CAREER
You can work in many different industries:
- Finance & Banking
- Healthcare
- IT companies
- Transportation & Logistics
- Retail & Marketing
- Government
- Academia

Possible jobs:
- Consultant
- Data Analyst
- Data Engineer
- Data Scientist
- Business Intelligence Analyst
- Financial Quantitative Analyst

“I strongly welcome these programmes as they provide graduates of professional training in data science disciplines to fill-up such soaring demand of talents locally and internationally.”
Dr. Xia Xiang, Regional Head of Independent Model Review, Asia Pacific, HSBC

WHY CITYU?
1st
The school is the first School of Data Science in Hong Kong and the region

55th
Ranked 55th among the world’s top 200 universities (QS World University Rankings 2019)

8th
Ranked 8th among Asia’s top universities (QS Asia University Rankings 2018)

STUDENT LIFE
Overseas Exchange
Experience student life in different countries

Internships
Opportunities for overseas and local internships

Scholarships & Awards
We support and recognize outstanding students

Activities
Mentor schemes, company visits, career talks and guest lectures

DATA SCIENCE AT CITY UNIVERSITY OF HONG KONG

JOIN US NOW!
Be among the first students in Hong Kong to graduate in this exciting field.
www.cityu.edu.hk/sdsc
# Our Data Science Programmes

City University of Hong Kong offers two brand new and unique undergraduate programmes aimed at nurturing and developing students to become data scientists who are able to create applicable knowledge in order to support social and economic development in Hong Kong and beyond.

## School of Data Science (JS1071)
(Options: BEng Data and Systems Engineering, BSc Data Science)

### Bachelor of Engineering
**Data and Systems Engineering (JS1073)**

**Data Science plus**
Aimed at educating data scientists with solid understanding of tools and techniques who focus on using data science to solve social and economic applications

Offering study areas in
- Smart City
- Internet of Things (IoT)
- Systems Analytics

### Bachelor of Science
**Data Science (JS1072)**

**Data Science deep**
Aimed at educating data scientists with rigorous theoretical knowledge and a solid foundation for exploring new data science methods

Offering specializations in
- Statistical Learning
- Artificial Intelligence
- Social Media Analytics

---

## What Is Data Science?

Data science is an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from data. It employs techniques and theories within the context of mathematics, statistics, and computer science. It can add value to businesses by utilizing their data. Data science aims to help solve many important problems to support social and economic development.

## Why Study Data Science?

Recently, business and industries powered by data science experienced a sharp growth. Various companies and organizations in Hong Kong and beyond are developing their own data analytics units. Numerous start-ups and incubation firms focus their energy on data science. Data science is becoming a new career and a popular one too.

---

## Curriculum

### Data Science Project

Apply your knowledge and showcase your data science capabilities

### Elective Courses

**BEng in Data and Systems Engineering**
- Specialization courses
  - Become an expert in
    - Smart City
    - Internet of Things (IoT)
    - Systems Analytics

**BSc in Data Science**
- Specialization modules
  - Become an expert in
    - Statistical Learning
    - Artificial Intelligence (AI)
    - Social Media Analytics

**Advanced Courses**
- Decision Analytics and Risk Management
- Quality Technologies
- Operations Research
- Financial Engineering and Analytics
- Reliability Engineering
- Engineering Economics

**Data Science Courses**
Fundamental courses to start your study in data science
- Data Mining
- Convex Optimization
- Statistical Methods and Data Analysis
- Data Visualization
- Python for Data Science
- Statistical Inference
- Introduction to Data Science
- Artificial Intelligence
- Introduction to Machine Learning

**General Education Courses**
University and school required courses to build up the foundation
- Calculus
- Linear Algebra
- Database Systems
- English and Chinese
- Computer Programming
- Probability and Statistics

\[\text{This figure shows the basic structure of our two programmes. It is subject to change.}\]