong (BME)
11:40 - 12:00	D. "DNA nanosensors and microfluidics for disease diagnostics", Prof. Megan Ho (BME)
12:00 - 12:20	E. "Bio-detection with lab-on-a-disc", Prof. Aaron Ho (BME)
12:30 - 14:00	Lunch (lunch boxes will be provided for all workshop participants) - collection of lunch boxes at Reading Room, 6/F, SHB building

Day 1 - July 10, 2017 (Monday)

14:00 - 15:40	Research Seminars II delivered by faculty members from different Graduate Divisions (parallel sessions)
	TY Wong Hall, 5/F, SHB Session chair: Prof. Xiankai Sun (EE)
14:00 - 14:20	A. "Challenges of Antenna Array Technologies in 5G Wireless Systems", Prof. Ke-Li Wu (EE)
14:20 - 14:40	B. "Quantum Information Science: Towards the quantum era", Prof. Haidong Yuan (MAE)
14:40 - 15:00	C. "Classical and quantum information processing", Prof. Pascal Vontobel (IE)
15:00 - 15:20	D. "(1) DARPA SC2 Competition (2) HKUST-MIT Consortium: Communications Networks for Intelligent Transportation Systems", Prof. Soung Liew (IE)
15:20 - 15:40	E. "Optical Systems & Networks", Prof. Calvin Chan (IE)
	ERB1009 Session chair: Prof. Minghua Chen (IE)
14:00 - 14:20	A. "Non-Convex Optimization Models in Machine Learning: Fast Methods and Provable Guarantees", Prof. Anthony So (SEEM)
14:20 - 14:40	B. "Benefits of Data-driven Prediction in Algorithm and System Design", Prof. Minghua Chen (IE)
14:40 - 15:00	C. "Network Science, Machine Learning and their Applications", Prof. John C.S. Lui (CSE)
15:00 - 15:20	D. "Searching Communities in Large Networks", Prof. Hong Cheng (SEEM)
15:20 - 15:40	E. "Algorithms on Massive Datasets: Theory Meets Practice", Prof. Yufei Tao (CSE)
	ERB803 Session chair: Prof. Renjie Zhou (BME)
14:00 - 14:20	A. "Addressing key neuroscience questions by advanced electrophysiological and imaging techniques", Prof. Wing-Ho Yung (SBS)
14:20 - 14:40	B. "Multiscale biomaterials for stem cell-based therapy", Prof. Liming Bian (BME)
14:40 - 15:00	C. "Tomographic Phase Microscopy: a marker-free platform for 3D cell imaging", Prof. Renjie Zhou (BME)
15:00 - 15:20	D. "Introduction to MPIL Lab", Prof. Shih-Chi Chen (MAE)
15:20 - 15:40	E. "Introduction to Nanostructured Optoelectronic Devices and Wearable Biomedical Devices", Prof. Ni Zhao (EE)
15:40 - 16:00	20-min break
	Research Seminars III delivered by faculty members from different Graduate Divisions (parallel sessions)
16:00 - 17:40	TY Wong Hall, 5/F, SHB Session chair: Prof. Dahua Lin (IE)
16:00 - 16:20	A. "Visual Analysis, Learning and Synthesis in Computational Manga", Prof. TT Wong (CSE)
16:20 - 16:40	B. "Deep Learning meets Structured Data", Prof. Dahua Lin (IE)
16:40 - 17:00	C. "Deep Learning in Computer Vision", Prof. Chen Change Loy (IE)
17:00 - 17:20	D. "Deep learning for computer vision", Prof. Xiaogang Wang (EE)
	ERB1009 Session chair: Prof. Ping Guo (MAE)
16:00 - 16:20	A. "Optical sensors for environment, energy and healthcare", Prof. Wei Ren (MAE/Energy)
16:20 - 16:40	B. "Nanoscale Thermal Transport and Applications", Prof. Dongyan Xu (MAE/Energy)
16:40 - 17:00	C. "Electrochemical Energy Storage & Conversion", Prof. Yi-Chun Lu (MAE/Energy)
17:00 - 17:20	D. "Catalysis in Energy and Environmental Engineering", Prof. Yongsheng Chen (MAE/Energy)
17:20 - 17:40	E. "Impact of Outdoor Air Pollution on Indoor Environments", Prof. Chun Chen (MAE/Energy)
	ERB803 Session chair: Prof. Xuedong He (SEEM)
16:00 - 16:20	A. "Introduction to Behavioral Finance and Economics", Prof. Xuedong He (SEEM)
16:20 - 16:40	B. "Stochastic Inventory and Revenue Management", Prof. Xiting Gong (SEEM)
16:40 - 17:00	C. "Robust Optimization and Project Management", Prof. Daniel Zhuoyu Long (SEEM)
17:00 - 17:20	D. "Human-in-the-Loop Wireless Networks", Prof. Man Hon Cheung (IE)
18:30 - 20:30	Welcoming Banquet (Dining Hall, Morningside College)

Day 2 - July 11, 2017 (Tuesday)

09:00 - 10:00	Breakfast (sandwich and soft-drinks will be provided) - collection of breakfast at Reading Room, 6/F, SHB building
10:00 - 12:00	Research Seminars IV delivered by faculty members from different Graduate Divisions (parallel sessions)
	TY Wong Hall, 5/F, SHB Session chair: Prof. Kevin Yip (CSE)
10:00 - 10:20	A. "Flexible Electronics, Past, Present and Future", Prof. Jianbin Xu (EE)
10:20 - 10:40	B. "Large-Scale Systems for Big Data and Machine Learning", Prof. James Cheng (CSE)
10:40 - 11:00	C. "Sharing Economy in Communication Networks", Prof. Jianwei Huang (IE)
11:00 - 11:20	D. "Understanding and Using Machine Learning", Prof. Shengyu Zhang (CSE)
11:20 - 11:40	E. "Research Directions on Big Data Analytics with Machine Learning Techniques", Prof. Michael Lyu (CSE)
11:40 - 12:00	F. "Medical Image Analysis and Surgical Simulation", Prof. Pheng Ann Heng (CSE)
	ERB1009 Session chair: Prof. Xiankai Sun (EE)
10:00 - 10:20	A. "Emerging Applications of Silicon Photonics ", Prof. Hon Tsang (EE)
10:20 - 10:40	B. "New phenomena and technological development of photonic and optomechanical nanodevices ", Prof. Xiankai Sun (EE)
10:40 - 11:00	C. "Challenges in Advanced Processing of Photonic Signals", Prof. Chester Shu (EE)
11:00 - 11:20	D. "What is Signal Processing and Why Such Expertise Make a Difference?", Prof. Ken Ma (EE)
11:20 - 11:40	E. "Challenges and excitemets in speech and language research", Prof. Tan Lee (EE)
11:40 - 12:00	F. "Scalable Deep Language Models", Prof. Xunying Liu (SEEM)
	ERB803 Session chair: Prof. Wei Ren (MAE)
10:20 - 10:40	A. "Bio-inspired medical robots and devices", Prof. Zheng Li (BME/Surgery)
10:40 - 11:00	B. "What is missing in mechanically capable robots?", Prof. Max Meng (EE)
11:00 - 11:20	C. "Introduction to microrobotics and nanotechnology for minimally invasive medicine", Prof. Li Zhang (MAE)
11:20 - 11:40	D. "Novel Applications in Manufacturing and Automation", Prof. Ping Guo (MAE)
11:40 - 12:00	E. "Medical robotics", Prof. Yunhui Liu (MAE)

Day 2 - July 11, 2017 (Tuesday) , cont'd

12:00 - 14:45	<p>Poster Session & Lunch (lunch boxes will be provided for all workshop participants) - collection of lunch boxes at Reading Room, 6/F, SHB building</p> <p>(BME, EE, CSE, IE, SE) (MAE, Energy) @ Reading Room, 6/F, SHB @ 5/F Foyer, TY Wong Hall, SHB</p>
15:00 - 17:00	<p>Parallel activities:</p> <p>Guided Lab Tour * (see table below)</p> <p>Individual meetings with Professors (participants are free to make individual arrangements with professors)</p>
17:00 - 18:30	<p>Individual meetings with Professors (participants are free to make individual arrangements with professors)</p>

15:00 - 17:10	<p>Guided Lab Tour * (Interested students should gather at SHB 5/F Podium at 14:45 for grouping)</p>		
	Tour A	Tour B	Tour C
	ERB 312 Smart Materials and Structures Lab, Prof. Wei-Hsin LIAO (MAE)	RRSSB G12 Bionanotechnology Lab, Prof. Jonathan CHOI (BME)	SHB 901-903 Virtual Reality, Visualisation and Imaging Research Centre, Profs. Pheng Ann Heng, Tien Tsin Wong (CSE)
	ERB 303& G06 Multiscale Precision Instrumentation Lab, Prof. Shih-chi CHEN (MAE)	RRSSB G18 Biomaterials and Tissue Engineering Lab, Prof. Liming BIAN (BME)	SHB 827 Lightwave Communications Laboratory, Prof. Lian-Kuan CHEN / Calvin CK CHAN
	SHB 505 Electrochemical Energy & Interfaces Lab, Prof. Yi-Chun LU (MAE)	RRSSB G20 Biosensing & BioMEMS Lab, Prof. Megan Ho (BME)	SHB702-703 Multimedia Lab, Prof. Dahua LIN (IE)
	SHB506 Laser Diagnostics and Combustion Laboratory, Prof. Wei Ren (MAE).	SHB 431 Neuroengineering Lab, Prof. Raymond TONG (BME)	SHB 303/318/319 Fiber Optics and Integrated Photonics Lab, Profs. Hon Ki TSANG / Chester SHU / Xiankai SUN (EE)
	1/F, Academic Building No.1 CUHK T Stone Robotics Institute, Prof. Yunhui LIU (MAE)	SHB 432 Robotics and Perception Lab, Prof. Max Meng (EE)	SHB220 Organic and Nanostructured Optoelectronics Lab, Prof. Ni ZHAO (EE)

Day 3 - July 12, 2017 (Wednesday)

10:00 - 12:00	Individual meetings with Professors <i>(participants are free to make individual arrangements with professors)</i>	
12:30 - 14:30	Lunch (self- arranged)	
15:00-17:00	Panel discussion with professors and PhD students	
15:00-17:00	MAE, BME, SEEM (ERB 1009) a. Making the right decision: Why do a PhD at CUHK? What's the PhD life like? b. Career prospects of recent PhD graduates from CUHK c. How to pursue excellence in research? d. Tips for applying to HKPFS / division at CUHK e. Survival guide for an international student in HK (e.g. finance, cultural shock, life in HK)	CSE, IE, EE (ECE+CS) (ERB 803) a. Making the right decision: Why do a PhD at CUHK? What's the PhD life like? b. Career prospects of recent PhD graduates from CUHK c. How to pursue excellence in research? d. Tips for applying to HKPFS / division at CUHK e. Survival guide for an international student in HK (e.g. finance, cultural shock, life in HK)
17:30-18:30	CSE written test	
17:30-18:30	Remarks: (i) students who are shortlisted by CSE Graduate Division for admission interviews are required to attend the test. (ii) shortlisting results will be posted at 4pm outside ERB1009 and ERB803, as well as on the web at https://www.cse.cuhk.edu.hk/v7/en/misc/cseinterviewlist.pdf	
Evening	Free Time	

Day 4 - July 13, 2017 (Thursday)

09:00 - 09:30	Interview arrangement will be announced to all participants						
10:00 - 12:30	Admission Interviews						
10:00 - 12:30	EE (SHB222)	CSE (SHB1027)	SEEM (ERB513)	-	IE (SHB835)	BME (SHB606A)	
12:30 - 14:00	Lunch (self- arranged)						
14:00 - 17:30	Admission Interviews						
14:00 - 17:30	EE (SHB222)	CSE (SHB1027)	SEEM (ERB513)	MAE & Energy (ERB215)	IE (SHB835)	BME (SHB606A)	
Evening	Free Time						

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Day 5 - July 14, 2017 (Friday)

9:00-12:30	Admission Interviews					
	EE (SHB222)	CSE (SHB1027)	SEEM (ERB513)	MAE & Energy (ERB215)	IE (SHB835)	BME (SHB606A)
12:30-14:00	Lunch (self- arranged)					
14:00-17:30	Admission Interviews					
	EE (SHB222)	CSE (SHB1027)	SEEM (ERB513)	MAE & Energy (ERB215)	IE (SHB835)	BME (SHB606A)
Evening	Free Time					

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Day 6 - July 15, 2017 (Saturday)

Checkout at 9 AM—11 AM and leave CUHK





Website: www.erg.cuhk.edu.hk/phdsummerworkshop

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