

## CURRICULUM VITAE

### PERSONNEL DETAILS:

Name : Sau Mui LAU, Adela  
Sex : Female  
Email Address : dr.adela.lau@gmail.com



### RESEARCH SPECIALITIES

1. Social Media and Big Data Analytics
2. Business/Health Informatics and Artificial Intelligence
3. Video Analytics, AI chatbot, and Metaverse
4. Risk Management and Business intelligence
5. E-learning and Knowledge Management
6. IS adoption, E-business Strategies and Applications (Healthcare, Finance, Marketing, and Supply Chain Management)

### TEACHING SPECIALITIES (1997 – PRESENT)

1. Capstone Projects, Service Learning, Virtual Internship, and Program Directorship
2. Data Analytics, Social Media Analytics, and Big Data Analytics
3. Artificial Intelligence, and Computer Programming, and Data Structure
4. Health Informatics, E-patient Records, and Healthcare Analytics
5. Risk Management, Business Intelligence and Digital Marketing
6. E-commerce/E-business, Information Systems and Technology, and Knowledge Management
7. Enterprise Management, Logistic Management, and Customer Relationship Management

### AWARDS RECEIVED

2010 NANDA Foundation Research Grant Award (USA - international open competition)  
2009 Inaugural Teaching and Learning Showcase Award, PolyU  
2007 Faculty Merit Award in Services, PolyU

### RESEARCH INDEX

H Index = 10 (<https://scholar.google.com/citations?user=-QDlxcQAAAAJ&hl=zh-TW>)  
Citation = 750

### QUALIFICATION:

**2022 QS World University Ranking:** <http://www.topuniversities.com/qs-world-university-rankings>

**The Chinese University of Hong Kong (*ranked 39 in the world*)** 1999 - 2002  
Doctor in Philosophy in stream of Information Systems and Finance Engineering (2002)

**The University of Hong Kong (*ranked 22 in the world*)** 1996 - 1997  
Master of Science in Computer Science (1997)

**City University of Hong Kong (*ranked 53 in the world*)** 1993 - 1996  
Degree of Bachelor of Engineering with second class Honours, upper division  
in Electronic Engineering (1996)

### OTHER CERTIFICATIONS:

LCC level II in bookkeeping (*with distinction*) 1991  
LCC level III in accounting (*with distinction*) 1991

### LEADERSHIP (IN UNDERGRAGUATE AND POSTGRADUATE STUDY):

1. Class representative in the University of Hong Kong
2. Group representative in City University of Hong Kong

**TECHNICAL SKILLS:**

Programming languages

<b>Data/text mining:</b>	Weka, R, RapidMiner, SPSS, SAS
<b>Big Data/AI:</b>	Apache Spark, SparkR, SparkSQL, Spark MLlib, Spark RDD, Hadoop MapReduce, QlikSense, Tensorflow, Keras, PyTorch
<b>Web Services:</b>	REST API, WSML, WSMO, WSDL, OWL/RDF, XML, SOAP, HTML, WML, AWS
<b>Programming:</b>	Python, Java language, JavaScript, Java Servlet, json, JSP, C/C++ programming language, Assemble, FOOPS language, Matlab, CLIPS, MIDlets, Pascal, Dephi, Django, Flask, Lua
<b>Database:</b>	Oracle, IBM websphere, MySQL, NoSQL, MS Access
<b>Computer Knowledge</b>	Window, Unix, Internet, Dos, Microsoft Word, Microsoft Excel, Lotus, Pads. Microsoft Access, Lotus Notes, social network software such as RSS, Blogs and etc.

**LANGUAGES:**

**Spoken:** English, Cantonese, Mandarin

**Written:** Chinese and English

**HOBBIES:**

Reading, Swimming & Fitness

**BIOGRAPHICAL INFORMATION:**

Dr Adela Lau is a Lecturer of Data Science at Department of Statistics and Actuarial Science of University of Hong Kong. Dr Lau published over 40 journal and conference papers and funded over 30 research and industrial collaboration and consultancy projects in the area of machine learning, business intelligence, social media and big data analytics, intelligence applications, risk management, information system adoption, ontology/taxonomy building, business process re-engineering, portal design, knowledge management, e-learning, public/community health studies, healthcare systems and nursing clinical quality control & assessment. She gained several awards including NANDA Foundation Research Grant Award (USA), Faculty Merit Award in Services (HK), and Inaugural Teaching and Learning Showcase Award (HK). She was the former director of Center for Business Development at Madonna University in USA, and the co-director of the Center for Integrative Digital Health at Hong Kong Polytechnic University (PolyU) and led the IT team for healthcare product innovation. Dr Lau was an active committee member of Knowledge Management Research Center at PolyU and Data Science Center at Hong Kong University of Science and Technology (HKUST), in which she initiated and developed industrial applied-research consultancy projects. She was also the UG coordinator of the Risk Management and Business Intelligence Program at HKUST, and was responsible to lead, execute, and coordinate the program works including curriculum design, enrichment programs, and administration across three schools of business, science, and engineering.

## **APPLIED-RESEARCH LEADERSHIPS**

### **Applied-Research Leadership**

- Deputy Director, HKU SAAS Data Science Lab, The University of Hong Kong (2020 – Present)
- Director, Center for Business, School of Business, Madonna University (2018 -2020)
- Committee member of Institution Research Broad, Madonna University (2019 – 2020)
- Committee member of Data Science Center, HKUST (2010-2016).
- Co-director of the Center for Integrative Digital Health, School of Nursing, PolyU (2007 – 2010)
- Committee member of the Knowledge Management Research Center, Department of Industrial and Systems Engineering, PolyU (2005 – 2007)

### **Journal Editor and Reviewer**

1. Associate Editor of Journal Human Systems Management
2. Editorial Board Member of the International Journal of Knowledge Engineering and Data Mining
3. Editorial Board Member of International Journal of E-Healthcare
4. Editorial Board of Researchpedia Journal of Digital Economy
5. Reviewer of Expert Systems with Applications
6. Reviewer of Journal of Medical Internet Research
7. Reviewer of Industrial Management & Data Systems

### **Book Editor**

Editorial Advisory Board Member of the textbook of “Ephrem Eyob and Edem G. Tetteh Customer-Oriented Global Supply Chains, IGI Global Publisher, March, 2012.”

### **Conference organization**

- Committee member of the 12<sup>nd</sup> International Conference on Knowledge Discovery, Mar 8-11, 2024
- Program co-chair of 2023 International Conference on Artificial Intelligence and Blockchain Technology (AIBT2023), April 14 – 16, 2023
- Committee member of the 11<sup>th</sup> International Conference on Knowledge Discovery, Dec 28-30, 2022
- Program co-chair of 2021 International Conference on Artificial Intelligence and Blockchain Technology (AIBT2021), June 25 – 27, 2021
- Committee member of the 10<sup>th</sup> International Conference on Knowledge Discovery, Nov 27-29, 2021
- Track Chair of Social Media and Big Data Analytics, Symposium for Research, Scholarship, and Creativity, 12 Apr 2017
- Committee member of Symposium for Research, Scholarship, and Creativity, 12 Apr 201
- Committee member of Risk Management and Business Intelligence 2011-2016
- Committee member of the Intelligent Workshop on Collaboration and Intelligence in Blended Learning Week, Sep 3-4, 2012
- Co-Chair of the 2009 IAENG International Workshop on Internet Computing and Web Services of International MultiConference of Engineers and Computer Scientists, 14-16, March 2012
- Committee of 3rd Malaysian Joint Conference on Artificial Intelligence, 18-19 July, 2011
- Co-Chair of the 2009 IAENG International Workshop on Internet Computing and Web Services of International MultiConference of Engineers and Computer Scientists, 16-18 March, 2011
- Program Co-Chair of the 40<sup>th</sup> Annual Meeting of Decision Science Institute in Knowledge Management Track, Nov 14 – 17, 2009

- Program Co-chair of the 2009 International conference on Information and Knowledge Engineering of the WORLDCOMP'09 Congress conferences in computer science, computer engineering, and applied computing, July 14 – 17, 2009
- Co-Chair of the 2009 IAENG International Workshop on Internet Computing and Web Services of International MultiConference of Engineers and Computer Scientists, 18-20 March, 2009
- Program Committee of International Conference on Information Technology and Management, August, 2009
- Co-chair of the 2008 International conference on Information and Knowledge Engineering of the WORLDCOMP'08 Congress conferences in computer science, computer engineering, and applied computing, July 14 – 17, 2008
- Co-chair of IAENG International Conference on Internet Computing and Web Services of International MultiConference of Engineers and Computer Scientists, March 19-21, 2008
- Session Chair of the 38th Annual Meeting Decision Sciences Institute, Nov 17 – 20, 2007
- Industrial Track Chair of International Conference of Management Information Technology 2007
- Co-Chair (The 2007 IAENG International Workshop on Internet Computing and Web Services) of International MultiConference of Engineers and Computer Scientists, 2007
- Program Committee of Management International Conference, 2006 - 2007
- Reviewer and Programming Committee of International Association for Computer Information Systems Pacific Conference, 2005

#### **Keynote/Invited Speaker in Conference**

- “Virtual Entrepreneurship and Creating Digital Economy with AI in HKUCampusland Metaverse” 2024 International Conference on Knowledge Discovery (March 8-10) (Invited Speech) <http://www.ickd.org/speaker.html>
- “Using AI and Web6.0 for HKUCampusland Metaverse” 2022 International Conference on Knowledge Discovery (Dec 28 – Dec 30) (Invited Speech) <http://www.ickd.org/speaker.html>
- “Using AI and Web6.0 for 6G Intelligent Applications” 2021 International Conference on Knowledge Discovery (Dec 16 – Dec 18) (Invited Speech) <http://www.ickd.org/speaker.html>
- 2019 8<sup>th</sup> International Conference on Knowledge Discovery, Phuket, Thailand (Nov 17-19, 2019) <http://www.ickd.org/speaker.html>
- 2019 International Conference on Machine Learning and Intelligent System, Hualien, Taiwan (Nov 19-22, 2019) <http://www.machinelearningconf.org/InvitedSpeakers.html>
- “Current technology and future development in Big Data Analytic on ERM” Enterprise Risk Conference in HK and SG, May 2015 (Invited Speech)
- “Enhancing Business Value with Well-Defined Risk Appetite & Risk-Intelligent Culture”, Enterprise Risk Conference in HK and SG, May 2015 (Invited Discussion Panel)
- “Next Generation of electronic Patient Record”, International MultiConference of Engineers and Computer Scientists, 2008 (Invited Speech)
- “Ontology Engineering for Personalized Knowledge Management”, International MultiConference of Engineers and Computer Scientists, 2007 (Invited Speech)

#### **Press in Media**

- HKU Bullet, “Connecting through Campusland”, , Vol 2, No. 2, May, 2023
- Faculty of Science, “Metaverse in Education”, 1<sup>st</sup> Dec, 2022. <https://www.youtube.com/watch?v=DQUn8MBgnQY>
- MingPao “港大團隊研辨表情AI 偵虐兒偵拔喉偵面試表現”, 6<sup>th</sup> Nov, 2002
- The Junior Scientist Institution, “The STEAM Education: Mixed Reality in Metaverse Workshop”, 14<sup>th</sup> Nov, 2022.

- 商業電台雷霆881 與時並進, “港大首設全港第一個AI元宇宙校園, 打破網上教學界限回應 STEAM人才培育!”, November 5, 2022
- 信報財經新聞hkej.com, “港大元宇宙校園開放試用創先河”, 20<sup>th</sup> Oct, 2022.<https://startupbeat.hkej.com/?p=125883>
- Over 20 international media reported, “Marvion unveiling HKU CampusLand - a joint metaverse initiative with Marvel Digital AI and the University of Hong Kong”.
- Press in Risk Insights Challenge Competition (Jan 12, 2015)  
<http://latest.hkitnews.com/blog/?p=27098> (*BI solution on Enterprise Risk, Digital Risk, Credit Risk, and Estimation Risk*)
- Press in PCMarket (Sep 20 & Oct 4, 2011) on financial risk management education system and enterprise operational risk management.
- Press in PCMarket (Jan 18, 2011) to promote application of BI tools in enterprise
- Press in IT for Youth (Oct, 2006) to promote the study on IT subjects and the teaching and learning philosophy
- Press in Jiu Jik (Feb 15, 2005) and PC Market (Apr 6, 2005) magazine about the teaching methodology for customer relationship management course and issues in customer relationship management

## ACADEMIC PUBLICATION LISTS (Journal, Conference and Book chapter):

### Artificial Intelligence and Business/Medical Informatics (2006 – Present)

#### Journal Papers

1. Cheung, L., Wang, Y., Lau, S.M.A., and Chan, R.M.C. (2022). Using a Novel Clustered 3D-CNN Model for Improving Crop Future Price Prediction, **Knowledge-based System (impact factor 8.139)**, Vol 260, e110133 (Cited by 4). <https://doi.org/10.1016/j.knosys.2022.110133>
2. Adela SM Lau & Nidhal Bouazizi, "Big Data Analytics for International Market Expansion: Case Studies in ExporTech", International Journal of Knowledge Engineering, Vol. 5, No. 2, p.40-46, 2020. <https://doi.org/10.18178/ijke.2019.5.2.115>.
3. Noura Khreis, Adela S.M. Lau, Ahmed Al-jedai, Salma M. Al-Khani, and Ezdehar H. Alruwaili, An Evaluation of Clinical Decision Support and Use of Machine Learning to Reduce Alert Fatigue, International Journal of Computer and Communication Engineering, 8(1), p.32-39, 2019. <https://doi.org/10.17706/IJCCE.2019.8.1.32-39>.
4. Adela Lau, “Hospital-Based Nurses’ Perceptions of the Adoption of Web 2.0 Tools for Knowledge Sharing, Learning, Social Interaction and the Production of Collective Intelligence”, **Journal of Medical Internet Research (impact factor 7.077)**, Vol 13, No 4, e92, p.1-12, 2011 (*Cited by 116*). <https://doi.org/10.2196/jmir.1398>.
5. Adela Lau and S. Tse, “Development of the Ontology Using a Problem-Driven Approach: In the Context of Traditional Chinese medicine Diagnosis”, International Journal of Knowledge Engineering and Data Mining, Vol 1, p.37 – 49, 2010 (*Cited by 4*). <https://doi.org/10.1504/IJKEDM.2010.032579>.
6. Adela Lau, “Implementation of an onto-wiki toolkit using web services to improve the efficiency and effectiveness of medical ontology co-authoring and analysis “**Informatics for Health and Social Care (impact factor 3.082) – (Former journal name: Medical Informatics and the Internet in Medicine)**, Vol. 34, No. 1, p.73 - 80, 2009 (*Cited by 10*). <https://doi.org/10.1080/17538150902779543>.
7. E. Tsui, W.M. Wang, C.F. Cheung, and Adela S.M. Lau, “A Concept-Relationship Acquisition and Inference Approach for Hierarchical Taxonomy Construction from Tags”, **Information Processing & Management (impact factor 7.466)**, Vol. 46, Issue 1, p.44-57, 2010 (*Cited by 93*). <https://doi.org/10.1016/j.ipm.2009.05.009>.

8. Adela Lau, E.Tsui & WB Lee, "An Ontology-based Similarity Measurement for Problem-based Case Reasoning", **Expert systems and Application (impact factor 8.665)**, Vol. 36, Issue 3, Part II, p.6574-6579, 2009 (*Cited by 57*). <https://doi.org/10.1016/j.eswa.2008.07.033>.

#### Conference Papers

9. Hu, R., Cheung ,L, Li, J. Lau, A.S.M., & Chan, R. Using AI on the Ontology for Intelligent Big Data Visualization: A Case Study on Crop Future Price Prediction, SEDSI 2022 Annual Conference.
10. Adela SM Lau & Nidhal Bouazizi, " Using Big Data Analytics for Market Opportunities: A Case Study of Market Expansion Research", International Conference of Knowledge Discovery, 2019.
11. Adela SM Lau, "Future Development of Information Systems: Business Semantics Intelligence", Symposium for Research, Scholarship, and Creativity, Apr 12, 2017.
12. Adela.Lau, "Nursing Diagnosis Ontology using Problem-driven Approach", the 40<sup>th</sup> Annual Meeting of Decision Science Institute, (2009) (**Invited paper**).
13. Adela Lau, "What is Next Generation of E-patient Record? WORLDCOMP'08 Congress conferences in computer science, computer engineering, and applied computing (Knowledge Management in Healthcare Session), 2008.
14. Adela Lau, "Ontology and Data Mining for Patent Document Classification", The 38th Annual Meeting Decision Sciences Institute, 2007.
15. Adela Lau, "Ontology in Semantic Web for Knowledge Sharing", WORLDCOMP'07 Congress conferences in computer science, computer engineering, and applied computing, p. 42 – 46, 2007.
16. Adela Lau, E. Tsui & WB Lee, "Clustered Ontology-based Knowledge Representation of Cases", The 3rd Asia-Pacific International Conference on Knowledge Management, 2006.

#### Textbook Chapter

17. Adela S.M. Lau, Kristine Baker, Katherine Kempf, Katie Schwalm, Sijuade Oke, Eric Tsui, Liege Cheung, Marie-Claire Slama, and Min Su, "Can AI Unravel Consumers' Preferences on Health Care Services?:A Case Study of Zocdoc for Consumers' Health Care Services Analysis", Adaptive HMIS, 2019.
18. Adela Lau, "Next Generation of E-patient Record: Moving from Information-based into Knowledge-based", Engineering the Computer Science and IT, 2009.

### **E-learning and Knowledge Management (2007 – 2012)**

#### Journal Paper

19. H. Lee, H. Leung, Adela Lau, K.P. Mark, "Evaluation Studies of 2D and Glasses-Free 3D Contents for Education - Case Study of Automultiscopic Display Used for School Teaching in Hong Kong", Advances in Education, p.77-81, 2012. <https://doi.org/10.12677/AE.2012.24016>.
20. Adela Lau & E. Tsui, "Knowledge Management Perspective on E-learning Effectiveness", **Knowledge-based Systems (impact factor 8.139)**, Vol 22, p. 324-5, 2009 (*Cited by 140*). <https://doi.org/10.1016/j.knosys.2009.02.014>.

#### Conference

21. T.B.Y. Liew, E. Tsui, P.S.W. Fong and Adela Lau, "Rapid Authoring Platform for Instructional Design of Scenarios (RAPIDS)", 12th IEEE International Conference on Advanced Learning Technologies, p.473-475, 2012
22. T.B.Y. Liew, E. Tsui, P.S.W. Fong and Adela Lau, "Learning Knowledge Management concepts via the use of a Scenario Building Tool on an E-Learning platform", International Conference on Hybrid Learning, 25-27<sup>th</sup> August, 2009, Macau, to appear in **Lecture Notes in Computer Science, Springer-Verlag**.

#### Textbook Chapter

23. Adela Lau & E. Tsui, "Application of Web2.0 Technology for Clinical Training", Social Web Evolution: Integrating Semantic Applications and Web2.0 Technologies, Information Science

Reference (an imprint of IGI Global: ISBN 978-1-60566-272-5 (hardcover) & ISBN 978-1-60566-273-2 (ebook)), Hershey, New York, U.S.A., p.132 – 137, 2009 (*Cited by 1*).

24. E. Tsui, C. Yu, Adela Lau, “A two-tier approach to elicit enterprise portal user requirements”, Encyclopaedia of Portal Technology and Application, ISBN-13: 978-1591409892, Information Science Reference, 2007.

### **E-business Strategies & Applications (2000 – 2007)**

#### Journal

25. Adela S.M. Lau & V.W.S. Kwok, “How Government Strategies Influence E-commerce Adoption by SME”, International Journal of Electronic Government, (**impact factor 1.56**), 4(1), p. 20-42, 2007 (*Cited by 22*). <https://doi.org/10.1504/EG.2007.012177>
26. Adela Lau, “Strategies to Encourage the Adoption of G2C E-government Services in Hong Kong”, International Journal of Electronic Government (**impact factor 1.56**), Vol. 1, No. 3, pp273-292, 2004 (*Cited by 16*). <http://doi.org/10.1504/EG.2004.005552>.
27. Adela Lau, “A Study on Direction of Development of Business-to-Customer M-commerce”, International Journal of Mobile Communications (**impact factor 1.521**), Vol. 1, p. 167-179, 2003 (*Cited by 27*). <https://doi.org/10.1504/IJMC.2003.002464>.
28. Adela Lau, “Intention of Internet search by customers on E-Shopping”, Annual Journal of Institute of Industrial Engineers, Vol. 14, p. 28 –33, 2002.
29. Adela Lau & et. al., "Applying multi agent technology to supply chain management", Journal of Electronic Commerce Research (**impact factor 4.32**), Vol. 1, No. 4, p.119–132, 2000 (*Cited by 20*).

#### Conference

1. Adela Lau & R. Cheung, “A B2B Integration Framework for Web-based Applications, International Conference of Management Information Technology, 2007.
2. Adela Lau, “To transform the customer relationship Management to be Knowledgeable: A Knowledge Re-engineering Framework”, International Association for Computer Information Systems Pacific Conference, 2005.
3. Adela Lau, “A study of Customer Relationship Management in Small and Medium Enterprises”, Southwest Decision Sciences Institute (SWDSI) 2003.
4. Adela Lau & P. Li, “A Framework to Encourage SMEs Taking up E-commerce in Hong Kong: Collaboration between Government, Trade Association and Service Providers”, International Conference of Electronic Commerce, Vol. 4, 2002.
5. Adela Lau & R. Chu, “A Study on the Constructs for Citizen Utilization of E-Government Services in Hong Kong”, International Conference of Electronic Commerce, Vol. 4, 2002.
6. Adela Lau & P. Li, “The Challenges to Government of Encouraging the Private Sector (SME) on adopting E-commerce”, The International Information Management Association (IIMA) Annual Conferences, 2002.
7. Adela, S.M. Lau, J. Yen & J.X. Yu, “How XML Supports Financial Information Integration”, International Conference on Supply Chan Management and Information Systems in the Internet Age, 2001.
8. Adela, S.M. Lau, W.Y. Lee & J. Yen, “Cross-Market Monitoring System: A Knowledge Management Approach”, International Conference on Supply Chan Management and Information Systems in the Internet Age, 2001.
9. Adela S.M. Lau & Walter W.C. Chung, “The Market Viability and Future Development of Electronic Publishing”, International Conference on Supply Chan Management and Information Systems in the Internet Age, 2001.

### **E-Finance Strategy and Applications (1998 – 2002)**

#### Journal

10. Adela Lau, J. Yen, W.Y. Lee & P. Yuen, “An Integrated Trading Environment: To improving Market Transparency and Efficiency”, Review of Pacific Basin Financial Markets and Policies, (**impact factor 0.9**), Vol. 5., No. 4, p.533 – 550, 2002. <https://doi.org/10.1142/S0219091502000870>.
11. Adela Lau, “Strategies to Motivate Brokers Adopting online Trading in Hong Kong Financial Market”, Review of Pacific Basin Financial Markets and Policies, (**impact factor 0.9**), Vol. 5, No. 4, p.533 – 549, 2002(*Cited by 14*). <https://doi.org/10.1142/S0219091502000870>.
12. Adela Lau, J. Yen & P.Y.K. Chau, "Adoption of On-line Trading in Hong Kong Financial Market", Journal of Electronic Commerce Research (**impact factor 5.27**), Vol 2., p.58-65, Vol. 2, Number 2, 2001 (*Cited by 108*).

#### Conference

13. Adela S.M. Lau, J. Yen & P.Y.K. Chau, "Adoption of On-line Trading of Brokers", International Conference of Electronic Commerce, 2000.
14. J Yen, C Yang, Adela S.M. Lau, A.K.L. Chung, K. Hwang, “Transparency and efficiency in information transmission and financial digital library”, The First Asian Financial Digital Library WorkShop, Vol 1, p.195-206, 1998 (*Cited by 3*).

## **PROFESSIONAL LEAERSHIP AND CONSULTANCY SERVICES**

### **Professional Leadership**

- Advisor of International Association of Business Management Simulation 2023 - Present
- Committee member in the technology panel of the TSSSU@HKU (2020 – present)
- Advisory Board Member of Asia Financial Risk Think Tank in Hong Kong (2015 – present)
- Professional advisor of the Academy of Professional Certification to provide enterprise risk management and technology consultation. (2020 – present)
- Advisor and Judge of the Best Enterprise Risk Management (ERM) Awards, 2015
- Judge of CLP Power Innovation Award in Quality Control Circle Convention, 2007
- Industrial Relation Chair of Institute of Systems Management 2005 - 2006

### **Professional Membership**

- Member of NANDA-International (Nursing Diagnostic Terminology) 2007 - Present
- Member of Decision Sciences Institute 2007 - Present
- Member of Advisor Committee of Hong Kong Information Technology Advisory Committee at Office of Sin Chung Kai – Legislative Councilor (IT) 2005 – 2007
- Secretary of ACM for Computing Machinery (Hong Kong Chapter) 2005 - 2007
- Member of Area of Strategic Development in the School of Nursing in PolyU 2005 - 2007
- Member of Knowledge Management Center in PolyU 2007 - 2009
- Member of IEEE and IEEE Computer Society 2005 - 2007
- Member of Southwest Decision Sciences Institute (SWDSI) 2005 - 2007
- Member of International Association for Computer Information Systems (IACIS) 2005 - 2007

### **Consultancy Projects and UGC Funded Projects**

<b>Dates</b>	<b>Projects Description</b>
Nov 2023 - Present	Development of ESG Framework and Standard: Using AI, Social Media and Big Data for a NGO Company
Oct 2023 – Present	Development of AI Chatbot for Customer Enquiry in Metaverse for a Medical Care Company
Sep 2023 – Present	Development Talent Analysis Model: Using AI, Video Analytics, Text Analytics and Speech and Audio Analytics for an Education Organization
Aug 2023 – Present	Using AI and Network Analysis for Sports Strategies Analysis and Recommendation, HKSAR
Jul 2023 – Present	Using AI Chatbot and Mixed Reality for Integrated STEAM Education in Metaverse for a



	School Organization
Aug 2022 – May 2023	A Pilot Study of Using AI Methods to Implement a Chatbox, Emotion Analyzer, and Augmented/Mixed Reality Learning for an AI company
May 2022 – Dec 2022	A Pilot Study of Using AI for Social Media Analysis for Government Policy Analysis for a Non-profit Company
Jun 2021 to Aug 2021	A Feasibility Study in Developing an Antique Classification Application Prototype for an AI Company
Mar 2021 to May 2021	A Feasibility Study in Developing an Antique Identification Application Prototype for an AI Company
Oct 2018 – Jun 2020	Orbit E-learning content implementation for Online Health Informatics Courses for Orbit Ltd
Oct 2018 to Sep 2019	Social Media Marketing Strategies for Charity Donation, Ford Motor Fund
July 2016 to Dec 2017	Intelligent OCR for patient claims using big data analytics and Virtual Intelligent Agent for AIA HK
June 2014 to Jun 2016	Tri-Model Learning: Improving students' learning experience in interdisciplinary studies on risk management and business intelligence - From the perspectives of the industries, students and teachers Accelerating students' learning experience through industrial collaboration, competition and 3-way mentoring (funded research project)
July 2011 to June 2014	Using scenario analysis, reflective and social communication approaches for teaching debating skills to improve students' critical thinking (funded research project)
July 2010 to June 2012	Evaluation of Nursing Ontology (NANAD applied-research project - international)
Jan 2010 to June 2010	Provision for Consultancy Services on Document Management & Taxonomy Design for Securities and Futures Commission (SFC)
Oct 2009 to June 2010	Using an Ontology-based Bayesian Network to Map, Compare and Unify the Taxonomy Rules for Improving the Effectiveness of Ontology Unification via Wiki Platform: In the Context of Chinese Medicine Ontology Building (funded research project)
Sep 2009 to Jun 2010	An Evaluation on the Clinical Practices of Nurses for Quality Health Medical Services Limited
July 2009 to Dec 2009	Solution Architecture Design and Development for Cathay Pacific Airways Limited
Jun 2008 to May 2009	Develop an instrument to assess a school health program from the perspectives of school environment, top management and parental support, and students' lifestyle (funded research project)
Sep 2007 to Aug 2009	Mobile Integrated Clinical System for Jockey Club
Sep 2007 Aug 2009	Integrated Clinical System for SPORTS Injury for Jockey Club
June 2007 to June 2010	Enhancing personal knowledge management and peer-to-peer interactions on the WebCT Vista environment (UGC funded research project)
Mar 2007 to May 2009	Development of a Hybrid Knowledge Navigation System Utilizing Top-down and Bottom-up Tagging Mechanisms (funded research project)
May 2007 to Oct 2007	Critical Processes Identification for Knowledge-enabled Enterprise Resources Planning System for TopForm Limited
Feb 2007 to Dec 2008	Provision for Consultancy Services on Knowledge Management Study for Environmental Protection Department, HKSAR
July 2006 to Oct 2007	Knowledge Capture and Representation of a Case Using Clustered Ontology-based Knowledge Map for Enterprise Management (funded research project)
Feb 2006 to Jan 2007	Provision for Consultancy Services for Strategic Planning, Knowledge Audit and Knowledge Management Strategies to the Leo Paper Group
May 2006 to Nov 2006	Knowledge Management Culture Survey and Strategies for Housing Authority, HKSAR
Nov 2005 to Nov 2006	Knowledge Management Portal Requirement Study for Census and Statistical Department, HKSAR
Feb 2006 to Aug 2006	Customer Survey of Market Penetration Rate, its Adoption, and Customer Expectation of the Enterprise Software Products, Microsoft HK Ltd
July 2006 to Sept 2006	A Conceptual Framework for Knowledge-enabled Customer Relationship Management: A Case Study in Microsoft Products, Microsoft HK Ltd
April 2005 to Mar 2006	Data mining: knowledge discovery in our experience with SARS patients (funded research project)
April 2005 to Mar 2006	Implementation of an Injury Surveillance System for a Safe Community Set-up (funded research project)
April 2005 to Mar 2006	Adoption Studies of Small Business Server 2003: On-site Usage Survey and Advisory service for Small Business Server 2003 customers, Microsoft HK Ltd
From Nov 2004 to Apr 2005	Study the conducive environment in different countries, which includes the telecommunication infrastructure, promotion, manpower, services and legal issues, E-government Funded Project
From Oct 2000 to Jan	Financial Digital Library, Hong Kong EDGAR Project (ELFFS), and Financial Computing

2001	Project (endorsed by the Hong Kong Stock Exchange (SEHK) and Securities and Futures Commission (SFC)) – Design the Electronic Filing System (called EDGAR or called ELFFS later), Department of Systems Engineering and Engineering Management, CUHK (funded research project)
From May 1998 to Feb 1999	Financial Digital Library in Cluster Environment – Design a multi-agent based Financial Analysis System in cluster environment, Department of Electrical and Electronic Engineering, HKU (funded research project)
From June 1997 to Aug 1997	Business Process Re-engineering for Department of Curriculum Studies – Feasibility Studies on engineering the administration work processes in Department of Curriculum Studies using Lotus Note, Department of Curriculum Studies, HKU (funded research project)
From Oct 1998 to Dec 1998	Design and Implement a Software for Primary School (Chinese Dictionary), Department of Curriculum Studies, HKU (funded research project)
From Sept 1997 to Aug 1998	Computer Vision in depth recognition (UGC funded research project), Department of Electronic Engineering, CityU (funded research project)

### Applied Research Capstone Projects

Jun 2022 – Jun 2023	Using Statistics and AI for Business Analysis for Banking and Insurance, ESG Analytics with Financial Investment/Risk Compliance, Online Interview, Smart Retail, Healthcare – COVID19, and Online Education.
Jun 2022 – Dec 2022	A Comprehensive Analysis on Government COVID-19 Policy's Effectiveness with Public's Sentiment
Jun 2022 – Dec 2022	Invoice Information Extraction and Further Text Analysis
Mar 2021 to May 2022	Use of Artificial Intelligence to Improve Patient Safety in Hospital Setting
Jun 2022 – Dec 2022	Financial Big Data Analytics: Financial News Ontology, Video, Sentiment Analysis and Candlesticks Patterns for Predicting Stock Price Trend
Sep 2021 to May 2022	<ul style="list-style-type: none"> <li>• Use IoT sensor data to predict the disorder of factory equipment and alert in advance</li> <li>• Intelligent Inventory and Stock Take</li> </ul>
Sep 2021 to May 2022	<ul style="list-style-type: none"> <li>• Using AI and FinTech analytics to discover grains commodity hedge fund opportunities</li> </ul>
Sep 2021 to May 2022	<ul style="list-style-type: none"> <li>• Using facial expression and social media/dialog/voice data for Early Detection of Dementia</li> <li>• Business Opportunities: AI Healthcare Products and Services Investment</li> </ul>
Sep 2021 to May 2022	<ul style="list-style-type: none"> <li>• Facial expression/body gesture for AI in behavioral intelligence</li> <li>• Using AI for job advertisement analytics to discover behavioral intelligence spectrum</li> <li>• Expert network analysis using LinkedIn</li> </ul>
Sep 2021 to May 2022	<ul style="list-style-type: none"> <li>• Using AI for gaming analytics to discover community interactions and interests</li> </ul>
Sep 2021 to May 2022	<ul style="list-style-type: none"> <li>• Using AI to determine the donors' behaviors in social media for marketing planning</li> </ul>
Sep 2021 to May 2022	<ul style="list-style-type: none"> <li>• Using AI for facial expression and body gesture to discover mental health risks</li> <li>• Using AI for social media analytics to discover mental health risks</li> </ul>
Sep 2021 to May 2022	<ul style="list-style-type: none"> <li>• Using AI on social media analytics to implement a fear index for COVID spreading prediction</li> <li>• Using social media to determine the general barriers and concerns of using AI in medicine</li> </ul>
Sep 2019 to July 2020	<ul style="list-style-type: none"> <li>• Using Web 5.0 and Artificial Intelligence for Virtual WorkSpace and Business Globalization</li> <li>• A Market Expansion Analysis Using Clustered-Based Optimization Model on Import and Export Data and Social Media</li> </ul>
Sep 2019 to July 2020	<ul style="list-style-type: none"> <li>• Market Insights Analytics for HealthTech Business Expansion in US, Europe, UK, Germany, Swiss and Asia.</li> <li>• Using Big Data Analytics for HealthTech Global Supply Chain Analysis and Challenges Identification over: US, Europe, UK, Germany, Swiss and China</li> </ul>
Sep 2019 to July 2020	<ul style="list-style-type: none"> <li>• Optimizing a Public Equities Portfolio vis a vis return and ESG Risk</li> </ul>
Sep 2019 to July 2020	<ul style="list-style-type: none"> <li>• A Market Research of E-business Online Learning by using Big Data Analytics and Knowledge Management Approach</li> </ul>
Sep 2018 to July 2020	<ul style="list-style-type: none"> <li>• Using Social Media Analytics to Understand Instagram Followers' Behaviors for Donation Marketing</li> </ul>
Oct 2018 to Dec 2018	<ul style="list-style-type: none"> <li>• Big Data Analytics for International Market Expansion: A Consultancy Services</li> </ul>
Jan 2017 to Dec 2017	<ul style="list-style-type: none"> <li>• Using Social Media to analyze Healthcare Services Preference in Asia Pacific and USA</li> </ul>
Aug 2016 to Dec 2017	Big Data Analytics in E-learning and Knowledge Management

	<ul style="list-style-type: none"> <li>• Online courses development in Big Data Analytics and Method and Tools in Knowledge Management System</li> <li>• Virtual Internship</li> <li>• International Capstone Project</li> <li>• Manufacturing 4.0 in MOOD platform</li> </ul>
Sep 2014 to Dec 2017	<p>Asian Financial Risk Think Tank</p> <ul style="list-style-type: none"> <li>• Risk Impacts of Shanghai HK connect to Hong Kong Financial Market</li> <li>• A Comparison on the A-H pair trades before and after Shanghai HK connect</li> <li>• Financial Services/Products Development Framework and Taxonomy</li> </ul>
Sep 2012 – Jun 2016	<p>Selected Risk Management, Data Analytics, Social Media and Big Data Analytics Projects in HKUST</p> <ul style="list-style-type: none"> <li>• A predictive model to forecast the turndown of the US hotel business (With Wing Lung Bank, USA), 2015-2016.</li> <li>• Analysis of the correlation of loan usage and performance of a bank economy in US (With Wing Lung Bank, USA), 2015-2016.</li> <li>• A development of lending optimization model for credit risk management in Indonesian Bank (With Brainchild Ltd), 2015-2016.</li> <li>• A study of the correlation between the search topics and frequencies in search engine and the discussion forums for stock market (With K-Matrix and Asian Financial Risk Think Tank), 2015-2016.</li> <li>• Discovery on the correlation of product mix and ordering with open data and predicting the optimal product mix and ordering plan over cloud platform (With Right Station Ltd), 2015-2016.</li> <li>• A study of customer shopping behavior using Wifi locator in shopping center (With CLiX International Ltd), 2015-2016.</li> <li>• A design of intelligence virtual insurance agent: product recommendation model (with AIA Group), 2015-2016.</li> <li>• A design of social intelligent marketing system: using social media and data mining for new product analysis (with ParknShop), 2015-2016.</li> <li>• A design of business risk monitoring system using social media analytics (With TownGas), 2015-2016.</li> <li>• Loan market demand analysis: using social media and macro-economic factors (With Wing Lung Bank), 2014-2015.</li> <li>• A study on the correlation between the market factors and social media discussion to the market price fluctuation (With K-Matrix), 2014-2015</li> <li>• Using data mining for predictive analysis on hospital readmissions to reduce the operational risks (With Hospital Authority), 2014-2015.</li> <li>• Using data mining for predictive analysis on Flu Influence (With Hospital Authority), 2014-2015.</li> <li>• A development of the internal auditing computer-aided tool for assessing social media risks (With Wing On CPA Ltd), 2014-2015.</li> <li>• Accounting Audit Risk Detection System Using Business Intelligence and Social Media (With Wing On CPA Ltd), 2013-2014.</li> <li>• Customer Insight Analytics Using Social Media Data (With Dairy Farm), 2013-2014.</li> <li>• A Design of Scenario-based Risk Assessment System for Construction Occupational and Safety Risk Management (With Hong Kong Quality Assurance Agency), 2013-2014.</li> <li>• A development of Risk Assessment Tools of the IT Migration from Outsource to Inhouse Development (With AIA Group), 2013-2014.</li> <li>• Benchmark Customer Profiling for Costume Industry using Business Analytics (With Data Trade Limited), 2012-2013.</li> <li>• Implementation a rule engine for a Scenario-based Financial Risk Management Education System (With Marvel digital Limited), 2012-2013.</li> </ul>
Sep 2012 to Dec 2017	<p>Financial Risk and Big Data Analytics</p> <ul style="list-style-type: none"> <li>• Scenario-based Financial Risk Learning System</li> <li>• Social Media Analysis on Credit Risk, Financial Risk and Accounting Risk</li> <li>• Big Data Analytics on Healthcare</li> </ul>

## Donation

<b>Dates</b>	<b>Donation Description</b>
Sep 2023	<i>Cash Donation</i> AI in Metaverse Challenges and Competition Donation
Sep 2022	<i>Software Donation</i> HKUCampusland
Sep 2021	<i>Cash Donation</i> AI in Robotic Challenges and Competition Donation
Jan 2009	<i>Software Donation from SPSS HK Limited</i> Donation of worth \$10,000,000 SPSS Clementine Data, Text & Web Mining software licenses for Health Informatics & intelligence Research Use
Nov 2004	<i>Software and Scholarship Donation from Microsoft Limited</i> Donated Microsoft CRM software licenses, scholarships and Microsoft CRM training manual
Nov 2004	<i>Software Donation from Microsoft Limited</i> Donated Microsoft Small Business Server 2003 software license

## **ACADEMIC AND TEACHING LEADERSHIPS**

### **University and Program Leadership**

#### University Committee and Program Leadership

1. Deputy Director of MSc in Data Science (2021-2023)
2. Program coordinator of BSc in Applied AI (2020 – 2021)
3. Program Champion in Data Analytics, BSc in Business Administration, School of Business, Madonna University (2018 – 2020)
4. Committee member of Undergraduate and Graduate Programs, School of Business, Madonna University (2018 – 2020)
5. University committee member, Institutional Review Board, Center for Research, Madonna University (2019 – 2020)
6. University committee member of Information Technology Advisory Board, Madonna University (2019 – 2020)
7. University Committee member of Study Aboard, Madonna University, Madonna University (2019 – 2020)
8. University committee member of Civil Engagement and Service-Learning Advisory Board, Madonna University (2018 – 2020)
9. UG Coordinator of BSc in Risk Management and Business Intelligence of the Interdisciplinary Program (Executive Program Director – oversees the program, supervise the program office staff to manage and promote the program, and coordinate with the 3 departments' colleagues to run the interdisciplinary program), HKUST (2010 – 2016)
10. Chair of Program Quality Assurance, Interdisciplinary Programs, HKUST (2010 – 2016)
11. UG Working Committee member in Quality Assurance and Evaluation, the Interdisciplinary Programs Office of HKUST (2014 – Present)
12. Program committee of MSc in Health Informatics at School of Nursing of PolyU (2008 – 2010)
13. Program members of MSc in Knowledge Management, BSc in Enterprise Engineering and Electronic Business Program BEng in E-business and Management, BSc in Industrial and System Engineering of the Department of Industrial and Systems Engineering of PolyU (2006 – 2007)

### **Student Innovation Leadership**

- Organizer of the AI and Data Science in Virtual Entrepreneurship in 2023-2024
- Organizer of the China Mainland, Hong Kong and Macao Digital Economy Innovation and Entrepreneurship Competition 2024
- Organizer of the Cross-Strait Hong Kong and Macao Enterprise Business Case Analysis Competition 2024

- Organizer of the Hong Kong MBS Business Management Simulation Competition 2024  
Organizer of the Cross-Strait Hong Kong and Macao Accounting and Business Case Competition 2024
- Organizer of the Cross-Strait Hong Kong and Macao Logistic and Supply Chain Management Case Competition 2024
- Organizer of the AI in Metaverse Challenge Competition in 2022-2023
- Organizer of the AI in Robotics Vision and Technology Automation Challenge Competition in 2021-2022
- Organizer of Qlik Big Data Analytics Business Challenge Competition 2019 and 2020
- Organizer of Fish and Loaves Innovative Awards with Ford Community Corps Grant in 2018
- Organizer of ExporTech Awards for Student Consultancy Services in 2018
- Organizer and Judge of the Risk Insights Challenge Competition in 2015 with KPMG and Qlik (<http://latest.hkitnews.com/blog/?p=27098>)
- Organizer and Judge of the 2015-2016 RMBI Program Capstone Project Competition

### **Industrial and Student Mentorship Leadership**

#### **Mentorship program**

- Organize and work with the corporate' CEO, directors and managers for the mentorship program of RMBI program – invited 120 mentors from IT, bank, investment firm, healthcare, government and manufacture for RMBI students in 2010/11, 2011/12, 2012/13, 2013/14, 2014/15, 2015/16 academic year

#### **Internship & Capstone Project Collaboration**

- Initiate and work with the corporate to have the industrial research collaboration
  - 3 companies/authority (Lifewood, Marvel, Quality Healthcare) to have research collaboration in 11/12 academic year
  - 6 companies/authority (Dairy Firm, WingOn, Brainchild, Marvel, DataTrade, & HKQAA,) in 12/13 academic year
  - 7 companies (Hospital Authority, Wing Lung Bank, AIAPT, Brainchild, K-Matrix, Wing On, HKQAA)
  - 6 companies (Hospital Authority, Wing Lung Bank, Brainchild, K-Matrix, Wing On)
- Students internship program (Marvel, Lifewood, Credit Sussie, AIA Insurance, Bank of China, Chappuis Halder & Cie, TGL Group, Deloitte, KPMG, Velocity Solutions)

#### **BI Workshops and RMBI Symposium Organization**

- Invite corporate CEO & directors and government leader as speaker in the Symposium
  - 2011
    - Ms Alexa Lam, Deputy Chief Executive Officer and Executive Director, Policy, Securities and Futures Commission
    - Dr Paul Tsang, Managing Director, Head of Asia Market Risk Department, Morgan Stanley
    - Dr Wing Nam Wong, Senior Health Informatician, Hong Kong Hospital Authority
  - 2012
    - Mr Eric Cheung Po Chung, Deputy Director (Business Marketing & Development), CLP Power Hong Kong Limited
    - Mr King Leung, Managing Director, Datatrade Limited
    - Mr Dwight Paul Lam, Managing Director of BrainChild Inc.
    - Mr Yuen Siu Hong, Daniel, Research Director, Gartner Inc
    - Dr Erwin Siu Hung Lau, Consulting Technical Solution Manager, IBM China/Hong Kong Ltd
  - 2013
    - Mr. David K.T. Cheung, Senior Vice President, Credit Management Department, Wing Lung Bank Limited
    - Mr. Vincent Lam, CFO, VMS Investment Group.
    - Mr. Coleman Tse, General Manager, Construction Business, Hong Kong Quality Assurance Agency.

- Dr. Chun Por Wong, JP, Chief of Service of Integrated Medical Services, Consultant and Head, Department of Geriatrics, Ruttonjee and Tang Shiu Kin Hospitals
- 2014
- Mr Luke Ma, Vice President, Information Risk, J.P. Morgan
  - John Tan, CRO of Global Markets, StateStreet
  - Annie Li, Vice President, Credit Risk Management, BNY Mellon
  - Dominic Wu, Managing Director and Senior Risk Manager, Asia Pacific Risk Management and Compliance, BNY Mellon
  - James P. Pagano, Asia Pacific Treasury Manager, BNY Mellon
  - Rogers Chan, Risk Manager, Securities and Futures Commission of Hong Kong
  - Mr Jacky Leung, Compliance Controller, Wholesale Banking, Asia Pacific, Natixis
  - Mr Vincent Lam, Chief Financial Controller, Hedge Fund and Private Equity Risk Management, VMS Investment Group
  - Mr Kenneth Cheung, Associate Director, Wealth Management & Protection, AIA International Limited
  - Mr Marcus Wong, Head of Derivatives Clearing Services, TREATS & Utilities Technology, APAC, HSBC
  - Mr Anthony Cheung, Head of the Clinical Systems Section of the Corporate Development & Information System division, Hospital Authority
  - Mr Louis Leung, President, Wing On CPA & Associates and Wing On Professional Group
  - Mr King Leung, CEO, CLiX Limited & /DataTrade Limited
  - Mr Raymond Chu, Executive Director, BrainChild Inc.
  - Mr Kenneth Law, Manager, Internal Consultancy division, DHL Express
  - Mr Eric Lui, Chief IT Strategy & Enterprise Architecture Manager, MTR Corporation
  - Mr Sammy Wan, Manager of Quality, Safety and Environment of ATAL
  - Mr Kin So, Executive Officer, HKSAR
- Organize the logistic and guest invitation of the symposium
  - Organize BI workshops for students
    - Workshop on SPSS Business Analytics, Feb 2013
    - Workshop on QlikView for Business Reporting and Analysis, Feb 2014
    - Workshop on Qlik Sense for Analysis & Visualization, Feb 2015 (collaboration with QFIN)
    - Case Studies on the using the Qlike Sense to E-commerce Intelligence, Mar 2015
    - Workshop on Qlik Sense for R+Data Reporting, Mar 2015
    - Case Studies on QlikView for Business Intelligence, Mar 2015

### **Curriculum Development Leadership**

#### Bachelors in Applied AI (2020-2021)

1. APAI3010 Image Processing and Computer Vision
2. APAI4011 Natural Language Processing
3. APAI4099 Special topics of Applied AI
4. APAI3799 Directed Studies in Applied AI
5. APAI4798 Applied AI Project
6. APAI4766 Applied AI Internship

#### Bachelors in Business Administration (Data Analytics Concentration) (2018-2019)

1. QS 2500 Principle of Data Analytics
2. QS 3120 Data Mining and Business intelligence
3. QS 3220 Prescriptive Analytics for Managerial decisions
4. QS 4150 Social Media Analytics and Web Mining
5. QS 4240 Big Data Analytics and Visualization

#### BSc in Risk Management and Business Intelligence (2010 –2012)

1. RMBI 341 Business Intelligence Strategies and Applications
2. RMBI 300A Integration Business Intelligence into Risk Management

3. RMBI 4000B Environmental Risk Management for Corporate
4. RMBI 4200 Design of Business Intelligence Solutions
5. RMBI 1010 Risk Management in Society
6. RMBI 1020 Business Intelligence in Contemporary Society

BSc in Nursing and MSc in Health Informatics of PolyU (2008 - 2009)

1. Advanced Topics in Knowledge Management in Healthcare

BSc in Enterprise Engineering with Management Program at Department of Industrial and Systems Engineering of PolyU (2006 - 2007)

1. ISE375 Enterprise System Modeling and Design
2. ISE456 Managing Information Systems
3. ISE457 Business Process Management
4. ISE547 Customer Relationships Management

**Teaching Area**

Artificial Intelligence, Neural Network, Big Data Analytics, Computer Vision, Natural Language Processing, Social Media Analytics, Data Science, Data Mining, Data Analytics, Nursing Informatics, Business Intelligence, Financial Engineering, Risk Management, Knowledge Management, Knowledge Portal, E-commerce/E-business, Intelligent Marketing, Supply Chain/Logistic Management, Information Systems and Technology, Enterprise System and Management, Customer Relationship Management, E-patient Records, Health Services, Discrete Mathematics, Data Structure and Computing, Programming, Database Management, Telecommunication, Human Computer Interaction.

**Teaching Subjects Lists**

MSc in Data Science, MSc in Artificial Intelligence, MSc in Statistics, BSc in Applied AI, BSc in Statistics, BSc in Decision Science (Department of Statistics and Actuarial Science, HKU)

- STAT1005 Foundations of Data Science
- STAT1015 Introduction to Data Science
- STAT2604 Introduction to Python Programming and Elementary Data Analysis
- STAT 3799 Directed studies in statistics
- STAT4011 Natural language processing
- STAT 7008A/STAT7008B Introduction to Data Science Programming
- ARIN7102 Applied data mining and text analytics
- STAT 8021 Big Data Analytics
- STAT 8306 Statistical Methods for Network Analysis
- STAT 8307 Natural Language Processing and Text Analysis
- APAI 4766 Applied AI Internship
- STAT 4798 Statistics and actuarial science project
- STAT 8002 STAT Project
- DASC 7600 Data Science Project
- APAI 7600 Applied AI Project

MSc in Criminal and Justice, MSc in Business Administration (MBA), MSc in Supply Chain Management, BSc in Nursing and Informatics, BSc in Business Administration (School of Business and School of Nursing, Madonna University, USA)

- MGT 2400 Introduction to Management Information Systems
- MIS 2390 Emerging Trends in Computer Technology
- MIS 2500 Principle of Data Analytics

- MIS 3470 Health Care Data Analytics
- MIS 3350 Health-Care Informatics
- MIS 5230 Health Care Informatics/Health Care Informatics Systems Analysis & Design
- MIS 5580 Management Information Systems/Technology Management
- HSA 6050 Marketing for Improved Health Service Delivery
- BR 5210 Quantitative Methods for Business Research
- MIS 5200 Essentials of Research
- MIS 6430 Managerial Research Design
- MIS 6840 Project Research Study
- MBA 6950 MBA Capstone

BSc in Risk Management and Business Intelligence Program (Interdisciplinary Program Office, HKUST)

- UROP 1011 Undergraduate Research Study
- RMBI 1010 Risk Management in Society
- RMBI 1020 Business Intelligence in Contemporary Society
- RMBI 300A Integration Business Intelligence into Risk Management
- RMBI 4410 Business Intelligence Strategies and Applications
- RMBI 4420 Design of Business Intelligence Solutions
- RMBI 4000B Environmental Risk Management for Corporate
- RMBI 4980 Risk Management and Business Intelligence Capstone Project I
- RMBI 4990 Risk Management and Business Intelligence Capstone Project II

Doctorate in Nursing, MPhil in Nursing, MSc in Nursing Informatics (School of Nursing, PolyU)

- SN xxxx Professional Development of Health Informatics
- SN xxxx Leadership Roles and Management Functions in Healthcare
- SN xxxx Knowledge management in clinical applications
- XN xxxx Final year project supervisor of BSc in Nursing
- SN6802 Guided Study of Data Mining
- SN606 Information Technology in Healthcare
- Mphil Co- supervisors in Data Mining on Infection Control with H5N1 clinical data (SARS), and SARS Triage Information System in HA and ICD-9 Standard for Clinical Ontology

Doctorate in Engineering, MSc in Knowledge Management, MSc in Supply Chain Management, BSc in Enterprise/Manufacturing and Business Engineering, BSc in E-business and Logistics Management (Department of Industrial and Systems Engineering, PolyU)

- COMP xxx Introduction to Computing
- ISE xxx E-business for Engineers
- ISE xxx Introduction to Enterprise Computing
- ISE xxx Industrial Information System
- ISE xxx Business Process Engineering
- ISE xxx Software and Data Quality
- ISE xxx Enterprise Knowledge Portal
- ISE xxx Introduction to Enterprise Systems
- ISE xxx Technology and Applications for E-business
- ISE xxx Logistics Information Systems
- ISE xxx Engineering Enterprise Portal
- ISE xxx Electronic Customer relationship Management
- ISE 575 Guided Study of Financial Decision Making
- ISE xxx FYP Project Supervisor



- ISE xxx Doctorate Project Supervisor

Mphil in Computing, MSc in E-commerce, BSc in Computing (Department of Computing, PolyU)

- Customer Relationship Management and Technology
- Electronic Commerce
- E-Commerce Fundamentals and Development
- Internet and Web Programming
- Discrete Structure and Data Model
- Mathematics
- CEPA Knowledge Management Portal
- Financial Knowledge Dictionary System
- Team-Leadership Knowledge Management System
- Final Year Project Supervisor
- Co-Supervisors of Master of Philosophy

MSc in E-commerce, MSc in Information Technology, BSc in Information Systems and Computing (Division of IT, The University of Hong Kong and London University)

- BSc in Information Systems and Computing
- Information System Management
- Telecommunications and Computer Communications
- Human Computer Interaction
- Data, Information and information Storage
- Introduction to Computing
- Neural Network
- Artificial Intelligence
- Internet Commerce
- Information System Strategies and Management
- Evaluation of Information Systems

BSc in System Engineering and Engineering Management, Department of System Engineering and Engineering Management, The Chinese University of Hong Kong

- Open Systems and E-commerce
- Perspectives for E-commerce
- Computational Intelligent for Decision Making
- Data Structures

BEng in Computing (Department of Computer Science, The University of Hong Kong)

- Information System Management
- Special Topic in Information Systems