

PROGRAMME HIGHLIGHTS



Social and cultural programme We blend educational rigour with diverse opportunities for fun and leisure. You will have a choice of social excursions, to experience the fascinating culture, cuisine and sights of Singapore's multi-cultural society.



Unique educational experience You will learn in small groups led by instructors who are experts in their fields. The programme comprises tailor-made, small-class lectures and practicals, such as case studies and real-world projects, on a cutting-edge scientific topic. opportunities for fun and leisure.



International learning You will have the opportunity to make friends and establish networks with students from all over the world, each bringing their own unique experiences. The mix of cultures, experience and knowledge will generate a unique environment, enabling you to flourish academically and socially in and outside of the classroom.



Immerse in university life We offer you the opportunity to stay on campus, where you can enjoy your summer experience by living together in a college environment that enables a supportive and close-knit student community.

Participants will receive a certificate of participation at the end of the programme.

OUR programme is a perfect opportunity to broaden your academic and cultural horizons. You will gain new skills and ideas, immerse yourself in new surroundings, and expand your international perspective.

COURSES

July

Week of 16 to 27 July 2018

Data Science using Python Programming and Tableau 9:00 am to 12:30 pm

Data Analytics for Customer Insights 2:00 pm to 5:30 pm

Criminalistics: Evidence and Proof 9:00 am to 12:30 pm

Criminalistics: Forgery exposé with Forensic Science 2:00 pm to 5:30 pm

Data Science Transforming How We Live and Work; or Data: The New Science or Data: The Driver of New Megatrends or Data: The Oil of the 21st Century

Instructor Prof Carol Hargreaves / Dr Vik Gopal
Between the dawn of civilisation and 2003, the human race created five exabytes (5 x 1018 bytes) of information. Now we are creating that amount every two days. Discover how to unlock insights from Big Data using data science. Through Python Programming and Tableau, students will learn how to relate statistical analysis, computer programming and visualisation to deliver business value. Through data analytics, students can better derive insights from customer data, to develop effective customer retention strategies.

Forensic Science Res Ipsa Loquitur ('let the thing speak for itself')

Instructor Prof Stella Tan
Students will delve into the fascinating world of forensic evidence from crime scene to court, and how objective evidence can convict the guilty as well as exonerate the innocent. The courses will touch on court case studies of crime and death investigation, and discuss the scientific value of past court cases.

Note: Photography and any form of recording are not allowed

SCHEDULE

- 18 MAY 2018 **Early bird registration closes**
- 01 JUNE 2018 **Online application closes**
- 08 JUNE 2018 **Hard copy submission & Payment deadline**
- 16 JULY 2018 **Welcome Lunch**
- 16 TO 27 JULY 2018 **Global Science Summer programme**
- 27 JULY 2018 **Farewell dinner**

FEES

Early bird registration by 18 May 2018 ▶ S\$50
After 18 May 2018 ▶ S\$100

	Partner Universities ¹	Non-Partner Universities
Course fee <small>Includes course materials, tea breaks, welcome lunch and farewell dinner, and social programme.</small>	S\$1520	S\$1900
Housing <small>Includes 13 nights of campus accommodation from 15 July to 28 July. Each student will be allocated to any available on-campus housing. All rooms have wifi access. Check-in is at 2.00pm and check-out is at 12.00pm.</small>	S\$300 - 490 <small>(excluding GST)</small>	
One-time miscellaneous fee <small>Includes campus healthcare services, student insurance, internal shuttle bus service, internet access, and library and sports facilities.</small>	S\$65	S\$70

¹Refer to www.nus.edu.sg/iro/prog/sep/partner-universities.html for NUS partner universities



Faculty of Science

More Information

Visit us at www.science.nus.edu.sg/gssp

Contact
scisap@nus.edu.sg
Attn: Ms NIAH Weixin
Ms Carine NG

Apply Now!
www.science.nus.edu.sg/gssp

Registration closes on
01 June 2018

ELIGIBILITY

All current students registered at another university world-wide are eligible to apply.

There is no pre-requisite for the courses. However, as all courses will be taught and assessed in English, students should have a good command of English language. Students whose first language is not English must provide proof of English proficiency.

INSTRUCTORS

Learn from our top-notch, award-winning course leaders!



Prof Stella Tan

Forensic Science

Prof **Stella Tan** received an M.Sc. in Cell and Molecular Biology and a Law degree from NUS, and an M.Sc. in Forensic Science from the University of New Haven. In 2008, she started NUS' Forensic Science Minor, the first and only programme of its kind in Singapore and Asia. She has served as the Deputy Director, Senior Deputy Public Prosecutor, Deputy Senior State Counsel in the Attorney-General's Chambers, where she prosecuted many landmark cases. She was also the Director of Prosecution and Legal Policy at the Health Sciences Authority. She is the Deputy Chairperson representing Singapore at the International Standards Organisation for Forensic Sciences. In 2017, she was appointed Associate Professor in Practice in the Faculty of Science.



Prof Carol Hargreaves



Dr Vik Gopal

Data Science

Prof **Carol Hargreaves** is an analytics and business intelligence professional with over 28 years analytics experience. She has held leading roles in the pharmaceutical, healthcare, fast moving consumer goods and education industries.

Prof Hargreaves has a passion for solving business problems using analytics and machine learning techniques to build data-driven solutions. She is the Director of the Faculty's Data Analytics Consulting Centre.

Dr **Vik Gopal** received a B.Sc. (Hons) in Mathematics from NUS and a Ph.D. in Statistics at the University of Florida. He has analysed encryption algorithms at the Centre for Strategic Infocomm Technologies, and worked for IBM Research, where he collaborated with government agencies on data analytics projects focusing on spatio-temporal models. His research interests are in computational methods, simulation techniques and exploring data in general. Dr Gopal has received two teaching awards from the Faculty of Science.



Faculty of Science



GLOBAL SCIENCE SUMMER PROGRAMME IN DATA ANALYTICS AND FORENSIC SCIENCE



16 to 27 July 2018

The Faculty of Science, National University of Singapore (NUS), is now accepting applications for our inaugural two-week Global Science Summer Programme 2018.

