

MSc in Finance

FinTech and Financial Analytics

2020-21 Intake



Programme Overview

A practical program to prepare students for the fast growing Fintech and Financial Analytics industry. Through lectures, workshops, round-table discussions, case studies and expert sharing from industry practitioners, this inter-disciplinary programme taught by both Finance and Management Information Systems faculty, will widen and deepen your understanding of the rapidly changing landscape and the impact of new technologies on traditional finance models.

You will be empowered with knowledge in **Finance, FinTech, Financial Analytics, Machine Learning, Financial Computing, Textual Analysis, Cybersecurity, Privacy, Blockchain, Cryptocurrency, Algorithmic Trading, Financial Fraud, and Regulatory Compliance.** Get well-prepared for the fast-growing demand of today's data-driven economy, and develop new insights and perspectives towards emerging technologies and harness them to take the Financial Industry to the next level.

Who Should Enrol

The Department of Finance and Decision Sciences is committed to nurture more FinTech talent in Hong Kong

1. **LOOKING FOR CHANGE:** Candidates who seek to adapt their traditional financial business to the new-age digital economy and prepare for the challenges coming out of the new data-driven economy.
2. **DEEPENING KNOWLEDGE:** Candidates who seek to deepen their knowledge on the disruptive innovations and transformative forces in the finance ecosystem.
3. **ENTERING THE NEW ERA:** Candidates who seek to enter the FinTech or financial analytics industry.
4. **SEEKING PROFESSIONAL QUALIFICATION:** Candidates who seek to obtain globally recognized professional qualification in FinTech industry.

Industry Recognition

"In view of the rapid development in the industry, the FinTech program is both timely and relevant. The hands-on training on analytics and machine learning will enable students with an edge in the market for real-life challenges."

Adjunct Professor Paul Sin, Leader of FinTech Practice & Asia Pacific Blockchain Lab, Deloitte

"Tencent has been committed to developing innovative and advanced financial technology to make people's daily life easier, simpler and safer. We are actively looking for talents who could provide value adding insights to our many financial innovations such as digital payment, electronic wallet, eKYC and smart city infrastructure. We await to collaborate with graduates of MSc in Finance to contribute to the development and success of financial technology in Hong Kong hand in hand."

James Li, Senior Director of Hong Kong, Macao and Cross-border Financial Affairs, Tencent

Why You Should Enrol

1. **INTERNSHIPS:** Participate in internships during your studies; we will assist with providing opportunities.
2. **INTER-DISCIPLINARY:** Learn about leading edge topics by the Finance and Management Information Systems faculty, and industry experts from finance, business, and computer science fields.
3. **INDUSTRY EXPERTS:** Advisory committee will consist of best-of-field experts to oversee course content and also share valuable first-hand experience.
4. **PROFESSIONAL RECOGNITION:** Graduates of the Programme have satisfied qualification requirements of IFTA (Institute of Financial Technologist of Asia) and could be admitted to the CFT (Certified Financial Technologist) programme for the **exemption of Level 1 and Level 2 (Module 1-4).**

* All exemptions are subject to the approval of IFTA. Updated Information will be provided on the website of IFTA.



Fintech career sharing



Programme Orientation

"Data mining and analytics are important elements in financial technology. This programme does not only teach the theory of data mining and analytics but also invites different industry experts to share their practical experience with students, which will be very helpful for students to join the FinTech industry in the future."

Shangfa Yu, Vice President, Ant Financial

"Cybersecurity and Data Privacy are increasingly becoming board level responsibilities, and the emergence of FinTech and Cryptocurrency allows attackers new methods to gain access to valuable assets. With the GDPR in force since May 2018, FinTech companies may have both security and regulatory requirements they are not fully aware of. Through a mix of academic and industry leaders, the Masters programme recognizes the trends and importance of cybersecurity and privacy and will enable students to gain a deeper awareness of these issues and practical ways to mitigate these risks."

Adj. Professor Jason Lau, Chief Information Security Officer, Crypto.com; HK Regional Lead, International Association of Privacy Professionals

Curriculum Structure*

Core Courses:

1. Blockchain and Cryptocurrency
2. Corporate Finance
3. Cybersecurity, Privacy and RegTech for Finance
4. Financial Computing with Python and R
5. Financial Derivatives and Risk Management
6. Financial Technology (FinTech)
7. Investment Management
8. Machine Learning for Financial Data

Elective Courses (Any 2 of the below):

1. Applied Financial Econometrics
2. Algorithmic and High-Frequency Trading
3. Compliance in Finance
4. International Financial Management
5. Textual Analysis in Finance and Accounting
6. Independent Studies Integrative Project

Official IAPP course material (privacy aspects) of International Association of Privacy Professionals (IAPP) will be adopted in the course "Cybersecurity, Privacy and RegTech for Finance".

Students will receive complimentary 1 Year Membership of IAPP, which will allow full access to their online resources and member benefits.



* Subject to change without prior notice

Scholarships

Scholarships and awards are available to reward outstanding entrants and students. Details are as follows:

Scholarship / Award	Amount
International Postgraduate Scholarship	Full tuition coverage + HK\$100,000 living subsidies
Diversity Contribution Scholarship	From half tuition to full tuition coverage
Entrance Award	HK\$50,000
Excellent Academic Performance Award	HK\$10,000
Young Talent Scholarship	HK\$20,000



Seninar on GDPR



MOU with iFTA

Industry Recognition

"Fintech is driving business process innovation to enrich the lives of the general community. Its impact on financial transactions will continue to expand as new technology is developed and new thinking is employed. We are only in the early stage of realizing the potential of this Fintech era."

Adj Professor Samson Tai, Chief Technology Officer, IBM Hong Kong

"The design of the programme fits with the needs of the data centric economy. It equips students with the latest technological knowledge such as machine learning and textual analytics, which are important to many aspects of FinTech innovation design and development. I believe that graduates from the programme could bring valuable insights and additions to the FinTech industry."

Karl Wong, Head of Product, Alipay Hong Kong

"With the rapid development of financial technology, requirements for financial services are also upgrading. It's important for the banking industry to actively cater to the needs of users and reshape the banking system with new insights and perspectives. The industry will have

growing demands for talents who maintain the knowledge on artificial intelligence and big data analyses, so as to understand the user experience, discover and move with the changing customer demands in the data-centric economy."

XinFa Cai, Special Assistant to the Bank President and Head of Retail Banking, Ping An Bank

"The urge for fintech talents is prominent and thrived by the Finance industry or inevitably becoming so-called Fintech Industry. HKBU as one of the pioneers in providing Fintech Master Education has captured the demand and needs of Greater Bay Area talents."

Paul Pong, Chairman, Institute of Financial Technologists of Asia

"The MSc in Finance (FinTech and Financial Analytics) is an ideal mix of industry focus and academic learning. In today's fast changing world of technology and increasing crossover between financial service & technology, this course will provide a solid foundation for the students to learn & understand the overlays between finance and technology and come out well prepared for their future careers."

Syed Musheer Ahmed, General Manager, FinTech Association of Hong Kong

PROGRAMME MANAGEMENT TEAM



Prof. Aris Stouraitis

PhD Finance, Imperial College London
Head, Department of Finance & Decision Sciences
Director, Centre for Corporate Governance & Financial Policy

Aris's research has been published in the Journal of Financial Economics, the Journal of Financial & Quantitative Analysis, the Review of Finance, and other international journals. His research or commentary has also featured in articles on Bloomberg, The Economist magazine, the leading German financial newspaper Handelsblatt, and other media outlets in Hong Kong, Europe, North and South America.



Ms. Connie Leung

MBA, Columbia Business School
Acting Programme Director, MSc in Finance (Fintech & Financial Analytics)

Before joining academia, Connie spent 20 years in the banking sector in New York and Hong Kong, where she worked with leading international financial institutions such as Nomura International, Societe Generale, Deutsche Bank, Credit Suisse First Boston, and Swiss Bank Corporation.

TEACHING TEAM

The teaching team of this programme includes academic faculty from both Finance and Management Information Systems disciplines, and industry practitioners with variety of backgrounds. Some courses are co-delivered by our faculty and industry practitioners. It is envisaged that parts of these courses will be offered by visiting faculty from overseas and/or will consist of virtual classes in collaboration with overseas faculty from prestigious institutions.



Information Systems Faculty



Finance Faculty

Industry Practitioners of year 2019-2020 Academic



Adjunct Professor Samson Tai

IBM Distinguished Engineer & Chief Technology Officer
IBM China/Hong Kong Limited

Samson has held a number of senior technical and business leadership positions in IBM. Samson is an expert in Big Data and Analytics and has spearheaded many innovative solutions by applying emerging technologies across different aspects of the business for clients in Hong Kong.



Adjunct Professor Jason Lau

CISSP, FIP, CIPP/E, CIPM, CGEIT, CRISC, CISA, CISM, CEH, CNDA
Chief Information Security Officer, Crypto.com
Regional Leader, International Association of Privacy Professionals

Jason is a multiple award winning cybersecurity professional, including the "Financial Technologist of the Year (Data Privacy)". Currently CISO at Crypto.com and former Regional Cyber Security Advisor at Microsoft, with over 18 years of experience in consulting.



Adjunct Professor Paul Sin

Leader of FinTech Practice & Asia Pacific Blockchain Lab
Deloitte

Dr. Paul Sin has over 20 years of IT management and consulting experience focusing in financial services sector, currently leading the FinTech practice and Asia Pacific Blockchain Lab in Deloitte.



Visiting Lecturer Dr. Dorothy Chau

Director of Hong Kong, Macao and Cross-border Financial Affairs
Tencent

Dr. Chau is currently the Director of Hong Kong, Macao, and Cross-border Financial Affairs at Tencent. Before joining Tencent, she was the Senior Lecturer and Programme Director at the Hong Kong Baptist University.



Visiting Lecturer Martin Wong

Executive Director and Head of Exchange Traded Solutions Sales, Asia-Pacific
BNP Paribas

Martin joined BNP Paribas in 2015 and is currently an Executive Director and Head of Exchange Traded Solutions Sales, Asia-Pacific. He was a Director and Head of warrants at Citigroup Global Markets Asia Limited and an Executive Director of Rabobank International within the Equity Derivatives department.

Academic Advisory Committee

The academic advisors review the programme curriculum and design and bring to us the world-class academic standard and expertise.

- Prof. Arturo Bris**
Professor of Finance, International Institute for Management Development (IMD)
Director, IMD World Competitiveness Center
Director, Digital Finance Programme at IMD
Co-author of 'Blockchange! How to survive the crypto economy' (IMD 2018)
- Prof. Raghavendra Rau**
Sir Evelyn de Rothschild Professor of Finance
Cambridge Judge Business School, University of Cambridge
Director, Cambridge Centre for Alternative Finance (CCAF)
- Prof. Viswanath Venkatesh**
Professor, Walton College of Business, University of Arkansas
George & Boyce Billingsley Endowed Chair in Information Systems
Outstanding All-Around Faculty Award for 2018-19,
Walton College of Business, University of Arkansas

- Karl Wong**
Head of Product
Alipay Hong Kong
- Paul Pong**
Chairman and Founder
Institute of Financial Technologists of Asia
- Musheer Ahmed**
General Manager
Fintech Association of Hong Kong
- XinFa Cai**
Special Assistant to the Bank President & Head of Retail Banking
Ping An Bank

Featured Speakers

Knowledge · Passion · Growth

- Aaron Cai**
General Manager, Tencent Blockchain
- Allen Ting**
Senior Legal Counsel, Huawei
- Bernard Tan**
Chief Counsel – Cybersecurity, SAP
- Emil Chan**
Chairman, Association of Cloud and Mobile Computing Professionals
- Jacqueline Chan**
Chief Financial Officer, DBS Bank
- Laura Cao**
Vice President and Chief Analytics Officer, Manulife Financial Asia Limited
- Marcus Yuen**
Head of Marketing and Operation, DB Power Online Limited
- Michael Yung**
Head of Digital Product and Technology, Asia Miles
- Padraig Walsh**
Partner, Tanner De Witt
- Philippe Lopez**
ex - Executive Manager, Global Cyber Security Solutions, Commonwealth Bank
- Raymond Chan**
Managing Director, 9F International Holdings
- Rogers Chan**
Managing Partner, Impact Invest
- Sammy Kam**
Technical Director, Octopus Cards Limited
- Scott Carlson**
Head of Blockchain Security, Kudelsky Security
- Terry Wong**
Co-founder and Senior Advisor, Zegal
- Tim Leung**
Senior Product Director of HK & Cross Border, Tencent Financial Technology

Industry Advisory Committee

The industry advisors help to evaluate and influence programme curriculum design, in order to enhance and ensure all aspects are industry relevant and ready.

- Dr. Dorothy Chau**
Director of Hong Kong, Macao & Cross-border Financial Affairs
Tencent
- Dr. Ana Cukic**
Chief Executive Officer
Armstrong Investment Managers LLP, London, U.K.
- Adjunct Professor Samson Tai**
IBM Distinguished Engineer & Chief Technology Officer
IBM China/Hong Kong Limited
- Adjunct Professor Jason Lau**
CISSP, FIP, CIPP/E, CIPM, CGEIT, CRISC, CISA, CISM, CEH, CNDA
Chief Information Security Officer, Crypto.com
Regional Leader, International Association of Privacy Professionals
- Andreas Neuber**
Member of the Board of Directors
UBS China Limited
ex-Group Regional Chief Operating Officer, APAC
UBS
- Shangfa Yu**
Vice President
Ant Financial
- Adjunct Professor Paul Sin**
Leader of FinTech Practice & Asia Pacific Blockchain Lab
Deloitte
- James Li**
Senior Director of Hong Kong, Macao and Cross-border Financial Affairs
Tencent

Programme Summary

PROGRAMME	:	Finance (FinTech and Financial Analytics)
FACULTY	:	School of Business
DEPARTMENT	:	Department of Finance and Decision Sciences
DEGREE AWARDED	:	Master of Science
DEGREE TYPE	:	Taught Master
YEAR OF ENTRY	:	2020 September
PROGRAMME DURATION	:	1 year (Full-time) or 2 year (Part-time)
FUNDING NATURE	:	Self-financed
TUITION FEE	:	HK\$260,000
STUDY LOCATION	:	Hong Kong
ADMISSION REQUIREMENTS	:	Bachelor's degree from a recognized university or comparable institution, or a professional qualification deemed to be equivalent; Good English proficiency.
EMAIL	:	mscfinance@hkbu.edu.hk
TEL	:	(+852) 34112157
WEBSITE	:	https://mscfinance.hkbu.edu.hk/

APPLICATION DEADLINE
Non-local: 30 APRIL 2020
Local: 8 AUGUST 2020

