

MSc in Finance

FinTech and Financial Analytics

2023-24 Intake





Programme Overview

A practical Programme 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 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, AI, Machine Learning, Financial Computing, Textual Analysis, Cybersecurity, Privacy, Blockchain, Virtual Assets, 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

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 programme 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, Director - Technology & Transformation, New World Development Company Limited

"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 the *leading-edge topics from Finance and Information Systems faculty, and industry experts* from finance, business, and computer science fields.
3. **INDUSTRY EXPERTS:** Advisory committee consists of best-of-field *experts to oversee course content and also share the valuable first-hand experience.*
4. **INDUSTRY PROJECTS:** Offering students *real industry and business experiences, and the opportunity to work with industry experts* via the following **industry project schemes:**

- **Hong Kong Monetary Authority (HKMA) Industry Project Masters Network (IPMN):**

Under the “Fintech 2025” strategy, the Industry Project Masters Network (IPMN) scheme aims to groom fintech talent by providing opportunities to postgraduate students to work on banks’ fintech or industry projects and gain hands-on experience and skills.

- **Hong Kong Science & Technology Park (HKSTP) University Project Launcher**

The University Project launcher of the HKSTP aims to offer practical project-based learning experiences to partnering university students.



Seminar on GDPR



MOU signing ceremony with HKMA

“Cybersecurity and Data Privacy are increasingly becoming board level responsibilities, and the emergence of FinTech and Virtual Assets 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 Master’s 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.”

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

“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.”

Professor of Practice Samson Tai, Former IBM Distinguished Engineer & Chief Technology Officer, IBM China / Hong Kong

Professional Recognition

- Partial exemption for the CFT (Certified Financial Technologist) Programme offered by IFTA (Institute of Financial Technologists of Asia)
- Graduates of the Programme will be exempted for Module 1 (Technology Essentials) and Module 4 (Fundamental Software Development) from the Enhanced Competency Framework on FinTech by HKMA
- Complimentary 2-day IAPP training and exam vouchers for CIPT (Certified Information Privacy Technologist) and CIPP/E (Certified Information Privacy Professional/Europe) professional qualifications (selected students)
- Complimentary student membership to the Fintech Association of Hong Kong (FTAHK)
FTAHK website: <https://ftahk.org>
- Complimentary membership to the International Association of Privacy Professionals (IAPP)
IAPP website: <https://iapp.org/>

All exemptions are subject to the approval of IFTA & HKMA. Updated Information will be provided on the websites of IFTA & HKMA.



Fintech career sharing



Programme Orientation

Industry Recognition

"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



Curriculum Structure*

Core Courses:

1. Blockchain and Virtual Assets
2. Corporate Finance
3. Cybersecurity, Privacy and RegTech for Finance**
4. Financial Computing with Python
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

* Subject to change without prior notice

** 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 receive complimentary one year membership of IAPP, which will allow full access to their online resources and member benefits.

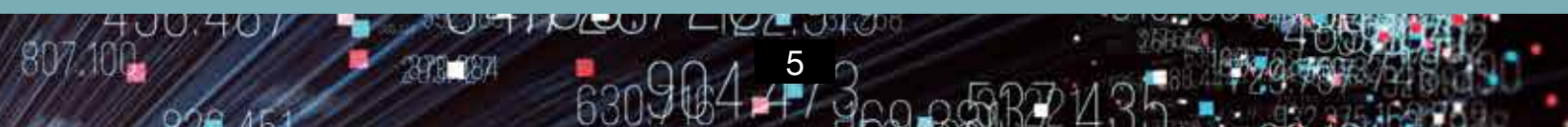


"The urge for fintech talents is prominent and thrived by the Finance industry or inevitably becoming so-called Fintech Industry. HKBU as one of the pioneers in providing Fintech Master Education has captured the demand and needs of Greater Bay Area talents."

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, Founder, FinStep Asia



Scholarships

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

Scholarship / Award	Amount
UGC Fellowships for local students	HK\$120,000
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
IAPP Westin Scholar Book Award	US\$1,000
SlowMist Cybersecurity Award	US\$2,000-4,000
Eddid Financial Scholarship (FinTech)	HK\$10,000

Programme Awards



The programme received the Honorary Award - Fintech Education Contribution in the IFTA Fintech Achievement Awards 2019



The programme received the Diamond Award of Honorary Fintech Education & Talent Development Award from IFTA Fintech & Innovation Awards 2021/2022



The programme received a Bronze Award at the QS-Wharton Reimagine Education Awards 2022 under the category of Digital Readiness

PROGRAMME MANAGEMENT TEAM



Professor Aris Stouraitis

*PhD Finance, Imperial College London
Director, Centre for Corporate Governance & Financial Policy
Programme Director, MSc in Finance (Fintech & Financial Analytics)
Member of Governing Council, IFTA*

Aris's research has been published in the Journal of Financial Economics, Journal of Corporate Finance, Management Science, Journal of Financial & Quantitative Analysis, Review of Finance, and other international journals. His research or commentary has featured on Bloomberg, The Economist, Handelsblatt (Germany), The Straits Times (Singapore), and other media outlets worldwide.



Professor of Practice Samson Tai

DBA, Hong Kong Baptist University

Samson is the former IBM Distinguished Engineer & Chief Technology Officer, IBM China / Hong Kong. At IBM and its Innovation Center at Hong Kong Science Park, Samson designed projects on open data, AI, Blockchain and IoT technologies, including energy optimization for smart cities, and data monetization. He is a Chartered Engineer (CEng MIET), Chartered I/T Professional (CITP MBCS) and a member of The Hong Kong Institute of Engineers (MHKIE).



Ms. Queenie Lee

*Associate Programme Director, MSc in Finance (Fintech & Financial Analytics)
Associate Director, Centre for Corporate Governance & Financial Policy*

University Fellow Mentor, Cyberport University Partnership Programme, Fintech Career Accelerator Scheme (FCAS), Hong Kong Monetary Authority



Professor of Practice Andreas Neuber

*DBA, Hong Kong Baptist University
Associate Director, Centre for Corporate Governance & Financial Policy
Chairman of the Supervisory Board, Deutsche Credit
Capital AG.*

Andreas is a former member of the Board of Directors of UBS China Limited and Group Regional Chief Operating Officer for Asia-Pacific at UBS. During his financial industry career, he has been based in Hong Kong, South Korea, Switzerland, Italy, and Germany.

TEACHING TEAM

The teaching team of this programme includes academic faculty from both Finance and 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.



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 Dorothy Chau

Adjunct Professor Dorothy Chau
Head of Security Special Projects, Crypto.com

Dr. Chau is currently the Head of Security Special Project at Crypto.com. Before joining Crypto.com, she was the Director of Hong Kong, Macao, and Cross-border Financial Affairs at Tencent. Dr Chau was a Senior Lecturer at the HK Baptist University, School of Business before joining the industry.



Adjunct Professor 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.



Adjunct Professor Paul Sin

Director of Technology & Transformation
New World Development Company Limited

Dr. Paul Sin has over 20 years of IT management and consulting experience focusing in financial services sector, currently leading Technology & Transformation in New World Development Company Ltd. Previously, he led the FinTech practice and Asia Pacific Blockchain Lab in Deloitte.



Academic Advisory Committee

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

- 1. 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)
- 2. Prof. Raghavendra Rau**
Sir Evelyn de Rothschild Professor of Finance
Cambridge Judge Business School, University of Cambridge
Director, Cambridge Centre for Alternative Finance (CCAF)
- 3. Prof. Viswanath Venkatesh**
Eminent Scholar and Verizon Chair of Business Information Technology, Pamplin College of Business, Virginia Tech

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.

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| 1. Adjunct Professor Paul Sin
<i>Director - Technology & Transformation, New World Development Company Limited</i> | 7. Karl Wong
<i>Head of Product
Alipay Hong Kong</i> |
| 2. Dr. Ana Cukic
<i>Chief Executive Officer
Armstrong Investment Managers LLP, London, U.K.</i> | 8. Paul Pong
<i>Chairman and Founder
Institute of Financial Technologists of Asia</i> |
| 3. Angelina Kwan
<i>Senior Advisor to the Board
Hashkey Group</i> | 9. Musheer Ahmed
<i>Founder
FinStep Asia</i> |
| 4. Connie Leung
<i>Advisor
Metis Finacial Solutions Limited</i> | 10. XinFa Cai
<i>Special Assistant to the Bank President & Head of
Retail Banking
Ping An Bank</i> |
| 5. Dr. Denis Yip
<i>Chief Executive Officer
ASTRI</i> | |
| 6. James Li
<i>Senior Director of Hong Kong, Macao and Cross-border
Financial Affairs
Tencent</i> | |



Featured Speakers

1. **Aaron Cai**
General Manager, Tencent Blockchain
2. **Allen Ting**
Senior Legal Counsel, Huawei
3. **Bernard Tan**
Chief Counsel – Cybersecurity, SAP
4. **Emil Chan**
Chairman, Association of Cloud and Mobile Computing Professionals
5. **Jacqueline Chan**
Chief Financial Officer, DBS Bank
6. **Laura Cao**
Global Head of Data & Analytics, HSBC Life
7. **Marcus Yuen**
Head of Marketing and Operation, DB Power Online Limited
8. **Michael Yung**
Head of Digital Product and Technology, Asia Miles
9. **Padraig Walsh**
Partner, Tanner De Witt
10. **Philippe Lopez**
ex - Executive Manager, Global Cyber Security Solutions, Commonwealth Bank
11. **Raymond Chan**
Managing Director, 9F International Holdings
12. **Rogers Chan**
Managing Partner, Impact Invest
13. **Sammy Kam**
Technical Director, Octopus Cards Limited
14. **Scott Carlson**
Head of Blockchain Security, Kudelsky Security
15. **Terry Wong**
Co-founder and Senior Advisor, Zegal
16. **Tim Leung**
Group Chief Technology Officer, Tricor Group

Programme Summary

PROGRAMME	:	Finance (FinTech and Financial Analytics)
FACULTY	:	School of Business
DEPARTMENT	:	Department of Accountancy, Economics and Finance
DEGREE AWARDED	:	Master of Science
DEGREE TYPE	:	Taught Master
YEAR OF ENTRY	:	2023 September
PROGRAMME DURATION	:	1 year (Full-time) or 2 year (Part-time)
FUNDING NATURE	:	Self-financed
TUITION FEE	:	HK\$288,000
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/



IANG Visa for Graduates:

Non-local graduates of the programme are eligible to apply for the Immigration Arrangements for Non-local Graduates (IANG) visa which allows non-local graduates to work freely after graduation.

For details, please visit the HKSAR Immigration Department website:
<https://www.immd.gov.hk>



This programme has been included in the list of reimbursable courses under the Continuing Education Fund

Financial Fraud
Algorithmic Trading
Financial Analytics
Machine Learning

Finance and FinTech, AI
Financial Computing
Algorithmic Trading

Privacy, Blockchain, Virtual Assets

Textual Analysis, Cybersecurity
Regulatory Compliance