



# TALK@MYSCHOOL PROGRAMME

We offer 35 science talks in 2020-21

Informative talks will be delivered online with your school!

## **TOPIC HIGHLIGHTS**

### Appearance and Evolution of Life

- Early Life on Earth
- The World of Dinosaurs

### Chemistry in Daily Life

Weighing Proteins Using Mass Spectrometry

### Developments in Drugs and Medical Science



- Superbugs: What Doesn't Kill Them Makes Them Stronger
- Understanding Cancer
- Understanding COVID-19 and SARS-CoV-2

### Developments in Science and Technology

- Bacterial Extracellular Electron Transfer for a Sustainable and Renewable World
- Can Fantasy Become Reality
- How May Artificial Intelligence Change our Society?

### Ecology, Environment and Planet Earth

- Darwin in the City: Understanding Evolution in an Urban World
- Earthquakes and Tsunamis
- Noise Annoys: Understanding the Effects of Noise Pollution on Human and Non-human City Dwellers
- Revisiting Photosynthesis and Chloroplast Bioenergetics
- Scientific Health Risk Assessment of Persistent Organic Pollutants at Intensive Electronic Waste Recycling Sites
- The Anthropocene: Are we Causing the 6<sup>th</sup> Mass Extinction Event?
- The Earth is Round



### Food Sciences and Health

- Science of Food and Nutrition: What and Why We Eat

### Mathematics, Statistics and **Decision Making**

- Calculus! Why Should We Care?
- How Mathematics Improves the Quality of Our Life
- Interesting Things about Interest Rates
- Machine Learning
- Misuses of Statistics
- Bole of Statistics in Health Sciences
- Statistics for Data Science
- Statistics in Mahjong
- The Mathematics of Voting
- What the Man Who Knew Infinity Knew



- the admissions policies





### Mysteries in Space

- Are We Alone: The Search for Planets
- Around Other Stars
- Cosmic Fireworks
- The Many Uses of Pulsars
- The Sun: Our Nearest Star
- The Violent Universe

### Science and Humanity

The Forgotten Member of the Science Trinity

### Understanding the Physics of Nature

• The Four Nobel Prizes Associated with Neutrinos and Beyond The World of Particles

- Admission Talks for Our Science Programmes
- 6901 Bachelor of Science
  - 6729 Bachelor of Science in Actuarial Science
  - 6224 Bachelor of Arts and Sciences (Applied AI)

Our teacher will deliver an admissions talk to your school students introducing our science programmes. The talk will cover:

- key features of our science programmes
- the curriculum and diverse learning opportunities for students
- the Major/ Minor system

Please visit our website for full list of topics and detailed descriptions. Submit applications for science and admission talks online.



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## Science Enrichment Programmes for Secondary School Students

FACULTY OF SCIENCE THE UNIVERSITY OF HONG KONG CIENCE 香港大學理學院



SCIENCE CREATES KNOWLEDGE

### Artificial Intelligence

Artificial Intelligence Chatbots

Can Artificial Intelligence be Creative?

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### Biological Sciences

Check Your Health

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- Evaluate Your Meat
- Molecular Analysis of Genetically Modified (GM) Plants
- To See DNA Crossing and Exchanging



Chemistry

- Science, Technology and Humans
- Weighing Proteins Using Mass Spectrometry
- What's the "Matter"?

### Earth Sciences

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Geological Heritage of Hong Kong



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## Mathematics

- Calculus! Why Should We Care?
- Groups and Symmetry
- Probability in Daily Life
- Proof of the Four-Color Conjecture



20 online workshops will be offered in first and second semesters of 2020-21

JUNIOR SCIENCE INSTITUTE Interactive Online Lectures

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• STEM topics covering a wide spectrum of disciplines

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• Learning STEM through our interactive online workshops, demonstrations and virtual field trips!



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- How Does an Astronomical Telescope Work?
- Magnetism in Motion

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- Nuclear Physics Fundamental to Applied Science
- The Two-sphere Model of the Universe
- The Wonderful World of the Quantum

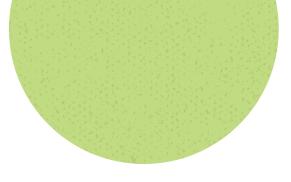


Probabilities and Statistics in Daily Life

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Date	November 14, 2020 (Saturday) March 13, 2021 (Saturday)	
Application	Submit applications online	<b>V</b>

- Application 1<sup>st</sup> semester session: November 8, 2020 (Sunday) deadline 2<sup>nd</sup> semester session: March 7, 2020 (Sunday)
- Form 4 6 (secondary school students) Eligibility Year 11–13 (international school students)

# PUBLIC LECTURE SERIES



## **Biological Sciences**

### Chemistry

### Earth Sciences

Mathematics

### Statistics & **Actuarial Science**

### Physics

Stay tuned for lecture dates!

The Magic of Oysters and How They Help Humans

Chemistry Drives Little World - How Nanorobot May Work in Reality

Origins of the Galápagos Archipelago's Land Animals: A Detective Story Involving Ocean Currents, DNA, Molecular Clocks, Volcanoes, and Tectonic Plates

The Mathematics of Sharing

AI-Driven Diagnosis with COVID-19 How Can Data Science Reshape the Global Value Chain Across Countries?

Big Data in Astronomy



