

MASTER OF SCIENCE IN DATA SCIENCE

数据科学 理学硕士课程

ENQUIRIES 信息及咨询

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官方网站
Website

N.edu.hk/sds/dai/msdds



微信公众号
Wechat



小红书
Little Red Book



微博
Weibo



在线申请系统
Online Application System



**SHANGHAI
RANKING**

2025软科
人工智能学科排名
NO.151-200

DIVISION OF ARTIFICIAL INTELLIGENCE

ABOUT US

关于我们



《泰晤士高等教育大学影响力排名》
岭南大学荣膺
「优质教育」全球第一



《泰晤士高等教育大学世界排名》
国际展望全球第47位



《上海软科世界一流学科排名》
岭南大学跻身人工智能学科
全球首151-200位



《泰晤士高等教育大学世界排名》
岭南大学跻身
全球首301-350位

School of Data Science

数据科学学院

The School of Data Science at Lingnan University delivers a holistic data science education that integrates technical training, case studies, ethical reflection and strategic thinking. It cultivates students' technical expertise alongside critical thinking, communication and leadership skills, enabling graduates to meet the complex analytical needs of diverse industries. The school is committed to nurturing leaders and innovators who will spearhead Hong Kong and the Greater Bay Area towards a data-driven future, and driving Hong Kong's development into a smart society with mature data literacy.

岭南大学数据科学学院推行全面的数据科学教育，融合技术培训、案例研究、伦理思考与战略思维，培养学生技术专长及批判性思维、沟通和领导能力，助力毕业生满足各行业复杂分析需求，成为引领香港及大湾区迈向数据驱动未来的领袖与创新者，推动香港发展为数据素养成熟的智慧社会。

Division of Artificial Intelligence

人工智能学部

The Division of Artificial Intelligence provides the technical foundation for data science research, with a specific focus on the field of artificial intelligence. It is responsible for developing and delivering courses related to machine learning, neural networks and cognitive computing, ensuring that students master the latest AI technologies and methodologies.

人工智能学部为数据科学研究提供技术基础，尤其侧重于人工智能领域。该学部负责开设和提供与机器学习、神经网络以及认知计算相关的课程，确保学生精通最新的人工智能技术和方法。

课程总监寄语 MESSAGE FROM THE PROGRAMME DIRECTOR

Welcome to the MSc in Data Science programme at Lingnan University! Rooted in cutting-edge academic research, our programme integrates core modules including data analysis, machine learning and artificial intelligence. Through a dual approach combining theoretical instruction and hands-on project practice, we help students build a systematic knowledge framework. At present, data science has become the core engine driving innovation and upgrading across all industries, and the demand for professionals in this field continues to surge in both Hong Kong and the global market.

Leveraging our network of partnerships with leading enterprises, the programme opens a green channel for internships and provides students with valuable industry practice opportunities. We are committed to the mission of nurturing professionals equipped with both solid technical capabilities and a local perspective, empowering you to stand out in the data era and inject strong impetus into the development of Hong Kong's digital economy.

欢迎各位报读岭南大学数据科学理学硕士课程！本课程立足学科前沿，整合数据分析、机器学习、人工智能等核心模块，通过理论授课与实战项目相结合的模式，构建系统化知识体系。当前，数据科学已成为驱动各行业创新升级的核心引擎，香港及全球市场对专业人才的需求持续攀升。

课程依托头部企业资源网络，为学子打通实习绿色通道，提供宝贵的行业实践机会。我们始终以培养兼具技术实力与本土视野的专业人才为使命，助力大家在数据时代脱颖而出，为香港的数字经济发展注入强劲动力。

沈家星教授

岭南大学数据科学学院 助理教授
数据科学理学硕士课程 课程总监

Professor SHEN Jiaxing
Assistant Professor
School of Data Science, Lingnan University
Programme Director,
Master of Science in Data Science

COURSE INTRODUCTION

课程介绍

PROGRAMME HIGHLIGHTS 课程特点

Cut across the core disciplines of AI and Data Science

跨越人工智能和数据科学的核心学科

It integrates multidisciplinary perspectives, enabling students to gain a comprehensive understanding of all critical aspects of data science as well as its real-world applications. It trains professionals to leverage data science tools for data analysis and to transform raw data into actionable insights.

整合了不同学科，让学生了解数据科学的所有重要方面以及它在现实世界中的应用。培训专业人员使用数据科学工具分析数据并将其转化为有效信息。

Consider more practical applications and frontier technologies

考虑更多实际应用和前沿技术

Integrate artificial intelligence, data science with various analytical applications in real-life scenarios, including blockchain, marketing, healthcare, geographic information systems, etc.

将人工智能、数据科学和不同的现实生活中的分析应用相结合，包括区块链、市场营销、医疗保健、地理信息系统等

Serve a wide range of audiences

服务广泛的受众

It is suitable for a wide range of professionals, decision-makers and policymakers who need to process and analyze big data. It is also an ideal choice for practitioners in various healthcare and public service sectors—those who understand the importance of data science and artificial intelligence in improving social quality and operational efficiency.

适合需要处理和分析大数据的广泛专业人士、决策者及政策制定者，也是不同医疗保健及公共事业从业员的理想选择——他们了解数据科学和人工智能对提高社会质量和运营效率的重要性。

Top-tier Enterprise Resources, Unlocking a Green Pathway to Internships

头部企业资源，打通实习绿色通道

Connecting with top-tier enterprise resources, we fully unlock a green pathway to internships and empower students to launch their professional careers

链接头部企业资源，全力打通实习绿色通道，助力学子职业启航。

PROGRAMME HIGHLIGHTS 课程结构

Required Courses

必修科目

Programming for Data Science

- 数据科学编程

Statistics for Data Science

- 数据科学统计

Database Management

- 数据库管理

Data Mining

- 数据挖掘

Data Science Project

- 数据科学项目

Foundation of Artificial Intelligence

- 人工智能基础

Machine Learning for Business

- 商业中的机器学习

re-entry Courses

预科科目

Applicants with no or limited background in computer science or statistics will be required to complete non-credit-bearing pre-entry course(s):

未曾修读过计算机科学或统计学科目，或对这些科目认识较少的申请者需于本课程开始之前完成相应预科科目：

Introduction to computing

- 计算概论

Statistics

- 统计学

Elective Courses

选修科目

Any 3 courses from the followings

选修以下任何 3 科

Introduction to Cyber Security

- 网络安全概论

Mobile Edge Computing

- 移动边缘计算

Cloud Computing

- 云计算

Business Decision Making with Software

- 业务决策及软件应用

Natural Language Processing

- 自然语言处理

Practical Application of Deep Learning

- 深度学习的实际应用

Computer Vision

- 计算机视觉

Big Data Analytics

- 大数据分析

Operations Management

- 运营管理

Blockchain

- 区块链

Data Visualization

- 数据可视化

Healthcare Analytics

- 医疗保健分析

Social Computing

- 社会计算

Geospatial Intelligence for Sustainable Development

- 可持续发展的地理空间智能

*The offering of elective courses is subject to sufficient demand and division availability.

*选修科目开设与否取决于学生需求及学部教师的教学安排

ADMISSION REQUIREMENTS

入学条件

GENERAL QUALIFICATIONS 一般申请资格

Applicants holding a Bachelor's degree in Engineering, Science or other equivalent discipline from a tertiary education institution recognised for this purpose by the university, or an equivalent qualification, or satisfactory evidence of academic and professional attainment, will be considered on a case-by-case basis.

申请人需持有由本大学认可的高等教育机构授予的工程学、理学或其他同等学科学士学位;或取得同等学历;或提供令人满意的学术和专业成就证据。

英语语言要求 ENGLISH LANGUAGE REQUIREMENTS

An applicant whose degree or, exceptionally, an alternative qualification deemed equivalent from a tertiary institution is not using English as the medium of instruction (MOI) for the programme should obtain:

- a minimum score of 79 (Internet-based test) in TOEFL (within 2 years), or
- a band score of 6.0 or above in IELTS (within 2 years), or
- a minimum score of 450 (within 5 years) or above in College English Test Band 6 (CET-6), with proof of competency in spoken English; or
- an equivalent score in a recognised test, or
- an equivalent qualification to prove his/her English language proficiency which will be considered on a case-by-case basis.

如申请人所取得之学位(或在特殊情况下由高等教育机构颁发的同等资历)并非以英语为授课语言, 则应取得:

- 网上托福考试最低79分(2年有效期);
- 或雅思(学术)6.0分或以上(2年有效期);
- 或大学英语六级考试(CET-6)成绩不低于450分(5年有效期), 并提供英语口语能力证明;
- 或被认可考试的同等成绩或取得同等资格, 以证明其英语语言能力, 这将根据具体情况予以考虑

OTHER INFORMATION 其他资料

MODE OF STUDY	MEDIUM OF INSTRUCTION		
修读方式	授课语言		
Full-time	全日制	English	英语
STUDY PERIOD	TUITION FEES		
修读年限	学费		
Normal: 1 year	一般年限: 1年	HK\$289,000	港币

SCHOLARSHIPS

奖学金

Scholarships might be considered for outstanding students on the basis of academic merit. All students admitted to the programme will automatically be the candidates for the scholarships, no application is required.

奖学金将授予成绩优异的申请者, 入读本课程的学生均具备资格成为奖学金备选人, 不需要额外申请。

OUTSTANDING PROFESSORS

卓越师资



秦泗钊教授
Prof. Qin Si Zhao
Joe
岭南大学校长
韦基球数据科学讲座教授
全球首2%顶尖科学家
工业工程与自动化全港第一



陈汉夫教授
Prof. CHAN Raymond Hon Fu
学术暨教务副校长
林文赞科学计算讲座教授
全球首2%顶尖科学家
数值与计算数学全港第一



姚新教授
Prof. YAO Xin
副校长(研究及创新)
唐天棨机器学习讲座教授
全球首2%顶尖科学家
人工智能与影像处理全港第一



邝得互教授
Prof. KWONG Sam Tak Wu
协理副校长(策略型研究)
利荣康计算智能学讲座教授
全球首2%顶尖科学家
加拿大工程院和香港工程院院士



宋永端教授
Prof. SONG Yongduan
数据科学学院院长
方润华工业数据科学讲座教授
中国工程院外籍院士
全球首2%顶尖科学家



谢浩然教授
Prof. XIE Haoran
数据科学学院副院长
教授兼人工智能学部负责人
全球首2%顶尖科学家



张滇教授
Prof. ZHANG Dian
数据科学学院副院长
副教授兼工业数据科学学部负责人



Prof. MOREL Jean-michel Henri Oliver
讲座教授
全球首2%顶尖科学家



赵瀚荣教授
Prof. CHIU Hon Wing, Billy
助理教授
PhD (Cambridge)



李宗禧教授
Prof. LI Zongxi
助理教授
PhD (CityU HK)



Prof. Gleb Papyshv
助理教授
PhD (HKUST)



沈家星教授
Prof. SHEN Jiaxing
数据科学理学硕士课程 课程总监
助理教授
PhD (PolyU HK)



王萌教授
Prof. WANG Meng
助理教授
PhD (CityU HK)



东承祖教授
Prof. DONG Chengzu
教学助理教授
PhD (Deakin)



李钧扬教授
Prof. LEE Kwan Yeung, Keste
教学助理教授
PhD (CUHK)



李楠教授
Prof. LI Nan
教学助理教授
PhD (CityU HK)



杨雨韵教授
Prof. YANG Yuyun
教学助理教授
PhD (Stanford)



俞丽莎教授
Prof. YU Lisha
教学助理教授
PhD (CityU HK)



陈红华教授
Prof. CHEN Honghua
研究助理教授
PhD (NUAA)



黄福香教授
Prof. HUANG Fuxiang
研究助理教授
PhD (CQU)



姚文芳教授
Prof. YAO Wenfang
研究助理教授
PhD (PolyU HK)

*该排名依据职位等级, 相同职位等级按姓氏首字母排序。

SHARING FROM GRADUATES

毕业生分享



Mr. CHEN Zehan
School of Data Science
Lingnan University
MSc DS Graduate in 2025
PhD Candidate
Zhejiang University

陈辉翰同学
岭南大学数据科学学院
2025届数据科学理学硕士课程毕业生
浙江大学博士研究生

My one-year study experience at Lingnan University has been incredibly rewarding. Our group members collaborated closely, held regular discussions, shared ideas, and solved problems together, fostering a strong academic atmosphere. I was also deeply touched by the dedication of the faculty members. In particular, Professor Jiacheng Shen and Professor Chengzu Dong provided patient guidance on experimental design, carefully reviewed my research progress, and even offered valuable advice on career planning. Their support not only accelerated my academic growth but also made me fully appreciate the power of teamwork.

在岭南的这一年学习经历让我受益匪浅。小组同学之间团结协作，定期开展讨论，分享思路，共同攻克难题，营造了浓厚的学术氛围。老师们的认真负责也让我深感温暖，尤其是沈家星教授和东承祖教授，他们耐心指导实验设计，细致审阅课题进度，甚至关心职业规划。这种支持让我在学术上迅速成长，同时感受到团队的力量。

Through my studies in the Data Science program, I was exposed to a wide range of data processing tools and analytical methods in coursework. I gained a deeper understanding of data value through practical experience, and developed rigorous logical thinking and innovative problem-solving abilities during project engagements. I am confident that these knowledge, skills, and spiritual assets will serve as both the foundation and driving force for my future career journey.

通过在数据科学专业的学习，我在课程中接触到各类数据处理工具和分析方法，在实践中更加深入的理解数据价值，在项目中培养严谨的逻辑思维和创新的解决问题能力。我相信这些知识、能力与精神财富，都将成为我未来前行路上的底气与助力。



Mr. TAO Jie
2023 Graduates of DAI
Data Analyst
China Mobile Hong Kong

2023届学部毕业生陶杰同学
中国移动香港数据分析师

I have gained a lot from my studies in the Division of Artificial Intelligence. My knowledge of Artificial intelligence and Business Analytics has laid the foundation for me to analyze user behavior and data detection in the telecommunications industry. The numerous group projects in the course helped me learn how to work and communicate efficiently in a team.

在人工智能学部学习中，我收获良多。人工智能和商业分析的知识为我在电讯行业里分析用户行为和数据检测打下基础。课程中有很多小组合作项目，这些项目让我学会了如何高效地进行团队合作和沟通。

During my one-year study in the Data Science programme, I have deeply realized that self-discipline and independent learning capabilities are the cornerstones that underpin the successful completion of our academic pursuits and personal growth. Every process of reviewing academic literature, polishing research reports, and engaging in idea exchanges has allowed me to continuously accumulate knowledge in my professional field, and also helped me better understand how to efficiently allocate limited time to achieve goals. Here, I would also like to express my sincere gratitude to all the faculty members of the School of Data Science for their dedicated guidance and selfless contributions. Their profound academic knowledge, rigorous scholarship, and insightful perspectives on cutting-edge research areas have broadened my horizons for academic exploration.

这一年在数据科学专业的学习，我深切体会到，自律与自主学习能力是支撑我们顺利完成学业、收获成长的核心基石。每一次查阅文献、打磨报告、碰撞思路的过程，都让我在专业领域不断沉淀，也更懂得如何高效利用有限时间实现目标。在此，我也要衷心感谢数据科学学院各位老师的悉心教导与无私付出。老师们渊博的学识、严谨的治学态度，以及对前沿领域的深刻洞察，为我打开了学术探索的广阔视野。



Mr. WU Jiancheng
2022 Graduates of DAI
Data Analyst, Meituan

2022届学部毕业生吴健成同学
美团数据分析师

The diverse range of courses offered in the Division's curriculum has expanded my knowledge in the field of data analysis. Additionally, the unique project experiences provided have enhanced my overall abilities and self-awareness. This wonderful journey has solidified my determination to pursue a career dedicated to the field of data analysis. I firmly believe that the knowledge and experiences gained from these courses will assist me in overcoming future challenges in the next chapter of my life.

人工智能学部提供了多元的课程增加了我对数据分析领域的知识，也提供了独特的项目经验，让我提升了综合能力与自我认知。这段美好的经历让我下定决心在数据分析领域深耕。我相信在我人生的下一个旅程中，从课程中所学到的知识与经验能够帮助我克服未来的种种挑战！



Ms. GUAN Yuqi
School of Data Science
Lingnan University
MScDS Graduate in 2025
R&D Specialist, Sinopec
管昱祺
岭南大学数据科学学院
2025届数据科学理学硕士课程毕业生
中石化科技研发岗



Mr. YAO Haoyang
School of Data Science, Lingnan University
MScDS Graduate in 2025
Neo land Entertainment, Hong Kong
Backend Developer
姚浩洋
岭南大学数据科学学院
2025届数据科学理学硕士课程毕业生
香港新大陆游戏公司 后端开发

PROFESSIONAL SHARING BY INDUSTRY ELITES: OPENING A GREEN CHANNEL FOR INTERNSHIPS AT TOP UNIVERSITIES AND LEADING ENTERPRISES 行业大咖专业分享:打通头部高校和名企实习绿色通道



Hosted by the MSc in Data Science Programme Office, the thematic workshop "AI Innovation and Entrepreneurship: Bridging Global Research and Local Industries" takes "connecting global academic research with local industrial practices" as its core mission, bringing together a stellar lineup of top-tier guests from both the global and local academic and industrial sectors. This event has curated a comprehensive knowledge feast for students, covering cutting-edge AI theories, industry implementation pathways, and the essence of entrepreneurial practices. Among the participants, world-renowned universities including the University of Toronto, University of Auckland and Hong Kong Polytechnic University, in collaboration with leading industry players such as SF Technology, Libpet and AWS, are simultaneously offering a number of high-quality research and internship positions, thus building a solid platform for students to embark on a promising professional future.

数据科学理学硕士课程办公室主办的「人工智能创新与创业:链接全球研究与本地产业」专题工作坊，以“联结全球学术研究与本地产业实践”为核心使命，汇聚全球及本地学界、业界顶尖嘉宾阵容。活动为学子们打造了一场覆盖AI前理论、产业落地路径与创业实践精髓的全方位知识盛宴。其中，多伦多大学、奥克兰大学、香港理工大学等世界名校，携手顺丰科技、Libpet、AWS等行业头部企业，同步释放多个优质科研与实习岗位，为学生搭建起通往广阔职业未来的坚实平台。

TOP-TIER ENTERPRISE IMMERSION PROGRAMME: AN IN-DEPTH EXPERIENCE OF TECHNOLOGY IMPLEMENTATION SCENARIOS 头部企业研学:技术落地场景深度体验

HKSTP InnoTech Experience Centre: Immersive Exploration of Cutting-Edge Technologies 香港科学技术园(HKSTP)创科体验馆:前沿科技的沉浸式探索

Students visited the HKSTP InnoTech Experience Centre, where they engaged in immersive exposure to the world's latest technological innovation outcomes, gained insights into the practical pathways through which technology empowers a better life, and inspired the technical transformation and innovative thinking of young creative talents. They learned how HKSTP connects global enterprises, research institutions and entrepreneurs to build a support system spanning from technological R&D to market implementation. This experience helped students clarify the positioning of AI + industry analysis talents in the industrial ecosystem, providing guidance for their future career planning (e.g., joining tech innovation enterprises or participating in industry-university-research projects).

学生走进香港科技园创科体验馆，沉浸式接触全球最新创新科技成果，感受科技赋能美好生活的实践路径，激发年轻创意人才的技术转化与创新思维。学生了解香港科技园如何链接全球企业、科研机构与创业者，构建从技术研发到市场落地的支持体系，明确AI+业分析人才在产业生态中的定位，为未来职业规划(如加入创科企业、参与产学研项目)提供方向参考。



SenseTime: Cutting-Edge Exploration of AI Technologies 商汤科技:AI技术的前沿探索

At this world-leading AI software company, students conducted in-depth discussions on cutting-edge industry technologies, which ignited their passion for technological exploration. Through first-hand explanations delivered by the company's technical team, they deepened their understanding of the real-world application scenarios of AI technologies, and linked the knowledge of deep learning, computer vision and other disciplines learned in classrooms to the demands of industry implementation.

在全球领先AI软件公司，深度对话行业前沿技术，激发技术探索热情。通过企业技术团队的一线讲解，深化对AI技术实际应用场景的理解，链接课堂所学的深度学习、计算机视觉等知识与行业落地需求。

DJI Innovation: Closing the Theory-Practice Loop for Intelligent Technologies 大疆创新:智能科技的"理论-实践"闭环

Through the comparison and dynamic demonstration of drone products across generations (from the Inspire series to the Mavic series), students gained an intuitive understanding of the technological leap from single aerial photography to full-scenario intelligent solutions. They delved into real-world cases of drone applications in traffic management (real-time traffic monitoring), emergency rescue (locating disaster-stricken areas), high-altitude operations (replacing high-risk inspections) and logistics transportation (low-altitude cargo delivery). This experience broke the misconception of viewing technology merely as a dazzling tool, and helped students establish a mindset that technology drives social progress. Students also participated in the RoboMaster Robotics Competition experience session, where they formed teams to operate robots and complete tactical tasks, personally experiencing the value of translating classroom knowledge into practical operations.

通过历代无人机(悟到御系列)的对比与动态演示，直观理解从单一航拍到全场景智能解决方案的技术跨越。深入了解无人机在交通管理(实时监控流量)、应急救援(定位受灾区域)、高空作业(替代高危巡检)、物流运输(低空货运)等场景的案例,打破技术炫酷工具认知，建立技术推动社会进步的思维。参与RoboMaster机甲大赛对抗赛体验，组队操控机器人完成战术任务，亲身体会课堂知识转化为实际操作的价值。

BREAKTHROUGHS IN INTERNATIONAL COMPETITIONS: TANGIBLE PROOF OF TECHNOLOGICAL INNOVATION CAPABILITIES 国际赛事突破:技术创新能力的实力印证

zkWASM Hackathon Thailand: Securing the Global Runner-Up Title 泰国 zkWASM 黑客松:斩获全球亚军

Led by Professor Dong Chengzu, a team of 8 taught postgraduate students participated in the competition in Thailand. They stood out among top global teams (including those from the National University of Singapore, Hong Kong University of Science and Technology (Guangzhou) and Xiaomi (Singapore), clinching the runner-up title and a prize of US\$10,000.

Starting from scratch, the team learned zkWASM technology (a virtual machine supporting WebAssembly), independently built a simple on-chain zkWASM game, mastered the technical architecture, SDK and rollout framework, and consolidated the foundation for innovation. Through practical competition experience, they integrated AI algorithms and data processing technologies learned in the programme, proving the technological innovation capabilities of MScDS students and embodying the programme's education loop of "Theory - Innovation - Implementation".

东承祖教授带领 8 名授课型研究生赴泰国参赛，从全球 顶尖团队(含新加坡国立大学、香港科技大学(广州)、小米新加坡等)中脱颖而出，获亚军及 10,000 美元奖金。

从零学习 zkWASM 技术(支持 Web Assembly 的虚拟机)，独立搭建简单的链上 zkWASM 游戏，掌握技术架构、SDK 迷你 rollout 框架，夯实创新基础。通过赛事实战，将课程所学的 AI 算法、数据分析能力与新兴技术结合。证明 MScDS 学生在技术创新中的实力，体现课程“理论 - 创新 - 落地”的培养闭环。

