Bachelor of Science

理學士課程

Decision Analytics
決策分析學

Risk Management
風險管理學

Statistics
統計學

Data
**Decision Analytics Major**

The Decision Analytics Major aims to equip students with the skills and expertise in leveraging and managing big data in real-time amidst an upsurge of digital data produced worldwide nowadays. It enables students to examine, translate and classify data, uncover hidden patterns and unknown correlations, and most importantly, pinpoint precisely the most critical areas and the implications suggested by the data. With a coordinated approach to teaching across different disciplinary fields, namely computer science, mathematics and statistics, the Major is designed to provide students with solid training in making digitized information a strategic part of critical decision making and resource allocation with greater clarity and accuracy.

Decision analytics promotes the applications of computer technology, operational research, mathematical and statistical modelling, and simulation to decision-making and problem-solving in all organisations and enterprises within the private and public sectors. Applications of decision analytics are virtually to all kinds of disciplines: science, social science, education, engineering, medicine, economics, business, etc. Students will acquire a competitive advantage in becoming vital assets of any organisations which need to make decisions.

**Required Courses (96 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT2601</td>
<td>Probability and statistics I</td>
</tr>
<tr>
<td>STAT2602</td>
<td>Probability and statistics II</td>
</tr>
<tr>
<td>SCNC1111</td>
<td>Scientific method and reasoning</td>
</tr>
<tr>
<td>SCNC1112</td>
<td>Fundamentals of modern science</td>
</tr>
<tr>
<td>COMP1117</td>
<td>Computer programming</td>
</tr>
<tr>
<td>COMP2119</td>
<td>Introduction to data structures and algorithms</td>
</tr>
<tr>
<td>MATH1013</td>
<td>University mathematics II</td>
</tr>
<tr>
<td>MATH2014</td>
<td>Multivariable calculus and linear algebra</td>
</tr>
</tbody>
</table>

**Introductory Level Courses**

At least 12 credits selected from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT3620</td>
<td>Modern nonparametric statistics</td>
</tr>
<tr>
<td>STAT3621</td>
<td>Statistical data analysis</td>
</tr>
<tr>
<td>STAT3622</td>
<td>Data visualization</td>
</tr>
<tr>
<td>STAT3655</td>
<td>Survival analysis</td>
</tr>
<tr>
<td>STAT4011</td>
<td>Natural language processing</td>
</tr>
<tr>
<td>STAT4023</td>
<td>Medical image analysis</td>
</tr>
<tr>
<td>STAT4601</td>
<td>Time-series analysis</td>
</tr>
<tr>
<td>STAT4602</td>
<td>Multivariate data analysis</td>
</tr>
<tr>
<td>STAT4610</td>
<td>Bayesian learning</td>
</tr>
<tr>
<td>COMP3250</td>
<td>Design and analysis of algorithms</td>
</tr>
<tr>
<td>COMP3270</td>
<td>Artificial intelligence</td>
</tr>
<tr>
<td>COMP3323</td>
<td>Advanced database systems</td>
</tr>
<tr>
<td>COMP3407</td>
<td>Scientific computing</td>
</tr>
</tbody>
</table>

**Advanced Level Courses**

At least 6 credits selected from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT3799</td>
<td>Directed studies in statistics</td>
</tr>
<tr>
<td>STAT4710</td>
<td>Capstone experience for statistics undergraduates</td>
</tr>
<tr>
<td>STAT4766</td>
<td>Statistics internship</td>
</tr>
<tr>
<td>STAT4799</td>
<td>Statistics project (12 credits)</td>
</tr>
</tbody>
</table>

All courses are 6-credit bearing unless otherwise stated.

* The programme structures of the Majors are subject to change. For the most updated syllabus, please visit the Science Faculty’s website.
## The Risk Management Major

The Risk Management Major aims to equip students with the skills and expertise to master the theory and methodology behind the scientific process of risk management, with application to actuarial science, finance, and other areas of interest. It is designed to provide solid training in the concepts of the risk management process, statistical models and methods of risk management, and good risk management practice. Core courses in the curriculum emphasise fundamental concepts and nature of risk assessment, risk management and governance from different standpoints while elective courses provide either training in specific risk management disciplines or an extension of knowledge aiming to give students more modelling, technical and analytical skills in risk management, including discrete-time models in finance, stochastic calculus with financial applications, and financial time series modelling. Through participating in experiential learning activities including research-based projects, industrial internships and overseas exchanges, students could enhance their knowledge in risk management, increase exposure in managing risk in practice, and improve their thinking and communication skills.

Career opportunities are available in financial institutions and large corporations including banks and consulting firms. Graduates readily find employment in government, banking, finance, risk management, insurance, IT, marketing research and many other related sectors in which expertise in quantitative risk analysis and management is in great demand due to the data-driven environment nowadays. A growing number of professions depend on such an expertise to help manage risk in the midst of increasing uncertainty in the economy and an upsurge in financial and operational crises.

### Required Courses (96 credits)*

<table>
<thead>
<tr>
<th>Level</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Level</td>
<td>STAT1600</td>
<td>Statistics: ideas and concepts</td>
</tr>
<tr>
<td>Advanced Level</td>
<td>STAT2601</td>
<td>Probability and statistics I</td>
</tr>
<tr>
<td>Disciplinary Electives</td>
<td>STAT2602</td>
<td>Probability and statistics II</td>
</tr>
<tr>
<td></td>
<td>SCNC1111</td>
<td>Scientific method and reasoning</td>
</tr>
<tr>
<td></td>
<td>SCNC1112</td>
<td>Fundamentals of modern science</td>
</tr>
<tr>
<td></td>
<td>MATH1013</td>
<td>University mathematics II</td>
</tr>
<tr>
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<td>MATH2014</td>
<td>Multivariable calculus and linear algebra</td>
</tr>
</tbody>
</table>

* The programme structures of the Majors are subject to change. For the most updated syllabus, please visit the Science Faculty’s website.

### Advanced Level Courses (18 credits)

- **STAT3600**: Linear statistical analysis
- **STAT3609**: The statistics of investment risk
- **STAT3615**: Practical mathematics for investment

### Disciplinary Electives (30 credits)

At least 30 credits selected from the following courses:

- **STAT3603**: Stochastic processes
- **STAT3610**: Risk management and insurance
- **STAT3612**: Statistical machine learning
- **STAT3618**: Derivatives and risk management
- **STAT3655**: Survival analysis
- **STAT3911**: Financial economics II
- **STAT4601**: Time-series analysis
- **STAT4603**: Current topics in risk management
- **STAT4606**: Risk management and Basel Accords in banking and finance
- **STAT4607**: Credit risk analysis
- **STAT4608**: Market risk analysis

### Capstone Requirement (6 credits)

At least 6 credits selected from the following courses:

- **STAT3799**: Directed studies in statistics
- **STAT4710**: Capstone experience for statistics undergraduates
- **STAT4799**: Capstone project (12 credits)

### Required Courses (96 credits)*

<table>
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<tr>
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<td>Multivariable calculus and linear algebra</td>
</tr>
</tbody>
</table>

* The programme structures of the Majors are subject to change. For the most updated syllabus, please visit the Science Faculty’s website.

### Advanced Level Courses (12 credits)

At least 12 credits from List A, and a minimum of 18 credits from List A:

- **STAT3600**: Linear statistical analysis
- **STAT4602**: Multivariate data analysis

### Disciplinary Electives (36 credits)

- **STAT3603**: Stochastic processes
- **STAT3610**: Risk management and insurance
- **STAT3612**: Statistical machine learning
- **STAT3618**: Derivatives and risk management
- **STAT3655**: Survival analysis
- **STAT3911**: Financial economics II
- **STAT4601**: Time-series analysis
- **STAT4603**: Current topics in risk management
- **STAT4606**: Risk management and Basel Accords in banking and finance
- **STAT4607**: Credit risk analysis
- **STAT4608**: Market risk analysis

### Capstone Requirement (6 credits)

At least 6 credits from the following courses:

- **STAT3799**: Directed studies in statistics
- **STAT4710**: Capstone experience for statistics undergraduates
- **STAT4799**: Statistics project (12 credits)

All courses are 6-credit bearing unless otherwise stated.

* The programme structures of the Majors are subject to change. For the most updated syllabus, please visit the Science Faculty’s website.
Students majoring in other disciplines are welcome to minor in Risk Management or Statistics. A minor in Actuarial Studies is also available to eligible students, particularly those majoring in Decision Analytics, Risk Management and Statistics.

**Minor in Actuarial Studies**

The Minor in Actuarial Studies provides students with an introduction to the basic concepts and methodologies of actuarial science. The curriculum is specially designed to boost the interest of students from different majors in actuarial science and to strengthen their confidence and ability to solve a range of mathematical, financial, economic and investment-related problems.

### Introductory Level Courses (12 credits)
- STAT2601 Probability and statistics I
- STAT2602 Probability and statistics II
- STAT2604 Introduction to R/Python programming and elementary data analysis
- FINA1310 Corporate finance
- MATH1013 University mathematics II

### Advanced Level Courses (30 credits)
- At least 30 credits selected from the following courses:
  - STAT3612 Statistical machine learning
  - STAT3615 Practical mathematics for investment
  - STAT3901 Life contingencies I
  - STAT3904 Corporate finance for actuarial science
  - STAT3906 Risk theory I
  - STAT3908 Credibility theory and loss distributions
  - STAT3910 Financial economics I
  - STAT3911 Financial economics II
  - STAT3953 Fundamentals of actuarial practice
  - STAT4903 Actuarial techniques for general insurance

**Minor in Risk Management**

The Minor in Risk Management aims to provide students with the basic concepts of risk management and the fundamental skills needed to perform various statistical techniques to manage risk. The curriculum is specially designed to boost the interest of students from different backgrounds in risk management and to complement their major area of study.

### Introductory Level Courses (12 credits)
- STAT2601 Probability and statistics I
- STAT2602 Probability and statistics II
- STAT2604 Introduction to R/Python programming and elementary data analysis

### Advanced Level Courses (30 credits)
- At least 30 credits selected from the following courses:
  - STAT3609 The statistics of investment risk
  - STAT3610 Risk management and insurance
  - STAT3612 Statistical machine learning
  - STAT3615 Practical mathematics for investment
  - STAT3618 Derivatives and risk management
  - STAT4601 Time-series analysis
  - STAT4603 Current topics in risk management
  - STAT4606 Risk management and Basel Accords in banking and finance
  - STAT4607 Credit risk analysis
  - STAT4608 Market risk analysis

**Minor in Statistics**

The Minor in Statistics is specifically designed to cater for the general needs of non-statistical disciplines and to provide basic training in statistical methodologies and applications to practical problems. Its aim is to provide students with the rigorous quantitative reasoning that has become an indispensable skill in nearly all disciplines.

### Introductory Level Courses (12 credits)
- STAT1018* Foundations of data science
- STAT2601 Probability and statistics I
- STAT2602 Probability and statistics II
- STAT2604 Introduction to R/Python programming and elementary data analysis

### Advanced Level Courses (30 credits)
- At least 30 credits selected from the following courses:
  - STAT3600 Linear statistical analysis
  - STAT3602 Statistical inference
  - STAT3603 Stochastic processes
  - STAT3604 Design and analysis of experiments
  - STAT3606 Business logistics
  - STAT3607 Statistics in clinical medicine and bio-medical research
  - STAT3608 Statistical genetics
  - STAT3612 Statistical machine learning
  - STAT3613 Marketing analytics
  - STAT3617 Sample survey methods
  - STAT3620 Modern nonparametric statistics
  - STAT3921 Statistical data analysis
  - STAT3955 Survival analysis
  - STAT4601 Time-series analysis
  - STAT4602 Multivariate data analysis
  - STAT4610 Bayesian learning

The programme structures of the Minors are subject to change. For the most updated syllabus, please visit the Science Faculty’s website. All courses are 6-credit bearing unless otherwise stated.
There is no better training than obtaining solid hands-on experience in the real workplace. Our Internship Programme serves precisely this purpose. As an intern, the student will gain insight into the challenging world and daily activities of a data analyst, a risk manager and a statistician while strengthening his/her technical, analytical and communication skills.

Under the Internship Programme, students who declare Decision Analytics / Risk Management / Statistics as their First Major are eligible to use the Department’s Internship / Job Online-application System, where related internships and other job openings including graduate positions will be posted. Our alumni may wish to know that normally they will still be eligible to use the System after graduation from our Department.

The Internship Programme assists students by advertising part-time, summer, temporary and full-time internship positions, sending the CVs of interested students to employers, and arranging interviews for shortlisted students. For details about our Internship Programme, please visit: https://saasweb.hku.hk/teaching/internship-details.php

Partial list of companies participating in the Department’s internship programme:
- AXA Insurance
- Bank of China (Hong Kong) Limited
- BNP Paribas
- Census and Statistics Department, HKSAR
- Citibank
- Deutsche Bank AG
- Ernst and Young
- FTSE
- Guy Carpenter
- Hang Seng Bank
- HSBC Life
- Hong Kong Exchange and Clearing Ltd
- Hong Kong Institute for Monetary Research
- Hong Kong Monetary Authority
- Hong Kong Observatory
- Hong Kong Police Force
- Hong Kong Public Libraries Head Office
- Hospital Authority
- JP Morgan Chase & Co
- Microsoft Hong Kong Limited
- SAS Institute
- Standard Chartered Bank

Student Sharing

Laio Ka Chon BSc (Major in Risk Management)
Census and Statistics Department (2021)

In this internship period, I learnt to prepare the job interview in a better way. If students want to apply for a position, they should find out the company’s nature and required knowledge. They can think of the challenged questions which is possible to be asked by the interviewers. For students who wish to apply for similar positions to it, they should understand themselves and strengthen their advantages in data processing. And students can keep learning new technical skills, for example the programming skills which is beneficial in the statistic related working field. During the job period, I learnt to ask question in a proper way and not to work on tasks under the situation that something is unclear. It would waste time and effort if we misunderstand the need of the tasks. Students should not be afraid of asking simple questions and try to understand all the details.

Au Chun Fai BSc (Major in Risk Management)
AIA Company Limited, Hong Kong (2021)

The Department gave us lots of opportunities to learn, to improve, and to breakthrough. But what is vitally important is that whether we grab each of the chance and go for it. Internship is our opportunity to prove ourselves, to challenge to our limits and to utilize what we have learnt. Study and practice have an invisible link with each other. We may think we are a well-educated intellectual, but we can only see our weaknesses through real-life practice.

HKU Worldwide Undergraduate Student Exchange Programme

HKU’s Worldwide Undergraduate Student Exchange Programme offers opportunity for students in world-renowned universities such as Harvard University, Columbia University, McGill University, the University of Toronto, the University of California at Berkeley, Davis, Santa Barbara and Los Angeles, the University of Melbourne, the University of British Columbia, the University of New South Wales, the University of Amsterdam, Georgetown University and the University of Waterloo. The following are messages from some of the Department’s former exchange students.

Qian Zhaozhi BSc (Major in Statistics)
Exchange at University of California, Davis, USA, 2014

Living in another country definitely allows you to immerse yourself in another culture that you are not familiar with. I could never imagine that trains could be routinely delayed for an hour, that people could have their meals at random times and that could people work so hard. The US also has a totally different learning environment from Hong Kong. A combination of six-hour lessons and eight hours of homework is definitely harder. Students at Harvard don’t really have too much time for entertainment. Instead, we just spent time together at weekends in a cafe, pub or park or stayed in the dormitory. The experience granted me an opportunity to meet people from all over the world.

Li Ka Ho BSc (Major in Risk Management)
Exchange at Harvard University, USA, 2012

So far, my exchange experience at UC Davis is certainly memorable. I feel proud and lucky that I had such an opportunity to explore a different culture. Everything was fresh. Davis is a place just 20 minutes by car from the nearest Walmart. It is also a place where you could enjoy a 2000-square-meter state-of-the-art gym all year round. The majority of the people in town work for the University, making Davis one of the most educated and safest towns in the US. Collaboration and problem-solving skills are highly emphasized. It was beyond my imagination that students are allowed to solve problems in written assignments in groups. Statistics there was pragmatic. Students got hand-on experience in investigation design and data analysis. The exchange was eye opening and rewarding. I think I made a wise choice to go exchange in UC Davis.

Chan Chin Kiu BSc (Major in Risk Management)
FWD Life Insurance Company (Bermuda) Limited (2022)

An internship helps one to gain a good insight in how the industry works and allows one to grow. During my internship period, I was awarded with new knowledge such as user acceptance testing and programming. These are some essential skills in the statistics-related working field, ensuring the system in the company can be implemented appropriately. By extending the lectures into reality, one can learn to manage and perform tasks within the company professionally.

Moreover, internship opportunities enhance one’s personal growth and development. Through asking questions and communicating with other interns and staff, I have learnt to be a better communicator, as well as taking efficiently and effectively to bring out my message. Also, I have understood the importance of finishing tasks in a timely manner, as it may affect others’ working schedules since we are working as a team. Internship therefore trains your attitude and manner towards work.

An internship experience is useful as it helps one to discover his strengths and weaknesses, which leads to self-understanding. Through practical experiences, I further develop and provides one guidance of the future career path, influencing future goals and accomplishments.

All in all, internship programmes are valuable for students in University. Not only do you learn new skills and knowledge, they also promote personal growth and develop your future career. Treasure each of the opportunities to explore your future dreams and goals.

Lau Ho Lam BSc (Major in Risk Management)
Prudential Services Limited (2022)

I have been working in Prudential for 6 months and it is a valuable experience for me to learn on site. I was interning in the EEV reporting team which helps to conduct EEV report on regular basis. It allows me to learn more in-depth about how insurance company are showing their business performance to the public and different types of reporting standard. It is also a great opportunity to meet new people, managers and fellow interns. The managers are so supportive and nice. I have also made friends with interns from different teams and different universities.

We can share our experience working in different positions.
Many scholarships are available to our students in each year of study. The following are examples of some of the scholarships which have been awarded to our students.

### Scholarships

**Dr Patrick S C Poon Scholarship in Statistics**

In 2012, Dr Patrick S C Poon made a generous pledge to the University of Hong Kong to establish four scholarships in support of outstanding undergraduates who wish to pursue studies in Decision Analytics, Risk Management or Statistics in the Department of Statistics and Actuarial Science. The scholarships will be awarded annually on the basis of academic merit to final-year candidates pursuing a first major in Decision Analytics, Risk Management or Statistics. In addition, a candidate’s participation in extra-curricular activities and his/her performance in an interview, if arranged by the Selection Committee, will also be treated as helpful supplementary information in the selection process. Each scholarship is valued at HK$50,000, and is awarded on a non-renewable basis.

**Saw Prize in Statistics**

To commemorate his 1969-71 stay at the University and to promote the development of statistics, Professor Saw pledged to establish a prize to be awarded in recognition of the academic achievement of BSc graduates whose first majors are in the Department of Statistics and Actuarial Science. Two awards of HK$5,000 each shall be awarded annually on the basis of academic merit.

**Statistics and Actuarial Science (SAAS) Scholarships**

In addition to the aforementioned university-wide scholarships, 28 scholarships, each worth between HK$4,000 and HK$20,000, are made available each academic year by the Department of Statistics and Actuarial Science. The Department awards these scholarships annually on the basis of academic merit to outstanding students in different years of study who are pursuing a BSc degree in Actuarial Science or a first major in Decision Analytics, Risk Management or Statistics.

For more details about the Department’s scholarships, please visit: [https://saasweb.hku.hk/programme/scholarship.php](https://saasweb.hku.hk/programme/scholarship.php)

**For details about all HKU’s scholarships, please visit: [https://www.scholarships.hku.hk](https://www.scholarships.hku.hk)**

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**Prizes & Bursaries**

Many scholarships are available to our students in each year of study. The following are examples of some of the scholarships which have been awarded to our students.

- C.V. Starr Scholarship
- Centenary Scholarship Fund Award
- CMA and Donors Scholarship
- HKSAR Government Scholarship
- HKU-Notre Dame Scholarships for Student Exchange
- HKU Class Giving Scholarship
- HKU Foundation Entrance Scholarship
- HKU Foundation Entrance Scholarships for President’s Scholars
- HKU Foundation Scholarships for Outstanding International Students
- HKU Foundation Scholarships for Outstanding Mainland Students
- HKU Foundation Scholarships for Outstanding Students
- HKU Worldwide Undergraduate Student Exchange Scholarships
- Ho Kam Chiu Lo Lai Ching Memorial Scholarship
- HSBC Hong Kong Scholarship
- Koi Chong Tong Scholarship
- Lee Shau Kee Scholarships
- Lee Shau Kee Scholarships for Student Enrichment
- Li Po Chun Chantable Trust Fund Undergraduate Scholarship
- Science Entrance Scholarship
- Sports Scholarships
- The Bank of East Asia Scholarship

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**Student Society**

The Statistics and Actuarial Science Society (SASS) has been serving students of the HKU Department of Statistics and Actuarial Science since its establishment in 1969. Over the years, the student society has grown into a large family with thousands of members.

The SASS has dedicated itself to promoting the study of actuarial science, decision analytics, risk management, statistics and applied artificial intelligence. It also serves to provide a sense of unity, promote the welfare of its members and maintain a harmonious relationship between staff members and students.

Every year, the SASS organises a variety of functions, including the alumni mentorship scheme, annual dinner, annual survey, firm visits and many more. The SASS works closely with the Department and serves its members with enthusiasm. They strive in the best interests of their members and aim to ensure they enjoy a fruitful and joyful university life.

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**Alumni Mentorship Scheme**

The alumni mentorship scheme provides two-way communication between mentors and mentees. Through regular gatherings and mutual sharing, mentees can learn from their mentors’ life experience and, at the same time, better understand the employment situation and their career prospects. In return, mentors receive up-to-date information on the current student population, the Statistics and Actuarial Science Society, the Department and the University at large. Mentors also enjoy opportunities to become acquainted with their counterparts working in similar fields.
The Department of Statistics and Actuarial Science has introduced the Career Advising Programme (CAP) to help students pinpoint their strengths and weaknesses in terms of interview/CV writing skills and better prepare students to seize career opportunities readily. Besides one-to-one career consultation, the CAP will organise other career-related activities to deepen students’ understanding of the industries.

The following is a non-exhaustive list of services and activities provided under the CAP:
- Tailored consultation on CV and cover letter writing
- One-to-one or group consultation on interview skills, e.g. mock interview
- Tailored modules of Professional Preparation Programme (PPP)
- Career talks
- Company visits
- Alumni sharing
- Corporate Mentorship Programme

Career Prospects

The world is becoming increasingly quantitative and data-focused in nature. Many professions depend on statistical knowledge to make decisions in the midst of economic uncertainty and operational crises. As the demand for quantitative and analytical skills continues to rise in virtually every field, an increasing number of talents in decision analytics, risk management and statistics will be needed within the private and public sectors in the society. Our majors provide a comprehensive training for those who wish to follow a career path in this direction.

Our graduates readily find employment in various sectors, including but not limited to the government, banking, finance, risk management, insurance, IT, marketing research, healthcare, hospitals, environmental protection, scientific research, academia and other related sectors in which statistical and analytical expertise is needed due to the data-driven environment nowadays. They often play important roles in large-scale, multidisciplinary projects involving data analytics, providing guidance on all aspects of data collection and producing objective findings. Our graduates are also sought after by top graduate schools and research firms worldwide.

In this new era of big data, it is projected that job opportunities in decision analytics, risk management and statistics will remain favourable in the foreseeable future.

To date, our graduates have found employment in the following organisations [positions in brackets]:
- ABN AMRO N.V., Private Banking [Special Products Assistant]
- Acorn
- Aviva General Insurance Limited [Analyst]
- Bank of Communications [Credit Analyst]
- Census and Statistics Department, HKSARG [Comissioner / Senior Statistician / Statistician / Research Manager]
- Citibank (Hong Kong) Limited [Vice President]
- DKR Oasis, HK (Product Controller) First Shanghai Capital Limited [Strategist]
- FTSE
- Hang Seng Bank [Assistant Database Marketing Manager, Knowledge Management Department]
- Hong Kong Exchanges and Clearing Limited [Senior Officer]
- Hong Kong Monetary Authority [Senior Manager]
- Hospital Authority [Research Officer]
- HSBC [Assistant Manager, Campaign Management, Marketing]
- HSBC [Credit and Risk Manager, Asia Pacific Consumer Credit Risk]
- Independent Commission Against Corruption
- Magna Finance Limited [Financial Analyst, Investment]
- Marketing Decision Research (Pacific) Limited [Senior Research Executive]
- Pacific Century Insurance Company Limited [Actuarial Analyst]
- SAS Institute Limited [Senior Analyst]
- Sun Life Financial [Analyst]
- Synovate China Limited [Market Researcher]
- Willis Towers Watson [Analyst]

Employment Statistics of 2021 Graduates

<table>
<thead>
<tr>
<th>Employment Sectors of Graduates</th>
<th>DA</th>
<th>RISMG</th>
<th>STAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commerce &amp; Industry</td>
<td>100%</td>
<td>91.3%</td>
<td>80%</td>
</tr>
<tr>
<td>Civil Service</td>
<td>0.0%</td>
<td>4.35%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Community, Social &amp; Personal Service</td>
<td>0.0%</td>
<td>4.35%</td>
<td>20%</td>
</tr>
<tr>
<td>Educational Institutions</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Salary (Gross Monthly Income)</th>
<th>DA</th>
<th>RISMG</th>
<th>STAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean HK$25,977</td>
<td>HK$23,070</td>
<td>HK$20,950</td>
<td></td>
</tr>
<tr>
<td>Median HK$20,000</td>
<td>HK$20,000</td>
<td>HK$21,000</td>
<td></td>
</tr>
<tr>
<td>Maximum HK$43,333</td>
<td>HK$70,000</td>
<td>HK$25,200</td>
<td></td>
</tr>
<tr>
<td>Minimum HK$17,000</td>
<td>HK$15,000</td>
<td>HK$16,000</td>
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</tbody>
</table>

* DA, RISMG and STAT stand for Decision Analytics, Risk Management and Statistics respectively.
Over the four years growing with SAAS, I have learned an incredible amount both academically and professionally. Professors are kind and willing to help, not just in the classroom. A fulfilling research journey awaits if you actively approach them, and the invaluable advice will guide you to the right path. Career advising and professional engagement are among the highlights as well. There is a wide array of internship opportunities along with company visits and corporate mentorship, thanks to the department’s network. Most importantly, the program offers the flexibility to explore what fits you the most. I’m grateful to have spent a summer researching quantitative trading and another working in data analytics. The experiences brought me clarity about my future career.

When I reflect on my four years in the University of Hong Kong BSc(4) program, I conclude that the experience not only made me a better student, but also prepared me to be a confident, independent, and open-minded gift. Through the BSc Program, I met the professors with a wide range of knowledge. Also, with the incredibly supportive classmates and teamworking opportunities, these form a wonderful memory in my life, and the best educational experience I have had. Having been shaped in part by the collegial and creative, yet rigorous, environment at HKU, I found myself able to communicate, innovate, and collaborate in ways that enabled me to build a successful communications consulting practice, independent thinking ability and eventually to get my dream job – the investment analyst in an Asset Management Firm in central.

Other Information

Computing Facilities

One of the primary aims of our majors is to equip students with powerful mathematical, analytical and computational skills, all of which are in great demand in practical areas where data are gathered and analysed to support the decision-making process.

The Department of Statistics and Actuarial Science currently houses a large state-of-the-art computer laboratory, supplemented by a smaller one, both of which are equipped with up-to-date statistical software for teaching and learning and research purposes.

World-class Research and Excellence in Teaching and Learning

Since its establishment in 1967, the HKU Department of Statistics and Actuarial Science has always dedicated itself to reaching world-class standards with aspirations to be an international centre of excellence for both research and teaching and learning (T&L). Underpinning this enduring dedication is the Department’s dynamic research profile with wide-ranging areas of expertise. Over the years, the Department has been awarded General Research Fund (GRF) grants by the University Grants Committee (UGC) to undertake numerous research projects in statistics and actuarial science.

According to the UGC’s Research Assessment Exercise (RAE) 2020, we ranked No.1 in terms of the percentage judgment of research profile of research, out of seven comparable units of assessment for Mathematics and Statistics. Our impact and environment sub-profiles even reach 100% of 4-star quality, i.e. outstanding in terms of reach and significance, and world-leading in terms of vitality and sustainability respectively, as defined by the UGC.

Our Teaching Staff and Research Fields

To find more information on our teaching staff and their research fields, please visit: https://saasweb.hku.hk/research/staff_interest.php
Admissions Requirements

Students who wish to pursue Majors in Decision Analytics, Risk Management or Statistics can apply for entry to HKU’s BSc programme (code: 6901). Under its ‘Single Admission Policy’, students will be provided with a choice of 14 Science Majors and 7 Intensive Majors, and may change their Major and Minor during their study.

JUPAS Stream
Minimum level required for JUPAS candidates:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language</td>
<td>Level 3</td>
</tr>
<tr>
<td>Chinese Language</td>
<td>Level 3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Level 2</td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>Level 2</td>
</tr>
<tr>
<td>Elective Subjects: Category A subjects and Extended Module 1 or 2 in Mathematics (M1/M2)</td>
<td>Level 3 in 2 elective subjects*</td>
</tr>
</tbody>
</table>

* One of the elective subjects must be a Science subject: Biology, Chemistry, Physics, Combined Science, or Integrated Science

More Information
For more information, please visit our website:
https://saasweb.hku.hk/programme/programme.php

NON-JUPAS Stream
Students holding non-HKDSE qualifications are considered individually.

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