

Data Science and Analytics Thrust

数据科学与分析学域



学域使命

Mission

数据科学与分析学域通过统一统计、机器学习、优化及其相关技术来推进数据科学和分析领域的发展。同时,本学域致力于扩展数据科学和分析的应用以解决现实世界中的重大科研问题以造福社会。

Data Science and Analytics Thrust advances data science and analytics by unifying statistics, machine learning, optimization, and their related techniques. It also expands the applications of data science and analytics to solve real world problems and to benefit society.



跨学科研究领域

Cross-Disciplinary Research Areas

- Data-driven AI & Machine Learning 数据驱动的人工智能和机器学习
- Statistical Learning and Modeling 统计学习和建模
- Industrial and Business Analytics 工业和商业分析
- Sector-Specific Data Analytics 特定行业的数据分析
- Data Visualization and Infographics 数据可视化和信息图表
- High-Performance Systems for Data Analytics 高性能数据分析系统
- Security and Privacy 安全与隐私
- AI for Science 科学智能



专业设置

Program Structure

Undergraduate 本科阶段

- 数据科学与大数据技术理学学士
BSc in Data Science and Big Data Technology

Postgraduate 研究生阶段

- 大数据智能理学硕士
MSc in Data-Centric Artificial Intelligence Technology
- 数据科学与分析哲学硕士
MPhil in Data Science and Analytics
- 数据科学与分析哲学博士
PhD in Data Science and Analytics



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师资信息

Faculty

数据科学与分析学域已形成了一支年轻且高水平的学术队伍,包括超过30名正/副高级全职教员。其中,国家级高层次人才9人,广东省级人才10人,广州市级人才9人,IEEE会士4人,ACM会士1人,2025年斯坦福大学全球前2%顶尖科学家榜单11人。近年来,学域师生获得**100多项国内外授权发明专利**,近一年发表国际顶级期刊和会议论文330余篇。

DSA Thrust has over 30 full-time prestigious faculty members with 28 awardees from national, provincial and municipal Talent Programs, 4 IEEE fellows, 1 ACM fellow and 11 World's Top 2% Scientists (2025).



扫码查看最新教职队伍信息

Scan QR code for latest information on DSA Faculty.



科研成就

Achievements

● 论文发表 Publications

自2022年建校以来,本学域师生发表论文数量逐年增高,于2025年达到330余篇,涵括人工智能、机器学习、数据库、数据挖掘、计算机视觉等多个领域的顶尖国际会议。

Since 2022, the number of papers published by DSA has seen significant annual growth. The annual total reached 330 in 2025. These papers encompass a wide range of top conferences in various fields, including AI, machine learning, databases, data mining, computer vision, and so on.

● 论文获奖 Awards

PerCom 2026

PerCom 2026

ICDCS 2025

EuroSys 2025

INFOCOM 2025

ACL 2024

SIGMOD 2024

NeurIPS 2024

SIGKDD 2023

SIGCOMM 2022

DASFAA2022

VLDB 2022

Test of Time Award 时间检验论文奖

Mark Weiser Best Paper Award 最佳论文奖

Distinguished Paper Award 杰出论文奖

Best Paper Award 最佳论文奖

Test of Time Award 时间检验论文奖

Outstanding Paper Award 杰出论文奖

Research Highlight Award 研究亮点奖

Spotlight Paper 亮点论文

Best Paper Award 最佳论文奖

Best Paper Award 最佳论文奖

Outstanding Contribution Award 杰出贡献奖

Best Paper Award 最佳论文奖



学术服务

Academic Service

DSA教授积极支持学术社区发展,组织各类学术活动并担任数据科学及相关领域的各水平学术活动及期刊的会议主席、领域主席、主编等职务。

development of the academic community by organizing and serving in various capacities for academic activities and journals in the field of data science and related areas. They hold prestigious positions such as conference chairs, area chairs, and editors-in-chief, etc., contributing their expertise to ensure the success of conferences and the advancement of knowledge in the discipline.



International Conference on Very Large Databases (VLDB)



International Symposium on Quality of Service (IWQoS)



Forum on High Performance Machine Learning System



China Collegiate Programming Contest



科研及产业合作

Research and Industry Collaboration

1

广东省重点实验室

Guangdong Provincial Key Lab

2

广州市重点实验室

Guangzhou Municipal Key Labs

8

校企联合实验室/创新中心

Industry-University Joint Labs

配备**9,000**余万校企合作横向经费及**4,000**余万纵向经费：与**中国移动, 中国联通, 南方电网**等基础设施龙头企业携手，联合**腾讯, 支付宝, 华为, 阿里巴巴, 字节跳动, 快手**等科技领军企业开展技术攻关，**协同之江实验室, 鹏城实验室**等国家级科研平台进行联合研发，并多次获得**CCF-华为胡杨林基金, CCF-百度松果基金, CCF-滴滴盖亚学者, CCF-腾讯犀牛鸟基金**等权威科研资助。

With over 90 million collaborative fundings (from industry) and over 40 million government project fundings. DSA has established strategic partnerships with leading infrastructure companies such as China Mobile, China Unicom, and China Southern Power Grid. Additionally, we collaborate with tech giants like Tencent, Alipay, Huawei, and Alibaba to tackle key technological challenges. We also work alongside national research platforms like the Zhejiang Laboratory and Pengcheng Laboratory for joint R&D efforts, receiving prestigious research funding from sources such as the CCF-Huawei Poplar Fund and the CCF-Baidu Open Fund, CCF-DiDi Gaia Scholar, and CCF-Tencent Rhino-Bird Fund.





本科阶段 - 数据科学与大数据技术理学学士

Undergraduate Program - BSc in Data Science and Big Data Technology

学习周期

Duration

全日制 4年

Full-time 4 years

学费

Tuition Fees

人民币5-10万元/年

CNY 50,000-100,000 per year

● 培养目标 Educational Objectives

数据科学与大数据技术是一门以计算机科学、统计学、数学为支撑学科，涉及人工智能等领域的交叉融合学科。本专业旨在培养新型数据科学复合型人才。学生将兼备扎实的学科理论基础、良好的科学素养和社会责任感，能够以系统的数据思维解决实际问题中复杂问题，并应对现实世界中数据科学与大数据的挑战。

Data Science and Big Data Technology is an interdisciplinary field built upon computer science, statistics, and mathematics, with strong connections to artificial intelligence and related domains. This program aims to cultivate interdisciplinary talents in data science. Students will develop a strong theoretical foundation, a solid scientific literacy, and a sense of social responsibility. They will be equipped with systematic data-driven thinking to solve complex real-world problems and address the challenges of data science and big data, while effectively applying their knowledge to interpret and communicate results for informed decision-making.

● 培养特色 Program Features

01

大类培养

Broad-Based Education

02

贯通式培养

Integrated Academic Pathways

03

书院导师制

Collegiate System with Faculty Mentorship

04

全英文教学

English-Medium Instruction

● 专业特色课程 Specialized Courses

机器学习 Machine Learning

深度学习 Deep Learning

算法设计与分析 Design and Analysis of Algorithms

数据科学项目 Data Science Project

数据库管理系统 Database Management Systems

云计算和大数据系统 Cloud Computing and Big Data Systems

机器学习系统 Machine Learning Systems

数据科学理论 Theories in Data Science

计算理论 Theories in Computing

● 课外成长 Extra-curriculum Development

海外交换

Global Exchange

首届学生已赴加州大学伯克利分校、加州大学洛杉矶分校、亚琛工业大学、大阪大学、韩国科学技术院、香港科技大学及新加坡国立大学交换学习

First cohort on exchange at UC Berkeley; University of California, Los Angeles; RWTH Aachen University; Osaka University; Korea Advanced Institute of Science and Technology (KAIST); The Hong Kong University of Science and Technology (HKUST); and National University of Singapore (NUS).

本科生科研

Undergraduate Research Program

香港科技大学(广州)“探索者”本科生科研计划为学生提供跨学科的自主科研平台，在导师指导下开展探索式研究。项目通过实践导向与个性化支持，帮助学生激发创新潜能，提升科研能力与独立思考能力。

The HKUST(GZ) Explorers Undergraduate Research Program supports self-directed, curiosity-driven undergraduate research with close faculty mentorship and hands-on experience, fostering innovation and independent thinking.

学术产出

Academic Outputs

部分本科生已以共同一作/二作身份在 ICLR 等顶级会议发表成果，另有多位学生参与 ICML、EMNLP、KDD 等顶级会议论文发表。

Some undergraduate students have achieved co-first or co-second author publications in top-tier conferences such as ICLR, while a few students contribute to publications in leading venues including ICML, EMNLP, and KDD.

● 录取政策及申请条件 Admission Policies & Application Requirements

详情请访问香港科技大学(广州)本科招生官网：<https://ugadmissions.hkust-gz.edu.cn/zh-CN/>

For details, please visit the HKUST(GZ) Undergraduate Admissions Office website: <https://ugadmissions.hkust-gz.edu.cn/en/>



本科招生公众号

Undergraduate Admissions WeChat Official Account



大数据智能理学硕士

MSc in Data-Centric Artificial Intelligence Technology

学习周期
Duration

全日制2年
Full-time 2 years

非全日制3年
Part-time 3 years

专业特色
Program Setting

1年课程学习及研究项目+1年公司实习
1 year of courses and projects + 1 year of internship

学费及助学金
Fees and Scholarships

总学费: 人民币398,000元
Tuition Fee: CNY 398,000 per program

优秀学生奖学金: 在学期间学业成绩优异的学生将被授予人民币10,000元“优秀学生奖学金”
Outstanding Student Scholarship: MSc DCAI students with outstanding academic performance during their studies will be awarded "Outstanding Student Scholarship" of RMB 10,000

● 申请条件 Application Requirements

01 学位要求 Degree Requirements

申请者需在入学前从受认可的院校获得本科学位且成绩优异, 或有至少1年全日制/2年非全日制的研究生学习经历。

Obtained a bachelor's degree with a proven record of outstanding performance from a recognized institution; or presented evidence of satisfactory work at the postgraduate level on a full-time basis for at least one year, or on a part-time basis for at least two years.

02 语言要求 English Language Requirements

申请人必须满足以下至少一项英语要求

Applicants must fulfill English Language requirements with one of the following proficiency attainments:

- 托福TOEFL-iBT (单次single attempt): 80 (Before 2026/1/27前); 4.5 (After 2026/1/27后)
- 托福TOEFL-pBT (单次(single attempt): 550
- 托福TOEFL Revised paper-delivered test: 60 (总分total scores for Reading, Listening and Writing sections)
- 雅思IELTS (Academic Module): Overall score: 6.5 and all sub-score: 5.5

具有以下资格的候选人将被优先考虑

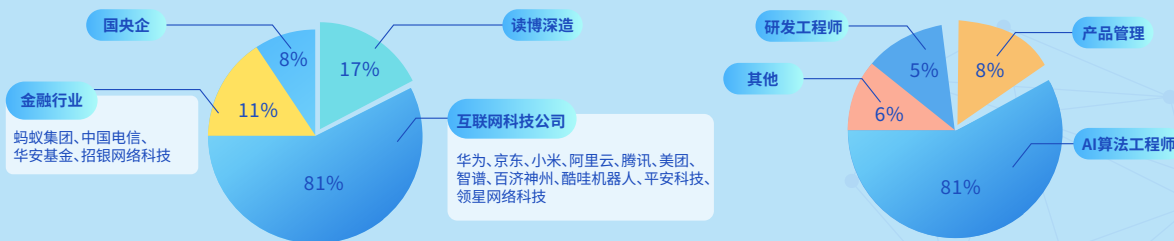
Priority will be given to candidates who:

- 取得数据科学或人工智能方面的荣誉学位(良好及以上)
Obtained an honors degree in Data Science or AI with good performance.
- 相关学科的荣誉学位(良好及以上), 并在IT行业有2年的工作经验;
Obtained an honors degree in a related field with good performance and 2 years of working experience in the IT industry.
- 具备数据分析行业背景经验。
Possess relevant background experience in the data analysis industry.

本科在读或尚未获得英语成绩的申请者如通过审核, 将获得有条件录取。

Applicants who are currently enrolled in an undergraduate program or have not yet provided their English language proficiency scores may receive a conditional offer.

● 毕业去向(首届) Graduate Placement (1st Cohort)



咨询邮箱: mscdcai@hkust-gz.edu.cn
Enquiry: mscdcai@hkust-gz.edu.cn

微信公众号: 港科广 | 大数据智能理学硕士项目
WeChat: MSc_DCAI_HKUSTGZ





数据科学与分析哲学博士

PhD in Data Science and Analytics

学习周期
Duration

全日制4年
Full-time 4 years

非全日制6年
Part-time 6 years

专业特色
Program Setting

跨学科双导师制 Interdisciplinary dual-supervisors mechanism
定制化课程设计 Customized curriculum plans
不设限科研探索 No-limit on students' research exploration
丰厚的科研资源 Strong research resources and support

学费及助学金
Fees and Scholarships

全日制博士助学金:
18万元/年(无须额外申请)
 TStudentship for full-time PhD students:
 CNY 180,000 per year without additional application

学费: 人民币4万元/年(全日制博士奖学金获得者)
人民币15万元/年(非全日制学生及自费学生)
 Tuition Fee: CNY 40,000 per year for full-time PhD studentship awardees
 CNY 150,000 per year for part-time students and self-financed students

● 申请条件 Application Requirements

01 学位要求 Degree Requirements

申请者需在入学前从受认可的院校获得本科学位且成绩优异, 或有至少1年全日制/2年非全日制的研究生学习经历。

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本科在读或尚未获得英语成绩的申请者如通过审核, 将获得有条件录取 (conditional offer)。

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● 课外发展 Extra-Curriculum Development

1. 加入校企合作项目/实习, 利用大厂算力等资源将理论应用到商业场景
Leveraging resources in Tech Giants during industrial collaborative projects/internships to transform theory into practice.
2. 赴世界一流高校交换, 可申请额外海外生活补助
Exchange to top tier universities or research institutions with extra overseas subsidies.
3. 获学校及学域专项差旅经费, 于国际会议和研讨会汇报科研成果
University and Thrust-level Research Travel Grant for attending international conferences and workshops.

● 2025毕业及实习去向(含先导计划学生) Graduate and Internship Placement (Pilot Scheme incl.)

学术界
Academia

清华大学助理教授1人, 新加坡国立大学、香港中文大学、加拿大阿尔伯塔大学博士生研究员3人。
 One Assistant Professor at Tsinghua University; 3 Postdoc at National University of Singapore, Chinese University of Hong Kong, University of Alberta.

工业界
Industry

15人选择就业, 起始年薪中位数达到80-100万元人民币, 就职于华为、腾讯、字节跳动、阿里巴巴、鹏城实验室、中国农业银行等科技公司、国家实验室及央企。
 15 graduates pursue employment, with a median starting salary ranging from 800k to 1,000k RMB. They are employed at renowned technology companies, national laboratories, and state-owned enterprises, including Huawei, Tencent, ByteDance, Alibaba, Peng Cheng Laboratory, and the Agricultural Bank of China.

咨询邮箱: dsarpg@hkust-gz.edu.cn

Enquiry: dsarpg@hkust-gz.edu.cn



校园生活

Life at DSA Thrust



学术沙龙
Academic Salon



海报展示
Poster Pop-Up



参会分享
Conference Table Talks



卓越奖年度评选
DSA Excellence Awards



企业参访
Industry Visit



高校参访
Academic Tour



学生团建
Student Retreat



校友活动
Alumni Sharing

联系我们

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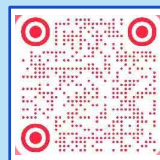
Website



官网
Website



微信公众号
WeChat



小红书
Xiaohongshu



知乎
Zhihu