



數學、統計及保險學系
DEPARTMENT OF MATHEMATICS,
STATISTICS AND INSURANCE
香港恒生大學
THE HANG SENG UNIVERSITY
OF HONG KONG



Master of Science in
Risk Analytics
風險分析理學碩士

Master of Science in **Risk Analytics** (MSc-RA)* 風險分析理學碩士*

2025/26 學年 現正招生

* 本課程已獲香港學術及職業資歷評審局評定符合資歷架構第六級的标准，正等待香港行政长官会同行政会议批准开办。

* The programme has been determined by HKCAAVQ to meet the QF standards at Level 6. Subject to the approval by the Chief Executive in Council, the programme can be offered as an accredited programme.

Programme Overview 课程特色

In a rapidly changing world, risks are more prevalent than ever. It is therefore important to develop a proper mindset to analyze them and hence effectively control the potential loss to an acceptable level. The Master of Science in Risk Analytics (MSc-RA) programme* is specifically designed for nurturing talents with the relevant skillsets. The Programme aims to:

- provide advanced knowledge in data analytics and risk management
- polish students' ability to deal with complex real-life risk-related problems with appropriate data analytics tools
- nurture competent and ethical professionals in various disciplines in financial and public sectors

当今世界瞬息万变，风险比以往任何时候都更加常见。因此，培养分析风险的合适思维并由此将潜在损失控制在可承受的范围便显得尤为重要。风险分析理学硕士课程*的设计初衷正是为了培养具有相关技能的人才。该课程致力于：

- 教授数据分析及风险管理领域的进阶知识
- 锻炼学生使用合适的数据分析工具，处理现实情境中复杂的风险相关问题的能力
- 为金融和公共服务界的众多领域培养具有竞争力和职业道德的专业人士

* 本课程已获香港学术及职业资历评审局评定符合资历架构第六级的标准，正等待香港行政长官会同行政会议批准开办。

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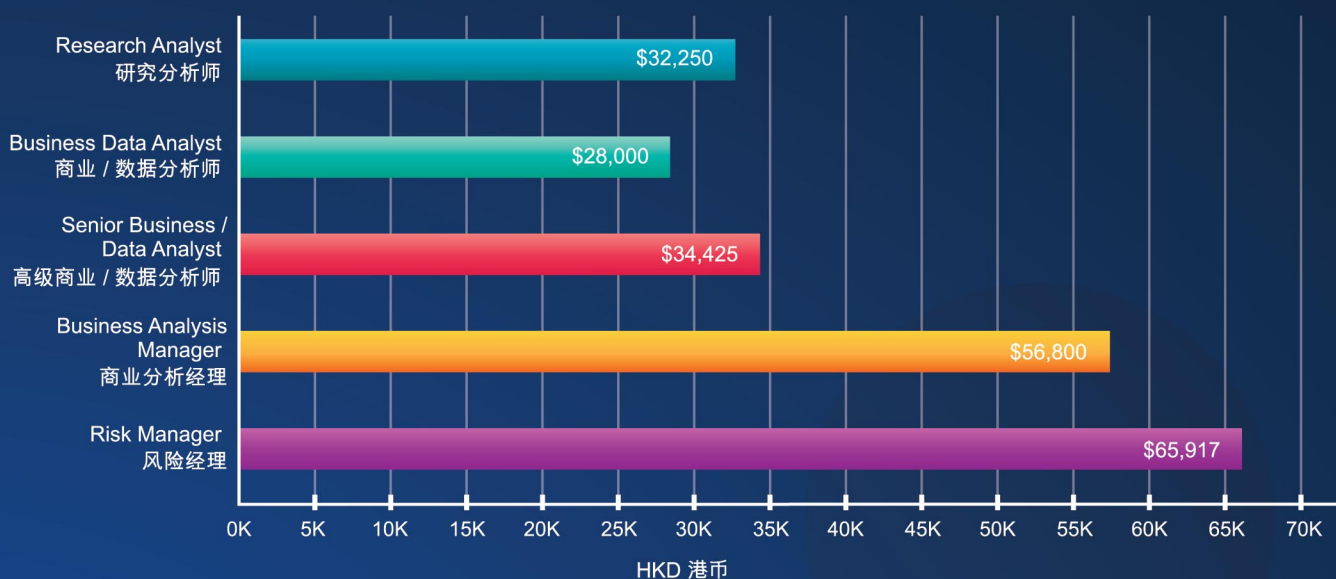
Career Prospect 就业前景

Data analytics and risk management have been increasingly useful in disciplines that deal with data and risk, including but not limited to financial institutions, government authorities and IT companies/departments, hence there is a large demand of talents in risk analytics. Some representative career prospects and their average salaries are as follows.

在与数据及风险相关的领域中，数据分析和风险管理的实用性正不断增强，这些领域包括但不限于金融机构、政府机关和资讯科技公司及部门，因此对风险分析人才的需求相当大。下图列出部分具有代表性的就业前景及其平均工资水平。

Reference Salary 薪酬参考

Average Monthly Salary in 2024
2024年平均月薪



Source 数据来源 : Job Seeker Salary Report 2024

Programme Curriculum 课程结构



Graduation Requirements 毕业要求

To be eligible for the award of the Master of Science in Risk Analytics*, students are required to:

1. complete and obtain a Grade D or above on at least 8 modules (24 credits), including five core modules and three elective modules; and
2. obtain a minimum cumulative GPA of 2.0.

学生需符合以下毕业要求，方可获颁风险分析理学硕士学位*：

1. 完成至少24学分（8个单元）并取得D级或以上成绩，包括五个必修单元和三个选修单元；和
2. 累积平均积点（GPA）达到2.0或以上。

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Profiles 师资力量

陈伟森 教授 美国天普大学博士 精算建模，商业预测，金融计量经济	Wai Sum CHAN, Professor PhD (Temple) Actuarial Modeling, Business Forecasting, Financial Econometrics
蔡少佳 教授 香港浸会大学博士 数据挖掘，机器学习，影像处理	Siu Kai CHOY, Professor PhD (HKBU) Data Mining, Machine Learning, Image Processing
吴伟亮 课程主任 助理教授 香港中文大学博士 变点分析，自助重抽样法，时间序列分析	Tom NG, Programme Director, Assistant Professor PhD (CUHK) Change-point Analysis, Bootstrap Resampling, Time Series
陈永钊 课程副主任 助理教授 香港大学博士 信度理论，金融数学，数据分析，保险科技，机器学习	Yongzhao CHEN, Associate Programme Director, Assistant Professor PhD (HKU) Credibility Theory, Financial Mathematics, Data Analytics, InsurTech, Machine Learning
朱冠麟 课程副主任 讲师 香港科技大学博士 水平集方法，图像处理，偏微分方程的数值解	Alan CHU, Associate Programme Director, Lecturer PhD (HKUST) Level Set Method, Image Processing, Numerical Solution of Partial Differential Equations
冯颖康 副教授 香港中文大学博士，北美精算师，北美特许企业风险分析师 保险法规，风险管理，保险公司企业财务	Derrick FUNG, Associate Professor PhD (CUHK), FSA, CERA (Society of Actuaries) Insurance Regulation, Management, Corporate Finance for Insurers
林树仁 副教授 香港城市大学博士 数据挖掘，无监督学习，监督学习， 影像处理，医学影像处理，模式识别	Benson LAM, Associate Professor PhD (HKCityU) Data Mining, Unsupervised Learning, Supervised Learning, Image Processing, Medical Image Processing, Pattern Recognition
李颖欣 副教授 加拿大滑铁卢大学博士，北美准精算师 风险理论，保险和金融的随机模型	Becky LEE, Associate Professor PhD (Waterloo), ASA (Society of Actuaries) Risk Theory, Stochastic Models for Insurance and Finance
梁景泰 高级讲师 香港浸会大学博士 影像处理，超解析度图像重建， 分形图像压缩，图像检索	Jacky LEUNG, Senior Lecturer PhD (HKBU) Image Processing, Super-resolution Image Reconstruction, Fractal Image Compression, Image Retrieval
廖雅威 讲师 美国罗彻斯特大学博士 微分几何，数学物理	William LIU, Lecturer PhD (Rochester) Differential Geometry, Mathematical Physics
罗果 助理教授 美国俄亥俄州立大学博士 科学计算，精算保险模型，金融数学， 计算流体动力学，有限时间奇点的形成	Guo LUO, Assistant Professor PhD (Ohio State) Scientific Computing, Actuarial/Insurance Modeling, Financial Mathematics, Computational Fluid Dynamics, Formation of Finite-time Singularities
毛怡琳 高级讲师 香港中文大学博士 删失资料分析，顺序统计学	Elaine MO, Senior Lecturer PhD (CUHK) Censored Data, Order Statistics
吴自添 助理教授 香港中文大学博士 时间序列分析，变数选择，复合似然法， 随机分析，期权定价理论	Timothy NG, Assistant Professor PhD (CUHK) Time Series Analysis, Variable Selection, Composite Likelihood Methods, Stochastic Calculus, Option Pricing Theory
萧志中 副教授 日本东京都立大学博士 随机控制，精算数学，金融数学， 运筹学，随机微分博弈	Chi Chung SIU, Associate Professor PhD (TMU) Stochastic Control, Actuarial Mathematics, Financial Mathematics, Operations Research, Stochastic Differential Games
徐颖恩 讲师 香港浸会大学博士 逆散射理论，机器学习，波动成像， 偏微分方程，隐形理论	Wing Yan TSUI, Lecturer PhD (HKBU) Inverse Scattering Theory, Machine Learning, Wave Imaging, Partial Differential Equations, Invisibility
余国惠 副教授 香港理工大学博士，英国皇家统计学会特许统计师 资产管理，风险管理，金融优化理论，期权定价	Carisa YU, Associate Professor PhD (HKPolyU), CStat (RSS) Asset Management, Risk Management, Financial Optimization, Option Pricing
吴燕 高级讲师 华南理工大学硕士，美国爱荷华大学硕士，北美精算师 医疗保险，保险准备金，财务申报， 保险产品保费计算，保险风险管理	Michelle WU, Senior Lecturer MSc (SCUT), MSc (Iowa), FSA (Society of Actuaries) Medical Insurance, Insurance Reserving, Financial Reporting, Insurance Product Premium Calculation, Insurance Risk Management

Admission Requirements 入学要求

1. A bachelor's degree in science, technology, engineering, mathematics, finance, economics, or related disciplines from a recognised university; and
2. Fulfilment of one of the following English language proficiency requirements if the applicant's bachelor's degree was not obtained from a university/tertiary institution where English is the medium of instruction:
 - TOEFL \geq 550 (paper-based), \geq 79 (Internet-based);
 - IELTS \geq 6.0;
 - CET 6 \geq 430 or "Pass" if the test was taken before June 2005;
 - TEM-4 \geq 70;
 - OR an equivalent qualification.

1. 具备获认可大学的理学、技术、工程、数学、金融、经济或相关专业的本科学位；及
2. (若申请人毕业的大学并非以英语授课) 以下任何一项英语语言能力要求：
 - 托福 \geq 550 (笔试), \geq 79 (网考)；
 - 雅思 \geq 6.0；
 - 大学英语六级考试 \geq 430 或 "合格" (仅适用于2005年6月前)；
 - 英语专业四级考试 \geq 70；
 - 或与上述条件同等的资历

Tuition Fee 学费 (2025/26)

HK\$ 172,800 (24 credits in total)

港币172,800元 (总计24学分)

Mode of Study 学制

Full time (1 year) 全日制 (1年)

Part time (2 years, local students only) 兼读制 (2年, 仅限本地生)

Medium of Instruction 授课语言

English 英语

Admission Enquiries 入学查询

Email 电邮 : ra@hsu.edu.hk

Tel. 电话 : +852 3963 5231/ 3963 5004

Homepage 主页 : <https://msi.hsu.edu.hk/ra>

WhatsApp



WeChat 微信



Website



In case of any discrepancy between the English and Chinese versions of this leaflet, the English version shall prevail.

本课程简介以英文版为准, 中文译本仅供参考。

The Hang Seng University of Hong Kong is incorporated in Hong Kong with limited liability by guarantee.

香港恒生大学是一间于香港注册成立之担保有限公司。

Information updated as of September 2024.

有关资料更新至2024年9月。