

The Chinese University of Hong Kong, Shenzhen (CUHK-SZ) Summer Lab Research (SLR) Programme 2025 (in-person)

Programme Overview

The Summer Lab Research Programme (SLR) at The Chinese University of Hong Kong, Shenzhen (CUHK-SZ) is an 8-week non-credit programme for exchange students from CUHK-SZ's global partner institutions. Participants will gain valuable research experience at CUHK-SZ's cutting-edge laboratories under the guidance of their distinguished faculty during the Summer Session with guaranteed on-campus residence.

The research topics cover a wide range of fields, including New Energy & Energy Efficiency Management, Big Data & Scientific Data, Modern Biological Information Engineering, Robotics & AI, Operations Management & Marketing, etc.

More information can be found [here](#), including the programme benefits, programme timeline, as well as the list of summer labs. The list of labs can also be found at the end of this document. Students are encouraged to contact the lab supervisor to match their interests before applying for SLR. **Applicants must meet the requirements of the individual labs that they are applying to.**

Location

This programme takes place in Shenzhen, China.

Dates

2 June – 25 July 2025 (8 weeks)

**There may be slight changes to the exact dates.*

Credit Transfer

The research programme may be mapped to a 4-unit UROPS course code or a 4-unit FoS dummy exchange course code (counts towards unrestricted electives).

More information on course mapping and credit transfer will be released to students accepted into the programme.

Do note that additional assessment may be required from the student by the NUS department for transferring of credits to a UROPS course. Not all UROPS course code can be counted towards major requirements. Please check what requirements the UROPS will count towards and if you are unsure, please check with your department.

Besides the research programme, students are allowed to take up to 6 credits of courses (equivalent to 8 NUS units) during the summer term. Course mapping and credit transfer are allowed for these courses.

Students can transfer a total of 12 units from a maximum of 2 overseas summer/winter programmes without having to pay NUS tuition fee during their course of study. The maximum number of units that can be transferred from a single summer programme is 10 units. Any additional units mapped will be subjected to [NUS Special Term fees](#).

Course mapping and credit transfer for online summer programmes are not allowed.

Eligibility Criteria

NUS students must:

- Be a full-time Faculty of Science student, with a primary major in science
- Have a clean disciplinary record
- Have completed 2 – 6 semesters in NUS by the start of the programme (i.e. current Year 1, Year 2 and Year 3 students)
- Have a minimum GPA of 3.0
- Not be intending to graduate at the end of AY2024/2025 Semester 2
- Not be called up for National Service during the programme dates. A deferment letter will not be provided.

An internal offer does not guarantee your placement in the programme. Your admission outcome is at the discretion of the partner institution.

Number of Places

There are 3 places available.

Programme Cost

Students do not need to pay NUS Special Term fees or tuition fees to CUHK-SZ if they do not exceed the credits transfer limit stated under the section "Credit Transfer" above. However, students are responsible for their own airfare, accommodation, meals, personal expenses, etc.

Estimated cost (*Please note that the figures provided are only estimates*)

Item	Cost
Return Airfare	SGD500
Accommodation	SGD150/term (sharing basis)
Food and Transport	SGD500/month

Please visit [OAL website](#) for further information regarding on-campus lodging. On-campus residence will be arranged for successful applicants.

Financial Assistance

Click [here](#) to find out more about the various financial assistance schemes offered by FoS. This programme is eligible for the NASA Enhancement Bursary and the Science Student Overseas Exposure Fund (SSOEF).

Information on financial aid application will be sent to students accepted into the programme later.

Other financial assistance schemes offered by NUS can be found [here](#).

Programme Application Procedure and Deadline

Login to EduRec and submit your application under External Study Type “Research Attachment/Internship/Industrial Attachment”, External Study Setup ID: **03157**. Please refer to the [Guide for Student Programme Application](#) before starting your application.

Application Deadline: **Monday, 3 February 2025, 11:59pm Singapore Time**

Documents required (upload into your online application in EduRec):

1. Latest NUS unofficial transcript
2. Curriculum Vitae – Highlight any prior research experience that you may have to support your application
3. Personal Statement – Indicate your 5 project choices in order of preference, including your area of research interest and why you are interested in the mentioned projects

Note:

- Students who receive an offer from NUS are required to submit a separate application to CUHK-SZ
- Admission into the programme is at the discretion of CUHK-SZ
- Allocation of project is done by CUHK-SZ

If you face difficulties uploading the documents, submit the required documents via [SCI UG Queries](#) (category: SAP) by **3 February 2025, 11:59pm Singapore Time**.

Applications would be **deemed incomplete if the required documents are incomplete or not submitted** by the stipulated deadline, and therefore disqualified from the application.

To be fair to students who abide by the deadline, incomplete or late application will strictly not be considered.

Insurance

All students travelling overseas for activities or purposes approved, endorsed, organised, sponsored or authorised by NUS will be covered by the NUS Student Travel Insurance Policy. Click [here](#) for more information.

Exclusions to the NUS Student Travel Insurance may apply. Students are to ensure that they have sufficient travel insurance coverage, and may consider purchasing additional travel insurance if required.

Contact

If you have any questions, please submit your enquiry via [SCI UG Queries](#) (category: SAP).

Updated: 23 January 2025

AY2024-2025 List of Summer Labs

Research Field	Laboratory	Quota	Requirements	Contact	Website	Remarks
New Energy and Energy Efficiency Management	Shenzhen Institute for Advanced Polymer Materials (PolyGBA)	8	- Junior year undergraduate student with chemistry, chemical engineering background	Prof. He ZHU: zhuhe@cuhk.edu.cn Prof. Qi ZHANG: qizhang@cuhk.edu.cn	https://polygba.cuhk.edu.cn/ https://polysz.cuhk.edu.cn/en	
	Shenzhen Key Laboratory of Advanced Materials Product Engineering (PolyCUHKSZ)					
	Shenzhen Key Laboratory of Environmental Materials and Renewable Energy	5	- Junior year undergraduate student or postgraduate student with materials, chemistry, physics, energy background;	Prof. Zhongxin CHEN: chenzhongxin@cuhk.edu.cn	https://www.cuhk.edu.cn/en/article/7105 http://www.catalysis-cuhksz.com/	
Big Data and Scientific Data	Guangdong Provincial Key Laboratory of Big Data Computing	2	- Senior year undergraduate student with any of the following majors: data science, machine learning, electrical engineering (statistical signal processing emphasis), control;	Prof. feng YIN: yinfeng@cuhk.edu.cn	https://www.cuhk.edu.cn/en/article/7326	
	Shenzhen Research Institute of Big Data	5	- Senior year undergraduate student; - Major in wireless communications; - Work on the implementation of OAI-based 5G NR system: up to 5 students;	Prof. Chao SHEN: chaoshen@sribd.cn	https://www.cuhk.edu.cn/en/article/4161	
		2	- Junior/Senior year undergraduate student; - Major in data science, computer science, machine learning, electrical engineering (statistical signal processing emphasis), control;	Dr. Akang WANG wangakang@sribd.cn Prof. Xiaodong LUO xiaodongluo@cuhk.edu.cn		
		3-5	- Junior/Senior year undergraduate student; - Major in data science, computer science, machine learning, electrical engineering (statistical signal processing emphasis), control;	Dr. Shipei ZENG: shipei.zeng@sribd.cn		
	The Chinese University of Hong Kong, Shenzhen- Shenzhen Research Institute of Big Data-Huawei Innovation Laboratory of Future Network System Optimization	2	- Senior year undergraduate student; - Major in wireless communications; - Work on the FPGA implementation of channel simulator: up to 2 students;	Prof. Tsung-Hui CHANG: changtsunhui@cuhk.edu.cn	https://www.cuhk.edu.cn/en/article/6011	
	Prof. Yao's Lab (High-dimensional Statistics; Random Matrix Theory)	2	- Junior year undergraduate student in mathematics or Statistics majors	Prof. Jeff J. Yao: jeffyao@cuhk.edu.cn	https://jianfengyao.wordpress.com/	
Modern Biological Information Engineering	Guangdong Provincial Key Laboratory of Life and Health Sciences	2	- Major in biology, medicine, chemistry, life sciences, biomedicine engineering or relevant background; - Have completed General Biology or equivalent course; - Prefer good programming skills for applying Bioinformatics lab;	Prof. Richard YE: richardye@cuhk.edu.cn	https://www.cuhk.edu.cn/en/article/6003	
	Futian Biopharmaceutical Innovation and R&D Center, The Chinese University of Hong Kong, Shenzhen					
	Arieh Warshel Institute of Computational Biology, The Chinese University of Hong Kong, Shenzhen	3	- Plan to obtain a PhD in computer-aided drug design, AI-aided drug design, computational biology, or computational chemistry; - Proven track record of scientific research and publication; - Experiences with Linux, data analysis, and scripting using programming language; - Good oral and written communication skills in English; - Acquired basic knowledge in: Mathematics Physics Computing Chemistry Biology/Biotechnology/Biomedicine	Prof. Hsien-Da HUANG: huanghsienda@cuhk.edu.cn Prof. Guijuan CHENG: chengguijuan@cuhk.edu.cn Prof. Lizhe ZHU: zhulizhe@cuhk.edu.cn Prof. Hiraio Hajime: hiraio@cuhk.edu.cn Prof. Yongfei WANG: yfwang@cuhk.edu.cn	https://www.cuhk.edu.cn/en/article/128	
	Kobilka Institute of Innovative Drug Discovery, The Chinese University of Hong Kong, Shenzhen	2	- Junior/Senior year undergraduate student; - Major in structure biology, biology, or chemistry;	Prof. Yang DU: yangdu@cuhk.edu.cn	https://www.cuhk.edu.cn/en/article/4153	
		2	- Junior/Senior year undergraduate student; - Major in physics, chemistry, or biology;	Prof. Ying-Chih CHIANG: chiangyc@cuhk.edu.cn		
Robotics and Artificial Intelligence Laboratory- Marine Robot		4	- Major in electronic and information, automation, or computer science related major; - Familiar with python and C++; - Junior year undergraduate student or above;	Prof. Huihuan QIAN hhqian@cuhk.edu.cn	https://rail.cuhk.edu.cn/article/35	
		2	- Major in robotics (such as mechanical, automation) or computer science related programme; - Strong hand-on skills;	Prof. Tin Lun LAM: tllam@cuhk.edu.cn	https://freeformrobotics.org	

Robotics & AI	Shenzhen Institute of Artificial Intelligence and Robotics for Society (AIRS)	4	<p>Prof. Hongyuan Zha's Lab:</p> <ul style="list-style-type: none"> - Students should have a solid math background and have a topic of interest that aligns with our topics; - Prefer students who are already working on one of the topics in machine learning and applications, including reinforcement learning, online optimization, multi-agent learning and optimization, game theoretic machine learning, and applications in autonomous vehicles and diagnostic systems; 	Prof. Baoxiang WANG: bxiangwang@cuhk.edu.cn	https://airs.cuhk.edu.cn/en	Hongyuan Zha works on a variety of topics in machine learning and applications, including reinforcement learning, online optimization, multi-agent learning and optimization, game theoretic machine learning, and applications in autonomous vehicles and diagnostic systems. Lab includes several assistant professors that also investigate the above topics. The students could be in AIRS or CUHK-Shenzhen.
		2-4	<p>Dr. Xiaopu Wang's Lab: (Requirement 1 or Requirement 2)</p> <p>Requirement 1: (1-2students)</p> <ul style="list-style-type: none"> a. Basic knowledge of hydrogels or polymers; b. Passion in working on microrobots-related research; c. Proficiency in English; d. Experience in chemical experiments is a plus; e. Experience in cell culture is a plus; <p>Requirement 2: (1-2students)</p> <ul style="list-style-type: none"> a. Theoretical knowledge of the electromagnetic field; b. Passion in working on microrobots-related research. c. Excellent programming skills in Python (C/C++ language is a plus); d. Proficiency in English; e. Prefer experience in computer vision or image processing; 	Dr. Xiaopu WANG: wangxiaopu@cuhk.edu.cn		The collaboration project launched by Dr. Xiaopu Wang of AIRS and Prof. Bradley Nelson of ETH Zurich aims at fundamental and applied research in microrobots. The content of this project includes (1) Combining advanced micro-/nano processing technology and material technology to fabricate microrobots with excellent properties; (2) Studying swarm control and programmed control of microrobots; (3) Exploring the biomedical applications possibilities of microrobots, such as smart cargo delivery, thrombosis treatment, aneurysm treatment, etc. The students could be only in AIRS.
	Human Language Technology Laboratory	4	<ul style="list-style-type: none"> - Major in computer science, computer engineering, electrical engineering - Familiar with one or more of Python, Matlab or c++ programming languages - Foundation knowledge of signal processing is a plus 	<p>Prof. Haizhou Li: haizhouli@cuhk.edu.cn</p> <p>Prof. Zhizheng Wu: wuzhizheng@cuhk.edu.cn</p>		www.colips.org/~eleliha https://drwuz.com/
Operations Management & Marketing	Game-Theoretic Modeling in Operations Management & Marketing	2	- Students should have taken the game theory course and get a grade of A- or above. Knowledge with Industrial Organization is preferred.	<p>Prof. Duo SHI: shiduo@cuhk.edu.cn</p> <p>Prof. Chenxi LIAO: chenxiliao@cuhk.edu.hk</p>	https://sme.cuhk.edu.cn/en/teacher/175 https://www.bschoo.cuhk.edu.hk/staff/liao-chenxi/	