

课程设置及要求 Course Requirements

数据科学理学硕士项目的学生需在学习期限内完成 5 门必修课和 5 门选修课，每门课程 3 个学分；并在学术或业界导师的指导下，完成 6 个学分的毕业项目。学生毕业时需完成共计 36 个学分。

Students need to complete 5 required courses and 5 elective courses offered in the regular terms within the normative study period. Each course carries 3 credits. Students will also complete a capstone project supervised by academic faculty or industrial supervisors. The capstone project carries 6 credits. Students should complete total 36 credits in order to graduate.

必修课 (共计 6 门 / 21 个学分) Required courses: (6 courses / 21 units)		
统计学理论	数据挖掘入门	数据库原理与开发
机器学习	时间序列分析	毕业项目 (6 学分)
Theory of Statistics	Introduction to Data Mining	Database Principles and Development
Machine Learning	Time Series Analysis	Capstone Project (6 units)
选修课 (选修 5 门 / 15 个学分) Electives courses: (Select 5 courses / 15 units)		
应用回归分析	应用并行编程	创新设计思考方法论
应用多元方法	大数据建模与管理	动态规划
贝叶斯分析入门	网路数据分析	深度学习及其应用
数值算法分析	数据驱动实验设计与衡量	优化理论与算法
人工智能	数据可视化入门	市场微观结构与算法交易
优化理论入门	运营管理与分析	信用风险建模与产品
信息论及编码	市场营销管理与分析	中国公司管治与社会责任
图像处理与计算机视觉	金融分析	博弈论与拍卖理论
分布式系统入门	经济分析	
Applied Regression Analysis	Applied Parallel Programming	Design Thinking for Innovation
Applied Multivariate Methods	Big Data Modeling and Management	Dynamic Programming
Introduction to Bayesian Analysis	Web Analytics	Deep Learning and Their Applications
Analysis of Numerical Algorithms	Data-Driven Experimentation and Measurement	Optimization Theory and Algorithms
Artificial Intelligence	Data Visualization	Microstructure and Algorithm Trading
Introduction to Optimization	Operations Management and Analytics	Credit Risk Modeling and Products
Information Theory and Coding	Marketing Management and Analytics	Corporate Government and Social Responsibility in China
Image Processing and Computer Vision	Financial Analytics	Game Theory and Auction Theory
Introduction to Distributed Systems	Economic Analytics	

*备注：课程安排以最终开课为准。

*Note: The courses offered are subject to change.

招生对象 Target Group

理工和经济金融等专业的毕业生，并掌握扎实的数理及编程基础知识。

Graduates in science, engineering, finance, economics or other related majors; have good knowledge of mathematics, statistics and / or programming.

申请要求 Admission Requirements

申请入学的学生需满足下列学历与成绩要求

- 毕业于认可的大学或机构，具有学士学位，成绩不低于 B (GPA 3.0 / 4.0 或 80 分 / 100 分)，或同等学历。

申请人还需满足以下一项英语水平要求
(需提交英语水平证明文件)

- 托福 (网考不低于 79 分; 学校代码: B429)，或
- 雅思 (学术类) (不低于 6.5 分)，或
- 研究生管理科学入学考试 GMAT (阅读) (不低于 21 分)，或
- 获得香港或英语为母语国家的相关学位或专业证书。

All applicants must fulfill the following qualifications for admission:

- Graduated from a recognized university and obtained a Bachelor's degree, normally with honours not lower than Second Class; or achieving an average grade of not lower than "B" (GPA 3.0 / 4.0 or 80 / 100) or similar qualifications equivalent to an honours degree.

All applicants must fulfill the English Language Proficiency Requirement:

- TOEFL (normally not lower than 79 internet-based, TOEFL code of CUHKSZ: B429); or
- IELTS (Academic) (normally not lower than Band 6.5); or
- GMAT (Verbal) (normally not lower than 21); or
- Have a degree from a recognized university or obtained a recognized professional qualification awarded in Hong Kong or an English speaking country.

申请程序及申请截止时间 Application Procedure & Deadlines

申请方式 Application Method

申请者需登录研究生院网上申请系统 (<http://www.cuhk.edu.cn/matrix-base/gs/login>) 提交申请并上传所需申请材料的扫描件 (PDF 格式)。申请费用为人民币 300 元, 通过网上申请系统支付, 不予退款。

Applicants are required to pay a non-refundable application fee of RMB300. Supporting documents (pdf files) are also required to be submitted online (<http://www.cuhk.edu.cn/matrix-base/gs/login>).

(INTERNATIONAL STUDENTS ONLY) Please send all the required documents (pdf files) in one package via email to mcsds@cuhk.edu.cn, and pay the application fee US\$48 (non-refundable) via bank transfer. (Click to download the application form via <http://mcsds.cuhk.edu.cn/en/index.php?catid=18>)

申请资料 Required Documents

- 在线填写申请表并下载电子版
- 学历证明 (毕业证和学位证或在读证明)
- 官方成绩单 (中文或英文, 盖有毕业院校公章)
- 英语水平证明
- 2 封推荐信 (系统将自动发邮件给推荐人邮箱)
- 身份证扫描件
- 个人陈述和简历 (英文)
- 其他支持性文件 (获奖证书等)
- A complete application form
- Bachelor's degree certificate (s)
- Official transcript (s)
- Proof of English language proficiency
- Two recommendation letters
- Copies of identity card or passport
- Personal statement and CV (MUST IN ENGLISH)
- Other supporting documents (Honor certificates etc.)

*注意: 推荐信须由推荐人直接回复 email 至项目组邮箱。

*Note: Confidential recommendation letters need to be sent directly by referees to the programme email address (mcsds@cuhk.edu.cn).

申请人应在申请截止日期之前递交申请资料, 入围者将适时获邀参加面试。

Applicants should submit their applications before the deadlines. Shortlisted candidates will be invited to attend programme interview in due course.

开始时间 Starting Date	截止时间 Closing Date
2018 年 9 月 1 日 01/09/2018	2019 年 6 月 30 日 30/06/2019



学费及奖学金 Tuition Fee and Scholarship

数据科学理学硕士项目的全部学费为人民币 180,000 元。

入学奖学金将择优发放给符合资格之申请人。

The tuition fee for the MSc in Data Science Programme is RMB180,000. Merit-based admission scholarships are granted to qualified candidates.

入学奖学金 Admission Scholarships:

等级 Tier	金额 Amount
全额奖学金 Full Scholarship	人民币 (RMB) 180,000
半额奖学金 Half Scholarship	人民币 (RMB) 90,000
一等奖学金 Tier-1 Scholarship	人民币 (RMB) 60,000
二等奖学金 Tier-2 Scholarship	人民币 (RMB) 30,000
三等奖学金 Tier-3 Scholarship	人民币 (RMB) 10,000





实验室资源 Lab Resources

- 深圳市机器人与智能制造工程重点实验室
(国家级工程实验室)
- 深圳市大数据研究院(孔雀团队)
- 深圳市半导体激光器重点实验室
- 深圳市物联网智能系统与无线网络技术重点实验室
- 香港中文大学(深圳)瓦谢尔计算生物研究院
(诺贝尔奖科学家实验室)
- 香港中文大学(深圳)科比尔卡创新药物开发研究院
(诺贝尔奖科学家实验室)
- 香港中文大学(深圳)切哈诺沃精准和再生医学研究院
(诺贝尔奖科学家实验室)
- 香港中文大学(深圳)霍普克洛夫特先进计算研究院
(图灵奖科学家实验室)
- 香港中文大学(深圳)
- 京东集团人工智能联合实验室
- 香港中文大学(深圳)
- 腾讯 AI Lab 机器智能联合实验室
- 纳米光电实验室
- 网络编码研究团队
- 应用自旋电子实验室
- 能源互联网实验室
- 数据建模分析与应用实验室
- 无线通信网络实验室
- 通信信号处理与优化实验室
- Key Lab of Robotics and Intelligent Manufacturing
(State First-class Laboratory)
- Shenzhen Research Institute of Big Data
(Shenzhen Peacock Team)
- Shenzhen Key Lab of Semiconductor Lasers
- Shenzhen Key Lab of IoT Intelligent System and
Wireless Network Technology
- Arieh Warshel Institute of Computational Biology,
the Chinese University of Hong Kong, Shenzhen
(Nobel Laureate Lab)
- Kobilka Institute of Innovative Drug Discovery,
the Chinese University of Hong Kong, Shenzhen
(Nobel Laureate Lab)
- The Ciedanover Institute of Precision and
Regenerative Medicine, the Chinese University of
Hong Kong, Shenzhen (Nobel Laureate Lab)
- Hopcroft Institute for Advanced Study in Information
Sciences, the Chinese University of Hong Kong,
Shenzhen (Turing Award Lab)
- CUHK (SZ) - JD Joint AI Lab
- CUHK (SZ) - Tencent AI Lab Joint Laboratory of
Machine Intelligence
- Nanophotonics Lab
- Network Coding Research Group
- Applied Spintronics Lab
- Energy Internet Lab
- Data Modeling Analysis and Application Lab
- Wireless Communication Lab
- Signal Processing and Optimization Lab



企业合作伙伴 Industrial Partners

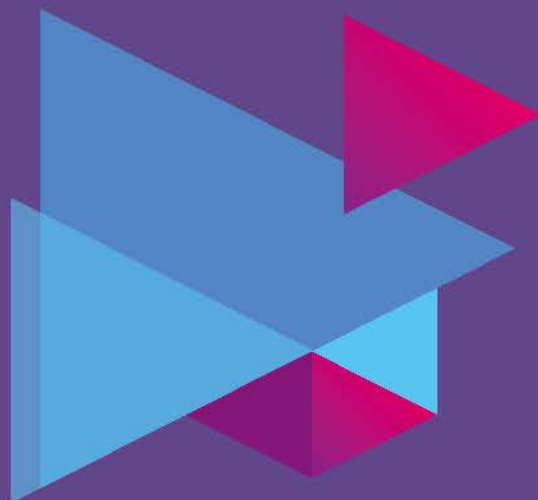


爱拼网 iPIN	平安 Gamma 美国研究院(纽约)
博普资产	Paradete Fund(新加坡)
CMCRC(悉尼)	商汤科技
达实智能	深圳启元信息服务公司
霍尼韦尔(中国)	腾讯
华为	天弘基金
恒生电子	WeLab 集团
嘉实基金	英语流利说
金蝶软件	中兴力维
Morningstar	中国移动
平安集团	中国工商银行

iPIN	One Connect US Research Lab (New York)
Bopu Asset	Paradete Fund(Singapore)
CMCRC(Sydney)	SenseTime
Das Intellitech	Qiyuan Fintech
Honeywell(China)	Tencent
Huawei	Tianhong Asset Management
Hundsun Technologies	WeLab Group
Harvest Fund	Liulishuo Education
Kingdee	ZET Net
Morningstar	China Mobile
Ping An Group	Industrial and Commercial Bank of China

按照拼音排名, 不分先后
There is no order of precedence, the sequence is listed by
alphabetical order by pinyin

* 企业合作伙伴持续更新。
* New partners will be updated continually...



Theory of Statistics Time Series Analysis
Machine Learning Capstone Project
Data Science Introduction to Data Mining



2019
MSc in Data Science
Programme

THE CHINESE
UNIVERSITY OF
HONG KONG,
SHENZHEN

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