

[\[Register 報名\]](#)

- Date: every Tue & Thur night at 7pm-9pm (19/9/2023-27/10/2023), **last training course will be on Fri**
- Format: hybrid (CityU campus & zoom), plus recording for revision afterward
- 日期: 逢星期二及四晚上七時至九時 (19/9/2023-27/10/2023), **最後一節課堂於星期五舉行**
- 形式: 混合 (城市大學校園及 zoom), 及錄影片段以供重溫

Training Course Overview 培訓課程概覽

Session 節數	Training Topic 培訓課程	Speaker 講者	Venue 場地
1: 19/9 (Tue)	Introduction to FinTech and the Tech of FinTech 金融科技及應用於金融科技的技術簡介	Alan CHEUNG / Simon LEE (ASTRI)	Mr and Mrs Sze Chi Ching Lecture Theatre 施子清伉儷演講廳 (LT-2)
2: 21/9 (Thu)	Artificial Intelligence and Machine Learning for Financial Services 金融服務的人工智能和機器學習	Qijun ZHU (ASTRI)	Li Dak Sum Yip Yio Chin Academic Building, Li-6376 李達三葉耀珍學術 樓, Li-6376
3: 26/9 (Tue)	Cybersecurity Strategies for FinTech 金融科技的網絡安全策略	Ricky LEUNG (ASTRI)	Li Dak Sum Yip Yio Chin Academic Building, Li-6376 李達三葉耀珍學術 樓, Li-6376
4: 28/9 (Thu)	RegTech : FinTech Governance & Regulations, Challenges & Risk Management 監管科技 : 金融科技管治與法規、挑戰與風險管理	Joseph LAM (Deloitte)	Li Dak Sum Yip Yio Chin Academic Building, Li-6376 李達三葉耀珍學術 樓, Li-6376
5: 3/10 (Tue)	Blockchain : Basics and Use Cases 區塊鏈 : 基礎知識和範例	LAM Chan Fai (ASTRI)	Lau Ming Wai Academic Building, LAU-5-203 劉鳴煒學術樓, LAU-5-203
6: 5/10 (Thu)	Case (Banking): AI, Big Data & FinTech: How to Stay Ahead in the Banking Industry 事例 (銀行): 人工智能、大數據和金融科技: 如何在銀行業保持領先地位	Asa CHAN (ASTRI)	Li Dak Sum Yip Yio Chin Academic Building, Li-6376 李達三葉耀珍學術 樓, Li-6376
7: 10/10 (Tue)	Case (Insurance): Role of FinTech in Building Inclusive & Vibrant Insurance Markets 事例 (保險): 建立包羅萬象和瞬息萬變的保險市場時, 金融科技的角色及作用	Arvin TANG (ASTRI)	Lau Ming Wai Academic Building, LAU-5-203 劉鳴煒學術樓, LAU-5-203
8: 12/10 (Thu)	Payments & Cryptocurrencies : Introduction & Applications 支付模式和 加密貨幣 : 介紹和應用	LAM Chan Fai (ASTRI)	Li Dak Sum Yip Yio Chin Academic Building, Li-6376 李達三葉耀珍學術 樓, Li-6376

9: 17/10 (Tue)	Web 3.0 & Decentralized Finance (DeFi) Web 3.0 與去中心化金融 (DeFi)	Jacky ZHANG (ASTRI)	Lau Ming Wai Academic Building, LAU-5-203 劉鳴煒學術樓, LAU-5-203
10: 19/10 (Thu)	Case (GBA): FinTech Innovations for Cross-Border Banking and Insurance Services in the Greater Bay Area 事例 (大灣區): 大灣區跨境銀行和保險服務的創新金融科技	Andrew WONG (Deloitte)	Li Dak Sum Yip Yio Chin Academic Building, LI-2513 李達三葉耀珍學術樓, LI-2513
11: 24/10 (Tue)	Case (Digital): Digital customer journey & UX/UI development 事例 (數碼化): 數碼化客戶旅程與 UX/UI 的創建	Jerry CHU (Deloitte)	Li Dak Sum Yip Yio Chin Academic Building, Li-6376 李達三葉耀珍學術樓, Li-6376
12: 27/10 (Fri)	Case (Sustainability): Data analytics and Sustainability 事例 (可持續發展): 數據分析與可持續發展	Francis LAU (Deloitte)	Li Dak Sum Yip Yio Chin Academic Building, Li-6376 李達三葉耀珍學術樓, Li-6376

*For the direction to the training venues, please refer to the Campus Map: [Click here](#)

前往培訓課程場地的路線，請參閱校園地圖：[按此](#)



Training Course and Speakers Introduction 培訓課程及講者簡介

<p>Training Course Chapter ONE 第一堂</p> <p>◆ Introduction to FinTech and the Tech of FinTech 金融科技及應用於金融科技的技術簡介</p>	<p>Speaker 講者</p> <p>Alan CHEUNG ASTRI Senior Director – Trust & AI Technologies Technology Division Head/ Simon LEE ASTRI Director –FinTech, Prop Tech & Art-Tech</p>
<ol style="list-style-type: none"> 1. Eras of FinTech Evolution 金融科技演進時代 2. Benefits of FinTech 金融科技的優勢 3. Worldwide progress 全球發展 4. Key Technologies overview 關鍵技術概述 5. Adoptions barriers and concerns 應用障礙和擔憂 6. Support by government and institution 政府和機構的支持 7. Glimpse of the future trend 未來趨勢概述 	<p>Alan CHEUNG: Alan has more than 20 years of experience in research and development. He leads the division in driving ASTRI's initiatives, particularly in Fintech and Smart City areas with innovative applications such as blockchain systems, cybersecurity, secure fintech services, federated learning, risk assessment and multimedia data analytics. Being a proactive collaborator with strong business acumen, Alan is always keen to connect commercial partners to develop innovative use cases across industry sectors. He is a pioneer in Blockchain technology, and his research focus spans both hardware and software applications in the secured systems domain.</p> <p>Simon LEE: Simon Lee is a seasoned business development director and pricing consultant skilled in structuring, negotiating, and implementing innovative technology solutions. With extensive experience in FinTech, PropTech, Art-Tech, and IT Outsourcing, Simon has a proven track record in global new business engagement. He spent his early career as a pricing manager at IBM and T-Systems in the UK, handling global IT outsourcing deals before joining ASTRI.</p>

<p>Training Course Chapter TWO 第二堂</p> <p>◆ Artificial Intelligence and Machine Learning for Financial Services 金融服務的人工智能和機器學習</p>	<p>Speaker 講者 Qijun ZHU ASTRI Chief Engineer – Trust & AI Technologies</p>
<ol style="list-style-type: none"> 1. Introduction for AI, Machine Learning and Deep Learning 人工智能、機器學習和深度學習簡介 2. AI with FinTech: History, applications, Key technologies 人工智能與金融科技：歷史、應用、關鍵技術 3. Key technology 1: Natural Language Processing 關鍵技術 1：自然語言處理 4. Key technology 2: Knowledge Graph and graph analytics 關鍵技術 2：知識圖譜和圖像分析 5. Key technology 3: Predictive analytics and Recommendation 關鍵技術 3：預測分析與推薦 6. Future of AI for FinTech: Strategic focuses 金融科技人工智能的未來：戰略重點 	<p>Dr. Qijun Zhu is the Chief Engineer of the Data Analytics (DATA) team at the Hong Kong Applied Science and Technology Research Institute (ASTRI). He has more than 11 years of research and development experience in data analytics, machine learning, distributed system, and cloud computing. Dr. Qijun Zhu earned his Ph.D. degree from HKUST and has published five papers in the top journals/conferences and filed four US/CN patents. He is the PC and tech leader of over six ITC projects covering FinTech, document AI, recommender systems, etc.</p>
<p>Training Course Chapter THREE 第三堂</p> <p>◆ Cybersecurity Strategies for FinTech 金融科技的網絡安全策略</p>	<p>Speaker 講者 Ricky LEUNG</p>
<ol style="list-style-type: none"> 1. Relationship between FinTech and Cybersecurity 金融科技與網絡安全 2. Deep Dive into FinTech Cybersecurity (e.g. AI, Blockchain) 深入探索金融科技網絡安全 (如 人工智能、區塊鏈) 3. Pentest Demonstration 滲透測試示範 	<p>Ricky holds a MPhil degree in Computer Science. He had been a Project Manager for 3 years in LSCM and a start up company of smart construction in managing innovative R&D projects. Since joining ASTRI in 2018, he has been participating in and managing ITF projects related to cybersecurity analytics.</p>
<p>Training Course Chapter FOUR 第四堂</p> <p>◆ RegTech: FinTech Governance & Regulations, Challenges & Risk Management 監管科技：金融科技管治與法規、挑戰與風險管理</p>	<p>Speaker 講者 Joseph LAM Deloitte Director, Risk Advisory (IT & Specialized Assurance)</p>
<ul style="list-style-type: none"> • What is governance? 什麼是管治？ • How governance plays in FinTech? 管治如何在金融科技中發揮作用？ • A glance on FinTech regulations 金融科技法規概覽 • The challenges.... 挑戰... • How risk management works in the FinTech world? 金融科技領域的風險管理如何運作？ • Use cases 事例 • What is the future 未來會是怎樣？ 	<p>Joseph is a Director of the Risk Advisory – IT & Specialized Assurance practice of Deloitte China. He has more than 15 years of experience on system-process advisory services, SOX attestation/ advisory services, information system security audit/ review, computer controls assessment and exploratory data analysis (EDA) for a wide spectrum of industries including financial institutions, education, real estates, consumer businesses, life science and manufacturing in the Greater China region.</p>

<p>Training Course Chapter FIVE 第五堂</p> <p>◆ Blockchain: Basics and Use Cases 區塊鏈：基礎知識和範例</p>	<p>Speaker 講者 LAM Chan Fai ASTRI Deputy Director – Trust & AI Technologies</p>
<ol style="list-style-type: none"> 1. Introduction of blockchain 區塊鏈介紹 2. Blockchain technology 區塊鏈技術 3. Blockchain Implementations 區塊鏈應用 <ol style="list-style-type: none"> a. Proof-of-work, proof-of-stake 工作量證明、權益證明 b. Public blockchain, private blockchain 公共鏈、私人鏈 c. Main chain, side chain 主鏈、支鏈 d. Native coins, ERC20 coins 原生幣、ERC20 幣 e. NFT 非同質化代幣 (NFT) f. Decentralized Autonomous Organization (DAO) 去中心化自治組織 (DAO) 4. Blockchain use cases 區塊鏈事例 5. Adoption & Deployment of Blockchain 區塊鏈的應用和部署 6. Blockchain Risk Management & Regulation 區塊鏈風險管理與監管 	<p>Mr Lam has 30 years of working experience in software development. His experience in the IT industry includes research and development of blockchain systems, central bank digital currency, fintech applications, embedded systems, and network protocols. He has over 8 years of R&D experience in blockchain technology and application development, and has led his team in the successful development and deployment of blockchain systems for various companies in Hong Kong.</p>

Training Course Chapter SIX 第六堂 ◆ Case (Banking): AI, Big Data & FinTech: How to Stay Ahead in the Banking Industry 事例（銀行）：人工智能、大數據和金融科技：如何在銀行業保持領先地位	Speaker 講者 Asa CHAN ASTRI Principal Engineer – Trust & AI Technologies
<ol style="list-style-type: none"> Digital Banking 數字銀行 <ol style="list-style-type: none"> Digital Banking Channel 數字銀行途徑 Digital Banking Functionality 數字銀行功能 Direct Banking 直銷銀行 Supporting Technology 配套科技 <ol style="list-style-type: none"> Smartphone 智能手機 Social Media 社交媒體 Customer Tech 客戶技術 Phone system 電話系統 Internet of things (IOT) in Banking 應用於銀行的物聯網科技 Chatbot 聊天機器人 FinTech Implications for Banks 銀行的應用金融科技 	<p>Asa is the Principal Engineer of the Computational Linguistics & Intelligence. He has over 15 years of experience in information system development and joined ASTRI in 2014 to work on AI-related projects including Natural Language Processing, Auto Speech Recognition and Chatbot solutions for bank, the jewelry industry, property management, Hospital Authority, and government departments. Asa holds a master's degree in information system management and a bachelor's degree in computer science from the City University of Hong Kong and the Hong Kong University of Science and Technology respectively. He also is PMP certified.</p>

Training Course Chapter SEVEN 第七堂 ◆ Case (Insurance): Role of FinTech in Building Inclusive & Vibrant Insurance Markets 事例（保險）：建立包羅萬象和瞬息萬變的保險市場時，金融科技的角色及作用	Speaker 講者 Arvin TANG ASTRI Director – Trust & AI Technologies
<ol style="list-style-type: none"> Existing insurance value chain 現有保險價值鏈 Insurance Sector Landscape 保險業的發展格局 Current Pain Points on Insurance Sector and what are the Challenges 保險業當前的痛點和挑戰 Opportunities from the pain points and ongoing challenges 痛點帶來的機遇和持續挑戰 The impact of FinTech to Insurance Sector 金融科技對保險業的影響 How to structure business models from technologies in FinTech 如何善用金融科技中的技術構建商業模式 Global / local cases sharing in the insurance markets 保險市場全球 / 本地事例分享 	<p>Dr Arvin TANG is the Director of the Multimedia Systems and Analytics, Trust and AI Technologies division at ASTRI. He has more than 20 years of research and development in artificial intelligence and computer vision. He currently leads a research and development team in ASTRI focusing on developing federated learning platforms and applications, artificial intelligence, natural language processing, image processing and computer vision on multimedia applications. The well-known products are the handwritten Chinese Character Recognition Platform and Automated Document Processing System.</p>

Training Course Chapter EIGHT 第八堂 ◆ Payments & Cryptocurrencies: Introduction & Applications 支付模式和加密貨幣：介紹和應用	Speaker 講者 LAM Chan Fai ASTRI Deputy Director – Trust & AI Technologies
<ol style="list-style-type: none"> 1. History of payment medium 支付媒介的歷史 2. Electronic Payment 電子支付 <ol style="list-style-type: none"> a. Benefits of electronic payments 電子支付的優勢 b. Technological overview of electronic payments 電子支付技術概述 c. Electronic payment types 電子支付類別 d. HK electronic payment systems 香港電子支付系統 3. Cryptocurrency Payment 加密貨幣支付 <ol style="list-style-type: none"> a. Motivation for cryptocurrency payment 加密貨幣支付的動機 b. Innovative payment solutions of cryptocurrency 創新的加密貨幣支付解決方案 c. Case Study 事例分析 d. Risks 風險 4. Stablecoin 穩定幣 <ol style="list-style-type: none"> a. Motivation for Stablecoin 穩定幣的動機 b. Types of stablecoin & comparison 穩定幣的類型和比較 c. Case study 事例分析 5. R-CBDC 零售中央數字貨幣 <ol style="list-style-type: none"> a. Motivation for R-CBDC 零售中央數字貨幣的動機 b. R-CBDC infrastructure 零售中央數字貨幣的基礎建設 c. Innovative payment solutions of R-CBDC 零售中央數字貨幣的創新支付解決方案 d. Case Study 事例分析 	<p>Mr Lam has 30 years of working experience in software development. His experience in the IT industry includes research and development of blockchain systems, central bank digital currency, fintech applications, embedded systems, and network protocols. He has over 8 years of R&D experience in blockchain technology and application development, and has led his team in the successful development and deployment of blockchain systems for various companies in Hong Kong.</p>

<p>Training Course Chapter NINE 第九堂</p> <p>◆ Web 3.0 & Decentralised Finance (DeFi): Changing the Conversation of Digital Creativity & Value 第三代互聯網 (Web 3.0) 和去中心化的金融發展 (DeFi)：不斷演進的對話：數字創意與價值</p>	<p>Speaker 講者 Jacky ZHANG ASTRI Principal Engineer – Trust & AI Technologies</p>
<ol style="list-style-type: none"> 1. Digital Asset: History, Development, and Current State 數字資產：歷史、發展與現狀 2. Digital Creativity, Intellectual Property (IP), and Royalty Program 數字創意、知識產權 (IP) 和會員計劃 3. Personalization and Identity 個人化和身份 4. Immersive Virtual, Augmented and Mixed Realities (“VR”, “AR” and “MR”) 沉浸式虛擬、增強和混合實境 (“VR”, “AR” and “MR”) 5. Artificial Intelligence Generated Content (AIGC) 人工智能生成內容 (AIGC) 6. Decentralized Finance (DeFi) and Metaverse 去中心化金融和元宇宙 	<p>Jacky is currently the Principal Engineer of Data Analytics (DATA) team in Hong Kong Applied Science and Technology Research Institute (ASTRI). He has more than 14 years of experience in research and development. He has belief in introducing technology to make life different and is always keen in quantitative trading, blockchain system, cloud computing and machine learning. He earned his MPhil degree from City University of Hong Kong and has published 9 papers in international conferences.</p>
<p>Training Course Chapter TEN 第十堂</p> <p>◆ Case (GBA): FinTech Innovations for Cross-Border Banking and Insurance Services in the Greater Bay Area 事例（大灣區）：大灣區跨境銀行和保險服務的創新金融科技</p>	<p>Speaker 講者 Andrew WONG Deloitte Specialty Director</p>
<ol style="list-style-type: none"> 1. The banking challenges serving the Greater Bay Area 大灣區銀行業務的挑戰 2. FinTech use cases in cross-border banking services 跨境銀行服務中的金融科技用例 3. GBA opportunities for insurance 大灣區保險行業機遇 4. Strategy and products innovation 策略與產品創新 	<p>Andrew has 25 years of IT architecture, project delivery and consulting experience focusing in financial services sector, currently be Specialist Director in the FinTech COE. Prior to Deloitte, Andrew served as Head of Architecture for a bank, as well as technical leader for a virtual bank and global consulting firms: IBM and Accenture, specialized in emerging technologies, such as Advance Analytics, Open API, Microservices, Blockchain and Cloud Computing.</p>
<p>Training Course Chapter ELEVEN 第十一堂</p> <p>◆ Case (Digital): Digital customer journey & UX/UI development 事例（數碼化）：數碼化客戶旅程與 UX/UI 的創建</p>	<p>Speaker 講者 Jerry CHU Deloitte Executive Creative Director</p>
<ol style="list-style-type: none"> 1. Shaping fintech by design 以設計塑造金融科技 2. Industry case study 行業實例 3. Human centric design 以人為本的設計 4. Project workflow and process 項目流程設計 	<p>Jerry is the Executive Creative Director at Deloitte Digital in Hong Kong. With close to two decades of working experience and over 10+ years as digital advertising creative lead, he has led countless campaigns for most well known brands around the world across different categories.</p>

Training Course Chapter TWELVE 第十二章 ◆ Case (Sustainability): Data analytics and Sustainability 事例（可持續發展）：資料分析與可持續發展	Speaker 講者 Francis LAU Deloitte Director, Consulting
<ol style="list-style-type: none"> 1. Sustainability: an overview 可持續發展：概覽 2. Analytics for corporate sustainability 分析企業的可持續性發展 <ol style="list-style-type: none"> a. Environmental analytics: assess impacts of physical and transition risks 環境分析：評估物理和過渡風險的影響 b. Social analytics: understand needs of stakeholder groups 社會分析：了解持份者群組的需求 c. Governance assessment: evaluate effectiveness of internal control framework 管治評估：評估內部控制框架的有效性 3. Sustainability analysis cycle 可持續性發展分析週期 <ol style="list-style-type: none"> a. Vision and execution 願景與執行 b. Risk and mitigation 風險和緩解 c. Data capture and analysis 數據採集和分析 d. Communication and compliance 溝通與合規 4. Starting the analytics journey 啟動分析之旅 <ol style="list-style-type: none"> a. Identify topic of interest 確定分析範圍 b. Establish analysis objectives 建立分析目標 c. Engage management and stakeholders 管理層和持份者共同參與 d. Develop execution plan for sign off 制訂簽核執行計劃 	<p>Francis is a seasoned banking analytics and financial research practitioner with a Doctor of Philosophy (PhD), a Chartered Financial Analyst, and a Financial Risk Manager. He joined Deloitte in June 2022 with 20 years of experience in banking analytics across capital markets, consumer, and wholesale banking segments. Before joining Deloitte, he was Director, Research and Consulting, Asia Pacific of a global information and insights provider based in Hong Kong. Francis has extensive experiences in data analytics, internal control, regulatory compliance, risk management, and strategic planning.</p>

Training designed & delivered by Hong Kong Applied Science and Technology Research Institute (ASTRI)

The Hong Kong Applied Science and Technology Research Institute (ASTRI) was founded by the Government of the Hong Kong Special Administrative Region in 2000 with the mission of enhancing Hong Kong's competitiveness through applied research. ASTRI's core R&D competence in various areas is grouped under four influential technology divisions: trust and artificial intelligence (AI) technologies, communications technologies, Internet of Things (IoT) sensing and AI technologies, as well as integrated circuits and systems. It is applied across six core areas which are Smart City, Financial Technologies, Re-Industrialisation & Intelligent Manufacturing, Digital Health, Application Specific Integrated Circuits and Metaverse.

Over the years, ASTRI has nurtured a pool of research, I&T talents and received numerous international awards for its pioneering innovations as well as outstanding business and community contributions. As of 2021/22, ASTRI transferred almost 1,250 technologies to the industry and granted over 1,000 patents in the Mainland, the US, and other countries.

ASTRI's Financial Technologies (FinTech)

is one of the cornerstones of the sector's continued growth. Advanced FinTech solutions make financial services faster, more reliable, and more secure. They make it easier for banks, insurers and other financial service providers to cater to the needs of their customers and lets the customers in turn access their accounts and information in a far more intuitive way.

We work to deliver innovative technologies with applications in the financing sector – our FinTech teams develop solutions that leverage Blockchain technology, strengthen cybersecurity, make sense of big data, and provide valuable proofs-of-concept that benefit the entire financial industry. As one of Hong Kong's strongest FinTech R&D groups, we are committed to helping drive the sector's growth into a new era and help contributing to the development of Hong Kong as an international financial hub.

ASTRI's FinTech Research Areas & Focus

Cybersecurity

Developing platform technology and automated security threat analytics. Training of security professionals

Blockchain

Building applications on major blockchain platforms, including Bitcoin, Monax, Corda, Ethereum and Hyperledger, etc. Enhancing the blockchain consensus algorithm and network security

Big Data Analytics, Artificial Intelligence and Deep Learning

Leveraging big data technologies as well as machine learning, deep learning and graph algorithms for providing data management, analytics and regulatory solutions

For further information, please visit website: www.astri.org | linkedin: <https://bit.ly/3dOBj9D>

設計及提供培訓教學：香港應用科技研究院（應科院）

香港應用科技研究院（應科院）由香港特別行政區政府於 2000 年成立，其使命是透過應用科技研究提升香港的競爭力。應科院的主要科技研發領域可歸納於四個技術部門，包括：可信及人工智能技術、通訊技術、物聯網感測與人工智能技術、集成電路及系統。而技術研發主要應用在六項重點範疇：智慧城市、金融科技、再工業化及智能製造、數碼健康科技、專用集成電路及元宇宙。

多年來，應科院致力培養研究及創科人才，並憑著其技術創新及對工商業界和社區的傑出貢獻而屢獲國際殊榮。截至 2021/22 年度，應科院已將接近 1,250 項技術轉讓給業界，並於中國內地、美國及其他國家獲授超過 1,000 項專利。

應科院的金融科技

金融科技是金融產業持續發展的基石之一。先進的金融科技令香港的金融服務更快捷、可靠和安全。憑藉金融科技，銀行、保險公司和其他金融服務提供者，更能配合客戶的需要，方便和安全地存取自己的帳戶和獲取相關資料。

應科院致力發展創新金融科技，並將新技術應用於金融業。我們的金融科技團隊所研發的技術方案，能活用區塊鏈技術增強網絡安全，同時利用大數據的優勢及提供重要的概念驗證系統，令金融業界整體受惠。作為香港的重點金融科技研發機構，應科院致力推動金融業邁向全新科技紀元，為香港發展成為國際金融樞紐出一分力。

應科院的金融科技研發範疇

網絡安全

開發平台技術和自動化安全威脅分析

培訓安全專業人員

區塊鏈

在主要區塊鏈平台上構建應用程序，包括 Bitcoin、Monax、Corda、Ethereum、Hyperledger 等，增強區塊鏈一致性算法和網絡安全

大數據分析，人工智能和深度學習

利用大數據技術以及機器學習，深度學習和圖形算法，提供數據管理，分析和監管解決方案

如欲查閱更多信息，請瀏覽網頁: www.astri.org | linkedin: <https://bit.ly/3dOBj9D>