

Co-organisers:



Executive
Education
高層管理教育



HKU-Cyberport

Leading FinTech Ventures

Prepare Business Leaders & Entrepreneurs for FinTech Initiatives

Strategic Partners:



SECURITIES AND
FUTURES COMMISSION
證券及期貨事務監察委員會

Approved by:



About The Programme

Financial Technology (FinTech) represents a combination of financial services with Information Technology (IT). From making mobile payments to handling complex financial data at work, FinTech has (and will continue to) defined the direction, shape, and pace of change across many industry sectors.

To meet the current and future demands, the HKU-Cyberport Leading FinTech Ventures Programme aims to **groom leaders and talents for the future FinTech** in Hong Kong and the Greater Bay Area.

Driving deep on both financial and technological considerations, the programme is designed to equip participants with **in-depth knowledge and skills at the intersection of technology, financial services and entrepreneurship**. The programme is ideal for FinTech enthusiasts who are looking to **launch a FinTech startup or implement innovation projects** within an incumbent. The programme is unique by drawing renowned Faculty members from HKU Business School, Department of Computer Science, Faculty of Law as well as the incubation programmes for FinTech Ventures offered by Hong Kong Cyberport Management Company Limited.

Programme Length

10 days (6 hours per day)

Venue

Cyberport, Hong Kong

Medium of Instruction

English

Delivery Approach

Face-to-face

Tuition Fee

HK\$60,000 per participant

Reindustrialisation and Technology Training Programme (RTTP) offers 2/3 course fee reimbursement upon successful application. (Click [here](#) for more information)

Discounts*

- **Early Bird - 10% off**
(Register before 30 November 2022)
- **Group - 15% off**
(Minimum of 3 participants from the same organisation)
- **HKU Alumni and Staff - 20% off**

* Only one type of discount can be applied per enrollment. The discount cannot be used in conjunction with other promotions, discounts or offers. In the event of a dispute, provision of the discount(s) is subject to the sole discretion and final decision of HKU Business School.

Programme Structure

Module 1: Clustered and Cloud Computing

- Various issues in the design and implementation of cloud systems
- Cloud delivery models (SaaS, PaaS, and IaaS) with motivating examples from Google, Amazon, and Microsoft; virtualisation techniques implemented in Xen, KVM, VMWare, and Docker
- Distributed file systems, such as Hadoop file system; MapReduce and Spark programming models for large-scale data analysis
- Networking techniques in cluster and hyper-scale data centres

Module 2: Cyber and Information Security

- Introduces the principles, mechanisms and implementation of cyber security and information protection
- Introduction to cryptography; symmetric key cryptography and public key cryptography & PKI (Public-key infrastructure)
- Introduction to hashing and integrity
- Authentication techniques: authentication protocols, access controls and security policy
- Network and Internet security: Firewall, IDS, application, wireless and web security
- Incidence response, penetration test, and cyber threat assessment

Module 3: Alternative Data in Financial Asset Pricing and Investment

- Advances in Artificial Intelligence.
- Machine Learning practice in credit market.
- Advances of Machine Learning research in financial asset pricing.
- Machine Learning practice in quantitative trading.
- What to do and what not to do with Machine Learning when applying to financial market

Module 4: Machine Learning and Artificial Intelligence in Finance

- Learn the alternative data landscape, types of data, sources of data collection, industry vendors
- Understand various use cases of big and alternative data in quantitative and traditional discretionary trading
- Discuss developing issues related to privacy, compliance and other legal considerations

Module 5: Blockchain, Smart Contracts and DeFi

- Textual Analysis for Policy Interpretation
- Cryptocurrency, Trust, and Social Media
- Cross-border Digital Transfer

Module 6: Entrepreneurial Finance and Innovation Strategy

- Investment Strategies of PE, VC, and CVC
- New Trends in M&A / IPO
- SPACs
- Value of Financial Innovations

Module 7: Financial Innovations and FinTech Market Development

- FinTech Credit Market Development
- Financing the FinTech Credit
- Joint Lending and Business Models in FinTech Credit Market
- Credit Information Sharing and New Regulation
- Structured Finance and Credit Derivatives in FinTech Market
- Blockchain Applications in Supply Chain Finance
- Blockchain Applications in Trade and International Finance

Module 8: Privacy Enhancing Technologies and Federated Learning

- An introduction to the concept of "privacy"
- Existing ordinance and regulations related to privacy in different countries / regions and how it affects the issues of data trading and sharing
- Introduction to privacy enhancing technologies
- Introduction to federated learning
- How to share / trade data or information of data while protecting the privacy and the trade secrets of the data using existing technologies
- The future trend of data sharing and trading in finance

Module 9: Regulation, Data Privacy and Competition Law

- Introduction to key regulatory issues for FinTechs
- Financial regulation: Banking, securities, insurance
- Data regulation: Cybersecurity, privacy, outsourcing - Local, crossborder
- RegTech and SupTech
- Other regulatory concerns: Competition, telecoms and beyond

Module 10: Behavioural Science and its Applications in FinTech

- Why personal behavioural traits matter: the value of understanding and applying behavioral knowledge in FinTech
- Basic knowledge of behavioural science: the commonly faced behavioral patterns and the roles they play in finance
- How to capture personal behaviours in big data: what data is relevant and how to use the data to compute relevant features
- Incorporating behavioural features in FinTech applications: application in the credit models, in investment product design, in "nudging" customer choices, etc.

Faculty Profile



Prof. Chen Lin

Ph.D., M.A., M.B.A., University of Florida
B.E., South China University of Technology

- Associate Dean (Research and Knowledge Exchange)
- Chair of Finance
- Stelux Professor in Finance
- Director, Centre for Financial Innovation and Development
- DBA Programme Director
- Ph.D., M.A., M.B.A., University of Florida
- B.E., South China University of Technology



Prof. Douglas Arner

Ph.D., University of London
LLM, Southern Methodist University
BA, Drury College

- Kerry Holdings Professor in Law
- RGC Senior Fellow in Digital Finance and Sustainable Development
- Associate Dean (Taught Postgraduate & Development), Faculty of Law
- Associate Director, HKU-Standard Chartered FinTech Academy



Prof. Yiu, Siu Ming

Ph.D., HK
M.S., Temple University
B.Sc., CUHK

Associate Head (Teaching and Learning)
Professor



Dr. Luo Ye

Ph.D., MIT
B.S., MIT

Associate Professor



Dr. Mingzhu Tai

Ph.D., Harvard University
Master and Bachelor degrees,
Tsinghua University

Assistant Professor



Dr. Yang You

Ph.D., Harvard University
Bachelor degree, Tsinghua University

Assistant Professor

Who Should Attend?



- **Aspiring FinTech entrepreneurs and technical leaders of FinTech startups** seeking to gain solid knowledge foundation of the FinTech tools that add value to the ventures
- **Mid- to senior level managers on the technical side of things** who are (or about to be) involved in FinTech projects and initiatives in their respective organisations in the banking and financial services industry;
- **Professionals**, who are interested in gaining a deeper understanding of FinTech trends, ecosystems, tools and methods of executing financial technology innovations.

Special Offer



Start-up Mixers and **Final Pitch** are co-organised by Cyberport Academy and HKU Business School Executive Education to allow HKU-Cyberport Leading FinTech Ventures programme students to experience the journey of tech start-up from team dynamic, idea development, mentorship and pitch exercises.

Students will learn from award-winning FinTech start-ups about their secret sauce of minimal viable products development, and the challenges often encountered by start-ups. At the Final Pitch, students shall develop and pitch their business ideas by teams, and have the opportunity to be shortlisted for the interview of Cyberport Creative Micro Fund ('CCMF') to win **HK\$100,000 seed funding** to realise their dreams.

Enquiries / Registration

Should you need further information about the programme, please contact us:

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