



**Artificial Intelligence in Finance**  
*at*  
**Hong Kong University of Science and Technology**

## Course Schedule

Session	Topic	Application & Case Study
1	– History and Overview of Artificial Intelligence	– Case study on HireVue
2	– Introduction to Supervised Learning	– Google Experiments: Draw! – Chatbots
3	– Regression, Classification, Model Assessment and Selection	– Google Experiments: Vision Sensing – Case study: WorkFusion (Robotic Process Automation)
4	– Decision Trees, Random Forests and Boosting	– Credit analysis
5	– Tutorials	– Tutorial on Machine Learning with Python – Tutorial on GPU server
6	– Topics in Blockchain	– FinTech & Blockchain
7	– An Introduction to Neural Networks and Deep Learning	– Natural language processing – Case study: Deep Instinct (Cybersecurity)
8	– An Introduction to Recurrent Neural Networks (RNN) and Long Short Term Memory (LSTM)	– Google Image Recognition – Case study: SenseTime (Computer Vision)
9	– An Introduction to Reinforcement Learning	– Competition of Cryptocurrency Trading with Deep Learning – Introduction to Deep Reinforcement Learning Trading
10	– Introduction to Unsupervised Learning: PCA, AutoEncoder, VAE and GANs	
11	– Investment Trends and FinTech Outlook	– Sales and Trading Business in Global Investment Banks – Ripe for Disruption by AI?
12	– Tutorial on Deep Learning in Python	– Exercise on Python Notebook
13	– Class Wrap	

Note: Details may change depending on class progress, development of relevant technologies, as well as information and feedback from students' surveys.

- Home
- Compete
- Data
- Notebooks
- Discuss
- Courses
- More

Featured Code Competition

## Two Sigma Financial Modeling Challenge

Can you uncover predictive value in an uncertain world?

**\$100,000**  
Prize Money

 Two Sigma · 2,066 teams · 3 years ago

[Overview](#) [Data](#) [Notebooks](#) [Discussion](#) [Leaderboard](#) [Rules](#)

## Overview

## Description

How can we use the world's tools and intelligence to forecast economic outcomes that can never be entirely predictable? This question is at the core of countless economic activities around the world – including at [Two Sigma Investments](#), who has been applying technology and systematic strategies to financial trading since 2001.

## Evaluation

## Honor-Code

## Prizes

## Submission-Instructions

## Timeline

For over 15 years, Two Sigma has been at the forefront of applying technology and data science to financial forecasts. While their pioneering advances in big data, AI, and machine learning in the financial world have been pushing the industry forward, as with all other scientific progress, they are driven to make continual progress. Through this exclusive partnership, Two Sigma is excited to explore what untapped value Kaggle's diverse data science community can discover in the financial markets.

Economic opportunity depends on the ability to deliver singularly accurate forecasts in a world of uncertainty. By accurately predicting financial movements, Kagglers will learn about scientifically-driven approaches to unlocking significant predictive capability. Two Sigma is excited to find predictive value and gain a better understanding of the skills offered by the global data science crowd.

### What is a Code Competition?

Welcome to Kaggle's very first Code Competition! In contrast to our traditional competitions, where competitors submit only prediction outputs, participants in Code Competitions will submit their code via [Kaggle Kernels](#). All kernels are private by default in Code Competitions. You can build your models in Kernels by running them on a training set and, once you're ready to submit your code, your model's performance will be evaluated against the test set and your score and public leaderboard position revealed. As with our traditional competitions, we still maintain a private leaderboard test set, which your code is also evaluated against for final scoring, but is not revealed until the competition closes.

Since Code Competitions are brand new, we ask for your patience if you encounter bugs or frustrating platform quirks. Please report any issues you find in the forums and we'll do our best to respond.



**WE'RE  
HIRING!**



Alpha  
Intelligence  
Capital

### Key Responsibilities

Students to form groups of five (5) to complete the following:

- Develop an understanding of the AI/ML industry landscape and relevant technologies
- Creation of a conference chatbot application to be deployed in June 2020

### Deliverables

- Knowledge assessment of NLP techniques and related applications via in-person interviews
- Monthly progress reports and regular updates
- Final group presentation on-campus or Central

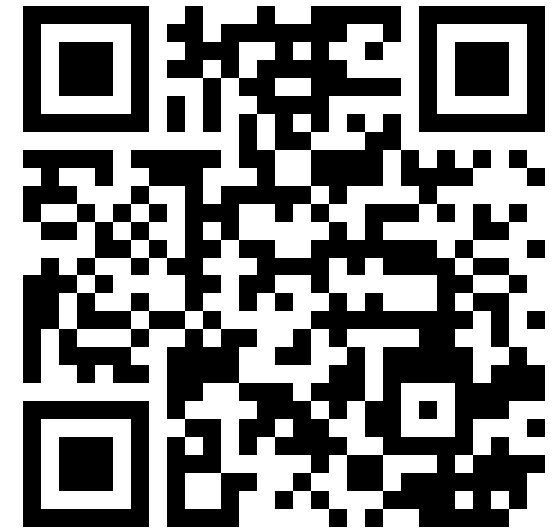
### Position Requirements

- Undergraduate or postgraduate students, preferably majoring in Artificial Intelligence, Mathematics, Statistics, Computer Science, Business Analytics, Finance, and/or Economics

Duration: Spring and summer 2020

Format: Groups of five (5) with multidisciplinary (and complementary) skillsets

Opportunity to convert to full-time based on performance



**Anthony Woo**

CFA CAIA FRM

Associate Director

Alpha Intelligence Capital

[aw@aicapital.ai](mailto:aw@aicapital.ai)



8-10  
JUN 20

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[CogX 2020 tickets](#)

# The World's Most Exciting Celebration of Innovation and Transformational Opportunities

| Festival of AI, Blockchain and Breakthrough Technologies  
Mon 8 - Wed 10 June 2020, King's Cross, London

[Last Chance Super Early Bird CogX 2020 Tickets](#)



# 第六屆

# 香港大學生創新及創業大賽

The 6th Hong Kong University Student Innovation and Entrepreneurship Competition



## 2020




# Team Project Options



	<b>Kaggle Competition</b>	<b><u>Entrepreneurship Competition</u></b>	<b>CogX-AIC Conference</b>	<b>Other</b>
Overview	Data analytics competition host backed by Google	Application details to be found <a href="#">here</a>	Also known as “CognitionX”, Europe’s largest AI conference	Other project(s) initiated by student(s) to be approved by instructors
Scope	Public	Public	Private	Public or private
Team Size	Any	Any	5 members	Any
Internship	No	No	Yes <sup>1</sup>	No
Interviews	N/A	N/A	Required	N/A
Nature	Trading	Various	NLP	Any
Deadline	May 31	April 15	May 31	May 31

Note: 1. High performers will be invited to interviews for full-time positions at Alpha Intelligence Capital

[Finance & Banking Masters - Finance and Banking MSc with King's. An Industry Leading Online Experience](#) Ad ...



**Anthony Woo, CFA CAIA FRM**  
Associate Director at Alpha Intelligence Capital

888  
Who's viewed your profile

7,567  
Connections  
Manage your network

Access exclusive tools & insights  
Free Upgrade to Premium

Share an article, photo, video or idea

Write an article

Images

Video

Post

Sort by: Top



**Germain Chastel**

Developing the First Open Knowledge Access Platform  
16h

The market for solar homes has skyrocketed - and these green tech disruptors are winning the race to reduce our carbon footprint:



**The Market For Solar Homes Has Skyrocketed, and These Green Tech Disruptors Are Winning the Race to Reduce our Carbon Footprint**

Germain Chastel on LinkedIn

By Germain Chastel and Sascha Eder NewtonX recently conducted an extensive panel on the pos...

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**Hussain Ali**

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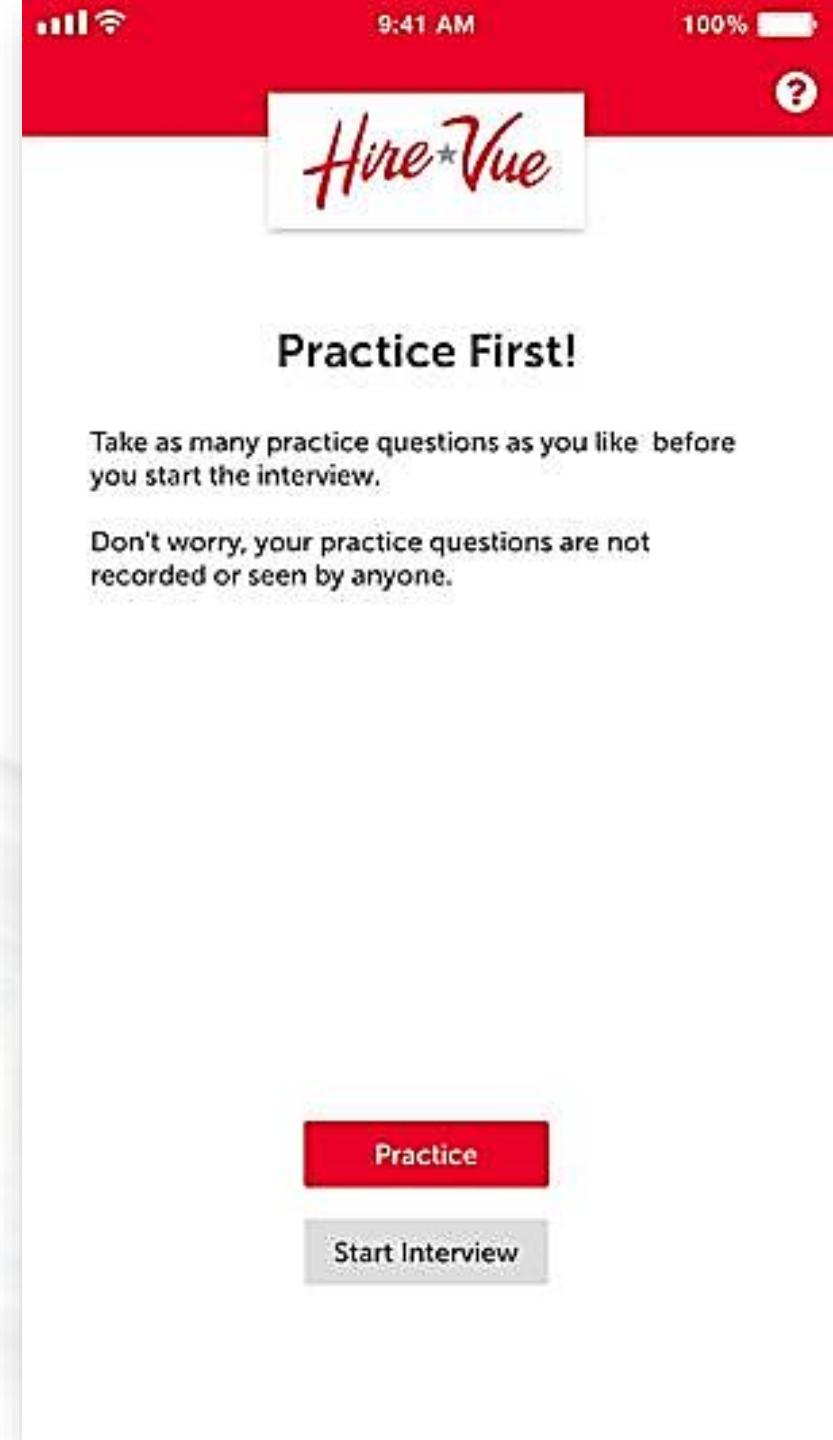


# HireVue Overview

This will be a new experience for many applicants because top banks like Goldman Sachs and JP Morgan have recently begun to use HireVue. It apparently adds 13% more top performers above the client's industry.

**The first interview is provided by HireVue;** however, it will not completely replace the more traditional, intensive recruiting process. If the first interview is successful, then **a representative from the bank will contact the candidate for a second interview.** From then on, any upcoming interviews will be part of the regular interview rounds, involving live interactions with analysts, associates and even VPs and MDs.

You will be given about **20-30 seconds for each question to think of a response.** After that, you'll have about **3 minutes to record your answer.** The amount of time given really depends on the questions. For instance, a question about why you would be the best candidate for the role will require a much longer and thoughtful response than answering a question about what your overall GPA is.







**Robotic Process Automation  
机器人与工序自动化**

Full-stack AI-enabled Robotic Process Automation (RPA) solution suite for business-critical tasks spanning multiple applications and data silos



**Quantum Computing  
量子计算**

Solution provider and platform developer for quantum and classical computing for predictive analytics, forecasting, and optimization



**Computer Vision  
计算机视觉**

Developer of deep learning technology-based computer vision solutions aimed at a broad range of consumer and enterprise applications



**Knowledge Graph  
知识图表**

Dynamically evolving knowledge graphs that provides inference strength across concepts, events and themes derived from a wide variety of information services



**Real-Time Robotics Automation  
实时机器人自动化**

Deep reinforcement learning-based AI software platform that enables enhanced perception, reaction and control in real-time robotics environments



**AI Chips  
人工智能芯片**

Deep reinforcement learning-based AI software platform that enables enhanced perception, reaction and control in real-time robotics environments



**Cybersecurity  
网络安全**

Advanced deep learning technology-based cybersecurity products and solutions for threat detection and prevention



**Music Augmentation  
音乐强化**

Developer of a music augmentation technology that transforms linear music to dynamically personalized music for consumers, ad-agencies, music labels, and producers



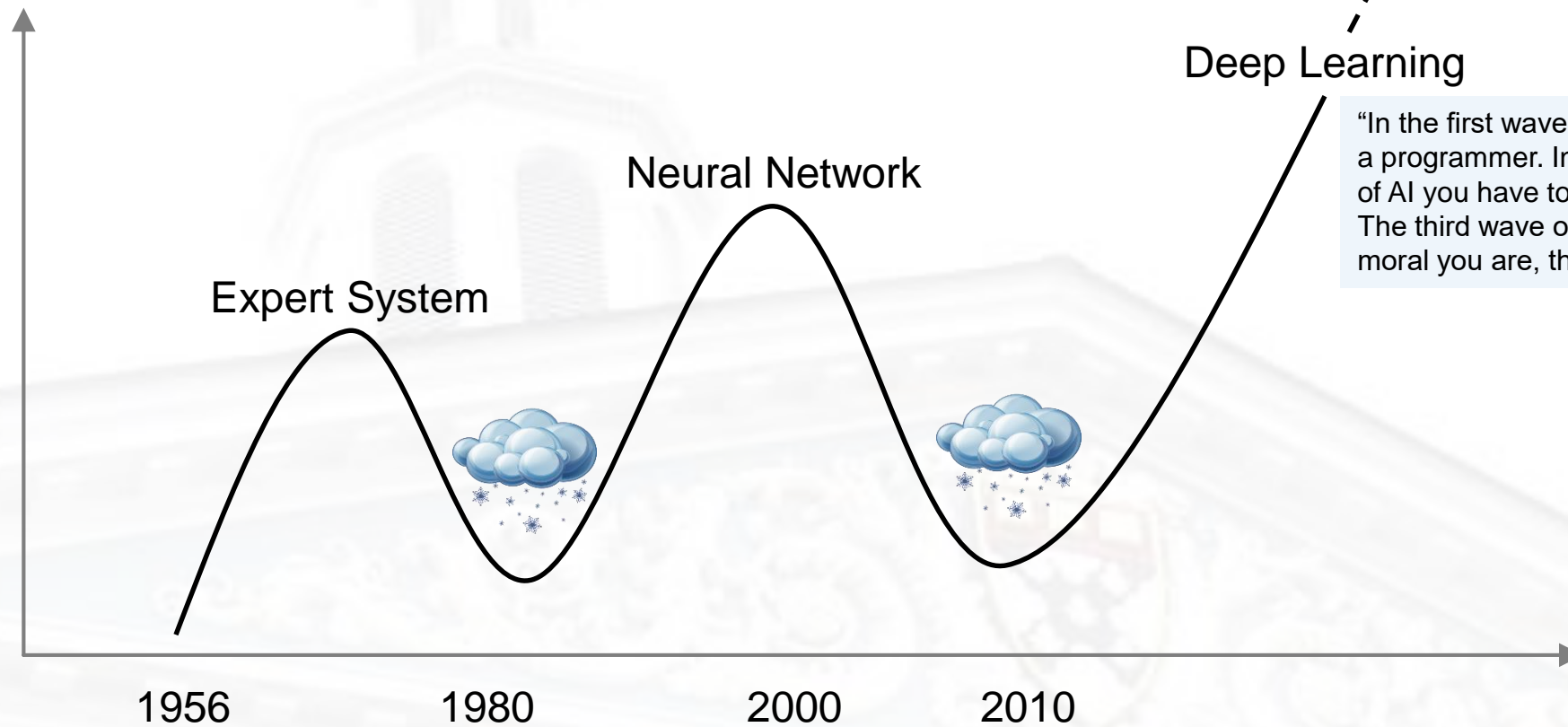
# Beyond the Classroom

Session	Topic	Session	Topic
A	– HireVue: Recruiting & AI	F	– LinkedIn & Networking
B	– Company Research: Bloomberg, McKinsey Insights, Zero2IPO	G	– Industry Primer: Investment Banking
C	– PowerPoint Creation	H	– Industry Primer: Management Consulting
D	– CV Writing & Interview Preparation	I	– Industry Primer: FinTech & VC/PE
E	– Certifications (CFA, CPA, GMAT...)	J	– Presentation Skills

**[www.slido.com](http://www.slido.com)**

**#POLL**

# History of A.I.



“In the first wave of AI you had to be a programmer. In the second wave of AI you have to be a data scientist. The third wave of AI—the more moral you are, the better.”



# A Tale of Two AI Camps

Property	Symbolic AI	Connectionist AI
Knowledge Acquisition	✓ Theoretical knowledge insertion can be made in a simple and direct manner. It is sufficient to clarify, convert, and formalize the knowledge.	✗ Theoretical knowledge may not be useful in constructing neural networks, while examples are always required for knowledge acquisition.
Processing Mode	✗ Processing is sequential. Answer and consultation times are long.	✓ Neural networks consist of a set of units with information processing completed in a parallel fashion.
New Knowledge Insertion	✓ Insertion of knowledge (rules) can be made very quickly once experts have already processed them.	✗ Training process is often time-consuming as weights and biases are trained gradually.
Training	✗ Training is not a basic process. Knowledge acquisition is done by explicitation, with potential bottleneck issues.	✓ Training and generalization from examples are fundamental and integrate processes.
Results Explanation	✓ Reasoning process allows for explainability. Knowledge is coded in a language close to natural language, and therefore easily interpretable.	✗ Neural networks are “black” boxes, where knowledge is coded in weights and interconnections, with a lack of access to a form that is interpretable by humans.

# A Tale of Two AI Camps

Property	Symbolic AI	Connectionist AI
Information Processing	✗ Theoretical knowledge must be complete beforehand, and the approach is not conducive to approximate or incomplete information processing.	✓ Neural networks are conducive to approximate and incomplete information processing (i.e. fuzzy logic).
Knowledge Coding	✓ Knowledge is represented by rules and data structures.	✓ Knowledge is coded in networks representing the relationships among input variables.
Development	✗ Long development cycles with domain experts are typical.	✗ Architecture and (hyper)parameters derivation and tuning can be time-consuming and difficult.
Maintenance	✗ Managing and maintaining large databases of rules are challenging. Adding new rules and updating existing ones may be difficult.	✓ Maintenance and management are often easy, and networks can be retrained based on changes in situational factors.

# A.I. Landscape: China vs. U.S.

	China	United States
<b>Institutional Norm</b>	Large volume of <u>data</u> via proprietary systems, yet to focus on building innovation capacity. China tends to be averse to adopting the standard metrics structures used by most multinationals. Chinese A.I. initiatives are good at developing facial recognition as well as tools for surveillance and tracking.	A.I. ecosystem with <u>unified standards and cross-platform sharing</u> . More conducive to developing international standards for what is acceptable for law enforcement use of big data and A.I., and how they will be held accountable for abuse. Developing A.I. tools for surveillance and tracking remains a sensitive topic in U.S.
<b>Regulatory Environment</b>	Tends to set regulations <i>after</i> product commercialization. Pursues a strategy of “ <u>military-civil fusion</u> ” in A.I., as China devises a range of policy mechanisms to incentivize industry cooperation. A looser approach to digital regulations means that companies have more freedom to experiment.	Tends to set regulations <i>before</i> product goes to market. The White House has so far been characterized as “ <u>missing-in-action</u> ” in terms of policymaking for A.I.
<b>Industry Structure</b>	<u>592 A.I. companies</u> (23% of global). Came second in the total number of A.I. enterprises in the world in 2017, and contributed 48% of the world’s total A.I. startup funding. A.I. Potential Index = 17.	Ranked first with <u>1,078 A.I. firms</u> (42% of global). Provided 38% of the funding for A.I. startups globally in 2017. A.I. Potential Index = 33.



# A.I. Landscape: China vs. U.S. (Cont'd)

China	United States
<b>Institutional Norm</b>	
<ul style="list-style-type: none"><li>• China has a <b>large volume of data</b> via proprietary systems.</li><li>• China has yet to focus on building its innovation capacity. But the nation has been supporting different research and workforce development, and reportedly aiming for international collaboration and expansion.</li><li>• In China, “outside companies do not plug in,” but become part of the business as one of hundreds of players in an ecosystem.</li><li>• China tends to be <b>averse to adopting the standard metrics structures used by most multinationals</b>; local suppliers, distributors or customers become partners to help them achieve success in an uncertain business environment.</li><li>• With regarding to developing software and hardware in A.I., China looks at it from a marathon perspective.</li><li>• Chinese A.I. initiatives are good at developing <b>facial recognition as well as tools for surveillance and tracking</b>.</li></ul>	<ul style="list-style-type: none"><li>• The U.S. is in process of creating a <b>data-friendly ecosystem with unified standards and cross-platform sharing</b>.</li><li>• The U.S is producing <b>more influential A.I. research</b>, with a <b>more robust ecosystem</b> nurturing more competitive A.I. startups.</li><li>• Companies in U.S. tend create platforms which external parties either plug into or put to use directly.</li><li>• The U.S. believes it is essential to develop <b>international standards</b> for what is acceptable for law enforcement use of big data and A.I., and how they will be held accountable for abuse.</li><li>• The U.S. is driving A.I. innovation across the spectrum in both software and hardware, with more early adopters and innovators.</li><li>• In U.S., companies in A.I. tend to be <b>averse to developing tools for surveillance and tracking</b>.</li></ul>











# A.I. Landscape: China vs. U.S. (Cont'd)

China	United States
<b>Regulatory Environment</b>	
<ul style="list-style-type: none"><li>• China can be the leader in introducing new regulations for the A.I. industry in the world, suggested by Jeffrey Ding, Macrostrategy Researcher at Future of Humanity Institute in Oxford University.</li><li>• The Chinese government <b>sets regulations <u>after</u> product commercialization in the market.</b></li><li>• China pursues a strategy of “<b>military-civil fusion</b>” in A.I., as it wields a range of policy mechanisms to incentivize industry cooperation.</li><li>• The Chinese government is willing to give private entrepreneurs the opportunity to test ideas, e.g. creating policy frameworks, providing subsidies and setting preferential policies to help them.</li><li>• A <b>looser approach</b> to digital regulations means that <b>companies can experiment more freely.</b></li></ul>	<ul style="list-style-type: none"><li>• The White House has so far been characterized as “<b>missing-in-action</b>”.</li><li>• <b>Regulations are often devised <u>before</u> the product goes to the market.</b></li><li>• U.S. companies with the best A.I. technology are often considerably <b>less willing to invest in national security applications.</b></li><li>• In 2017, the U.S. government drafted the first policy to move the U.S. public sector beyond acknowledging the significance of A.I., and toward fully embracing A.I. technologies.</li><li>• More emphasis placed on <b>digital regulations</b>, e.g. tighter cryptocurrency regulations.</li></ul>

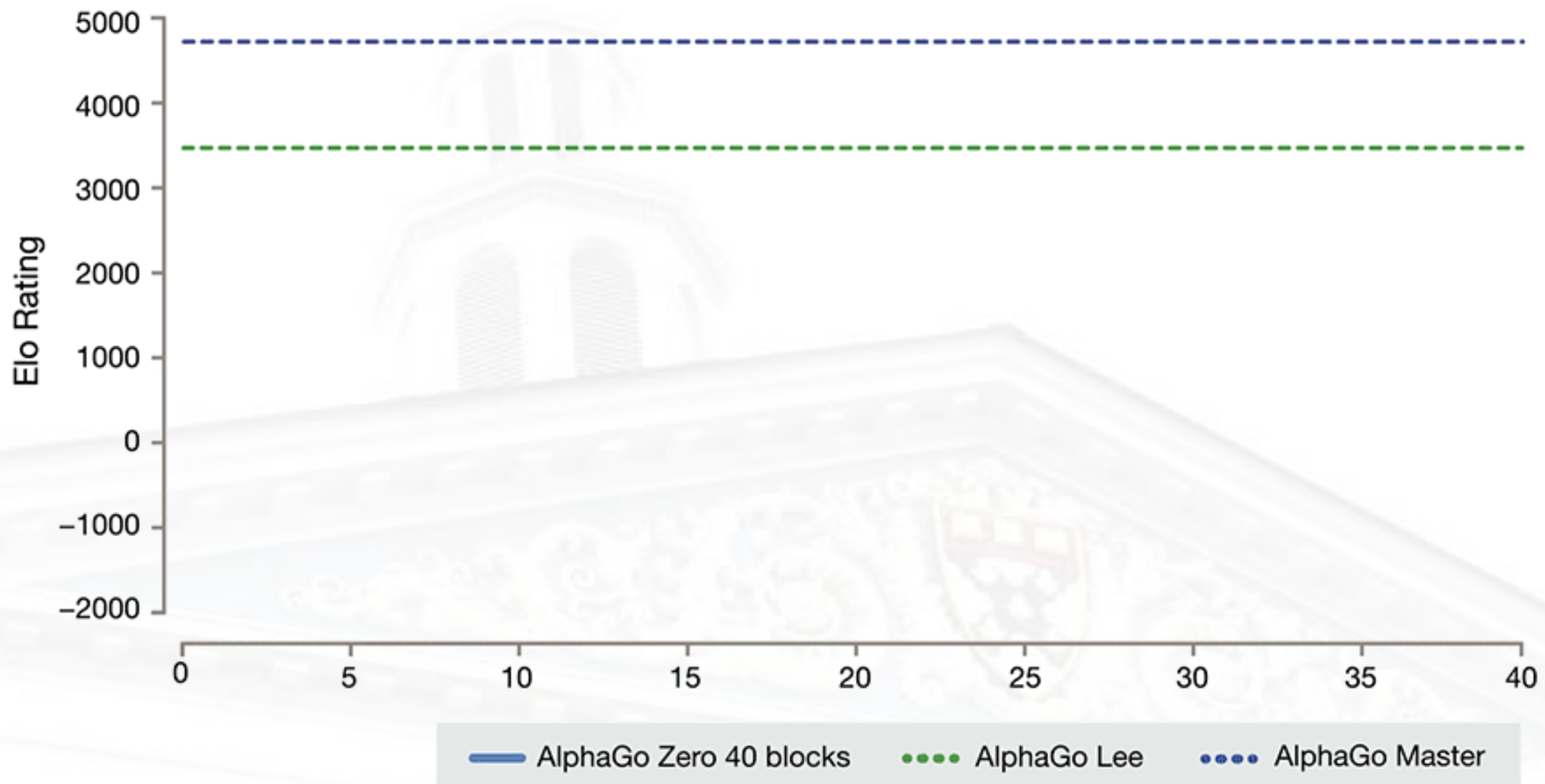
# A.I. Landscape: China vs. U.S. (Cont'd)

China	United States
<b>Industry Structure</b>	
<ul style="list-style-type: none"><li>• With <b>592 A.I. companies</b> (23%), China came second in the total number of A.I. enterprises among the world in 2017.</li><li>• Chinese A.I. companies received RMB 63.5 billion (USD 10.1 billion) in funding as of June 2017, and collectively ranked No. 2 in the world in terms of capital raised. Most funds were raised from domestic sources.</li><li>• China overtook the U.S. in terms of A.I. startup funding, with the former contributing <b>48% of the world's total A.I. startup funding in 2017</b>. But in terms of individual deals, China only accounted for 9% of the total.</li><li>• <b>Chinese production of semiconductors is only 4% of the total global market share.</b></li><li>• Most Chinese companies tend to only hire Chinese people, focus on the China market, and may lack an international vision.</li><li>• The “AI Potential Index” of China is 17, almost half of that of U.S., according to an analysis at the University of Oxford.</li></ul>	<ul style="list-style-type: none"><li>• The U.S. ranked first with <b>1,078 A.I. firms</b>, representing 42% of the total worldwide.</li><li>• About 50% of global A.I. investments went to U.S. startups, reaching RMB 97.8 billion (USD 15.5 billion) as of June 2017, and leading the world in terms of funding.</li><li>• In 2017, the U.S. provided 38% of the funding for A.I. startups globally, and <b>led in both the total number of A.I. startups and total overall funding.</b></li><li>• <b>50% of semiconductors in the world is produced by the U.S.</b></li><li>• Silicon Valley companies are dominated by a diversified culture.</li><li>• The “AI Potential Index” of U.S. is 33.</li></ul>

# A.I. Implementation Matrix

	Process A	Process B	Process C	Process D	Process E	
<b>Function &amp; Nature</b>	Strategic direction exploration	Sales lead management	Quality control	Risk management	Customer service (non-chatbot)	<b>Management</b>
<b>Data Availability</b>						
<b>AI Function &amp; Role</b>	Classification and Sentiment analysis	Facial recognition	Fault identification	Fraud detection and forecasting	Text to image processing	<b>A.I. Experts</b>
<b>AI Data Type</b>	Unstructured	Structured and clean	Structured and clean	Structured but sparse	Unstructured	
<b>AI Model</b>	<ul style="list-style-type: none"> <li>• Support Vector Machines (SVM)</li> <li>• Clustering</li> <li>• Recurrent Neural Networks (RNN)</li> </ul>	<ul style="list-style-type: none"> <li>• Convolutional Neural Networks (CNN)</li> </ul>	<ul style="list-style-type: none"> <li>• Support Vector Machines (SVM)</li> <li>• Clustering</li> </ul>	<ul style="list-style-type: none"> <li>• K-Nearest Neighbors (kNN)</li> <li>• Recurrent Neural Networks (RNN)</li> </ul>	<ul style="list-style-type: none"> <li>• Generative Adversarial Network (GAN)</li> </ul>	
<b>AI Readiness</b>						<b>A.I. Dashboard</b>
<b>Schedule</b>	TBD	Q3 2019	Q1 2019	TBD	Q1 2020	





**USERS  
CONTRIBUTE  
MORE DATA**

**PRODUCT  
GETS  
SMARTER**

The Virtuous Cycle of  
Data Network Effects

**MORE  
PEOPLE USE  
THE SERVICE**



## MAFS6010U: Artificial Intelligence in Finance



Team leaders should collect the completed forms from the whole team and e-mail them to course TA Mr. Yifei Huang at [aifin.hkust@gmail.com](mailto:aifin.hkust@gmail.com) on or before [February 22, 2019 \(Fri\)](#).



### Basic Information

English Name	Chinese Name	Photo
Name you prefer to be called:		
Program at HKUST:		
E-mail:		
Student ID:		

### Academic & Professional Background

What is your undergraduate university and major?

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Brief description of recent work experience (including internships):

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Share with us something unique about yourself that is important to you (e.g.

# Codename

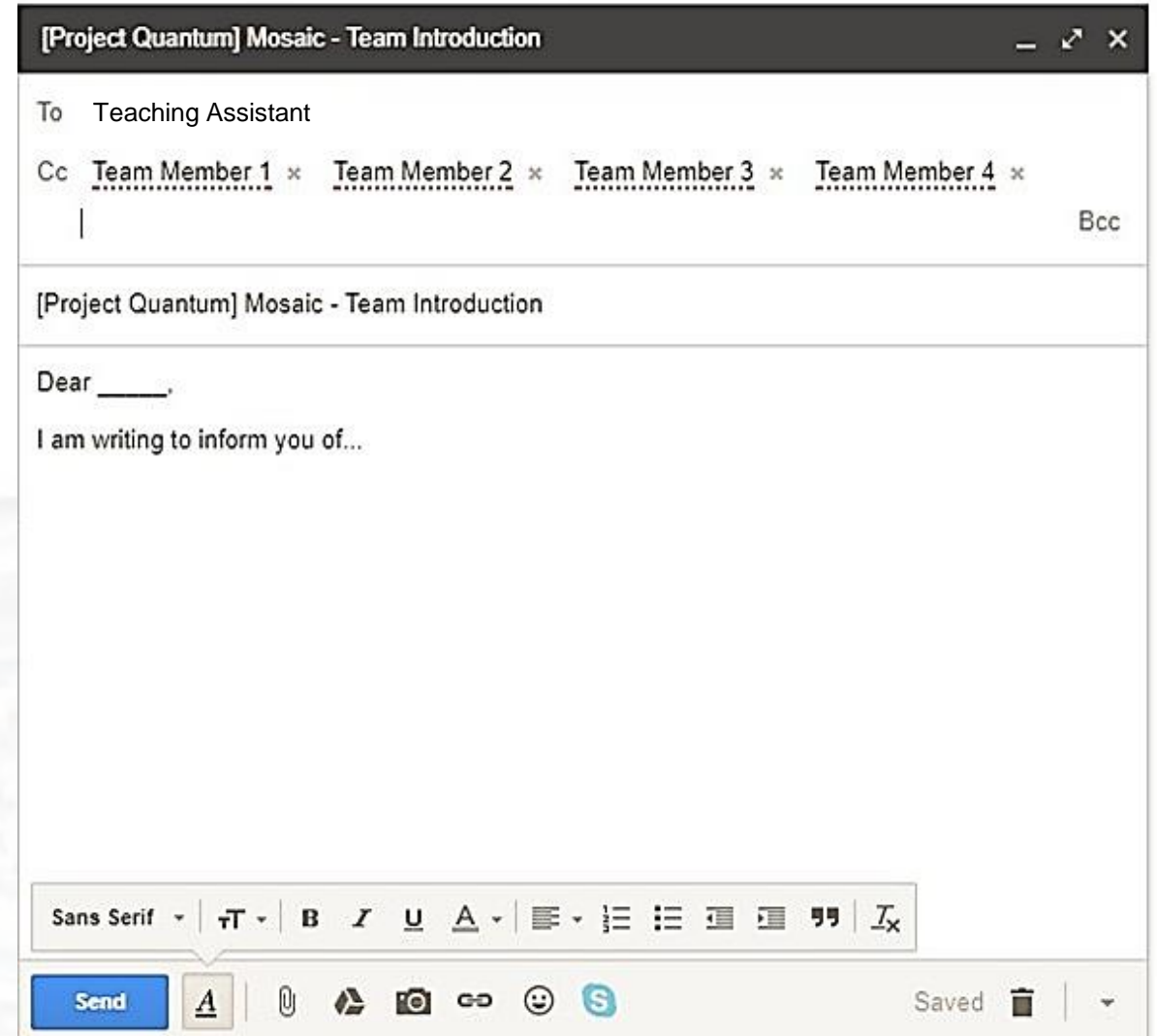
Project Quantum

Project Redbook

Project Dragon

Project Oasis

Project Fire





W

Aug 2011  
May 2013

M

**MORGAN STANLEY ASIA**

**HONG KONG, CHINA**

**Associate, Investment Banking Division – Hong Kong Corporate Finance Coverage Team**

- Shangri-La Asia inaugural issuance of US\$600MM under US\$3Bn Medium Term Note Program
- Multiple senior unsecured bond offerings for Hong Kong corporates, such as Kerry Properties (US\$600MM), Hang Lung Properties (US\$500MM), Nan Fung (US\$300MM), and PCCW (US\$500MM)

Summer 2010

**Summer Associate, Investment Banking Division – Technology, Media & Telecommunications Group**

- US\$272MM IPO of Dangdang Inc., China’s largest B2C e-commerce company (equivalent of Amazon)

2006 – 2008

J

**J.P. MORGAN CHASE & CO.**

2008 – 2009

**Investment Strategy Analyst, J.P. Morgan Private Wealth Management**

**NEW YORK, NY**

- Sole analyst directly supporting the global Chief Investment Officer (CIO) and Chief Economist of PWM

2006 – 2008

**Financial Analyst, J.P. Morgan Private Bank**

**SAN FRANCISCO, CA**

Summer 2007

**Financial Analyst, J.P. Morgan Private Bank, EMEA Equity Derivatives Group**

**LONDON, UK**

**Education**

2015 – 2016

HU

**UNIVERSITY OF HONG KONG**

**HONG KONG, CHINA**

Master of Science in Information Technology in Education (Specialist Strand: e-Leadership), *Distinction*.

2009 – 2011

HA

**HARVARD BUSINESS SCHOOL**

**BOSTON, MA**

MBA. Co-producer, Asian Cultural Show. Advisor, Harvard Innovation Lab (iLab)

2002 – 2006

UC

**UNIVERSITY OF CALIFORNIA, BERKELEY – HAAS SCHOOL OF BUSINESS BERKELEY, CA**

Bachelor of Science in Business Administration, *summa cum laude* (cumulative GPA: 3.9, top 3% of class).

Dean’s Honor List (02-06). President, California Investment Association (MT) (as-sponsored investment fund)

T

**Technology-related Certifications**

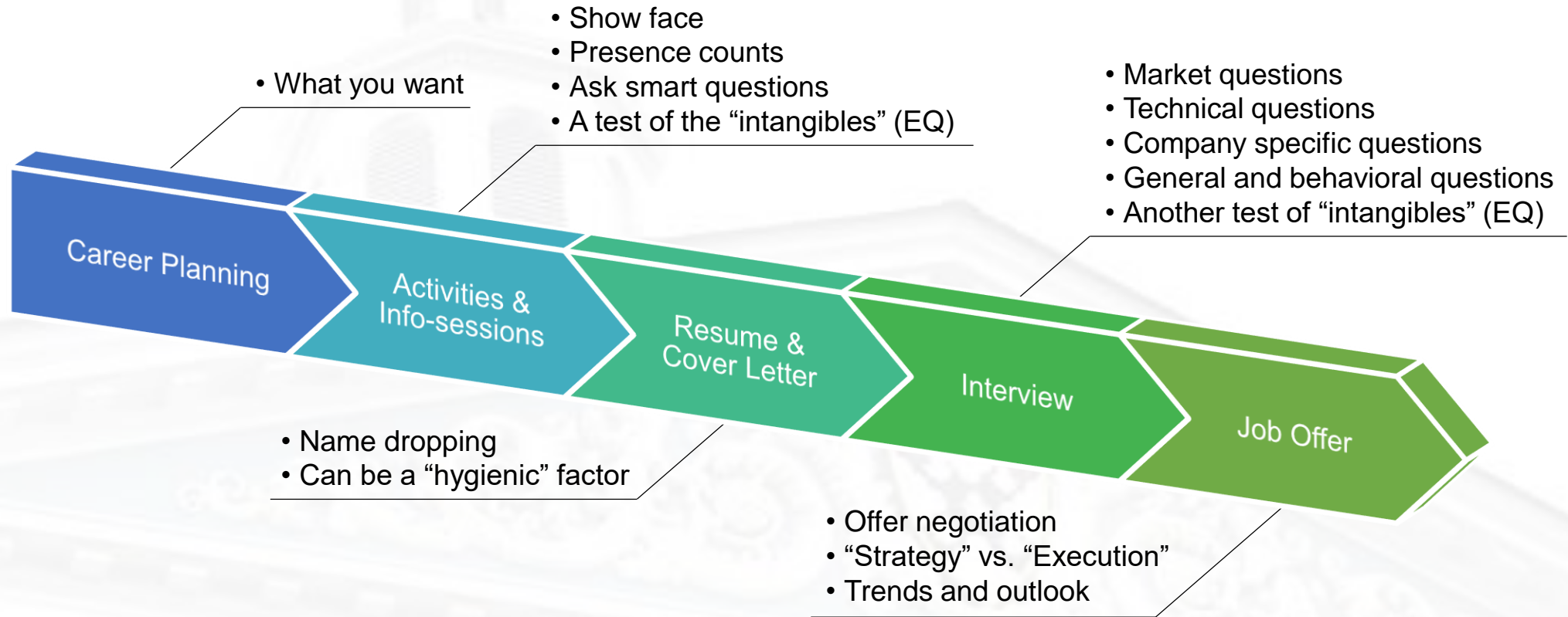
Certificate on Machine Learning for Big Data & Text Processing at MIT Computer Science and Artificial Intelligence Laboratory (CSAIL). Certificate on Deep Learning and Machine Learning with TensorFlow.

CB

Certified Bitcoin Professional (CBP). Conducted research into Probabilistic Topic Modeling using R

TF

# Career Roadmap & CV Clinic



# Biography



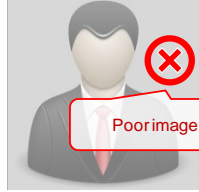
Anthony Woo  
CFA CAIA FRM

Anthony is currently a researcher focusing on fintech and frontier technologies such as artificial intelligence, and blockchain. He has co-authored HBS cases such as Ant Financial and Dianrong, and is conducting research into machine learning (e.g. neural networks and deep learning). Anthony is the Chief Strategy Officer of Bauhinia Creek Ventures, and Venture Mentor of the Hangzhou Municipal Government. As an advisor of the Harvard Innovation Lab (iLab), Anthony is part of multiple startups in Greater China. Anthony used to be an investment banker at Morgan Stanley. Prior to that, he spent several years at J.P. Morgan in portfolio management, equity derivatives, and investment strategy in San Francisco, London, and New York. In New York, Anthony reported directly to the global Chief Investment Officer (CIO) and Chief Economist of J.P. Morgan Private Wealth Management managing over US\$ 249 billion of client assets. Anthony completed his MBA at Harvard Business School. He graduated from the University of California, Berkeley (Haas School of Business) *summa cum laude* with a B.S. degree in Business Administration. As an elected member of the Board of the Faculty of Education at the University of Hong Kong (HKU), Anthony has completed an M.S. degree in Information Technology in Education (Distinction) and is conducting research into topics in education and innovation using artificial intelligence. Anthony has been appointed by the HKSI Institute as an instructor. He is also a GCDF certified by the U.S. Center For Credentialing & Education and the Chinese University of Hong Kong. Anthony currently holds the designations of Chartered Financial Analyst (CFA), Chartered Alternative Investment Analyst (CAIA), Financial Risk Manager (FRM) and Certified Bitcoin Professional (CBP). Anthony has completed a certificate in Machine Learning for Big Data & Text Processing at MIT, and a workshop on Adaptive Testing at the Psychometrics Centre of the University of Cambridge. He has also passed exams in probability and financial mathematics of the Society of Actuaries. Anthony is an FAA licensed Private Pilot and a PADI Advanced Scuba Diver, and has completed Wine & Spirit Education Trust

Source: Bauhinia Creek Ventures (WSET) Level 2 with merit.

Poor contrast and illegible

Text overflow



Anthony Woo  
CFA CAIA FRM

Anthony is currently a researcher focusing on fintech and frontier technologies such as artificial intelligence, and blockchain. He has co-authored HBS cases such as Ant Financial and Dianrong, and is conducting research into machine learning (e.g. neural networks and deep learning). Anthony is the Chief Strategy Officer of Bauhinia Creek Ventures, and Venture Mentor of the Hangzhou Municipal Government. As an advisor of the Harvard Innovation Lab (iLab), Anthony is part of multiple startups in Greater China. Anthony used to be an investment banker at Morgan Stanley. Prior to that, he spent several years at J.P. Morgan in portfolio management, equity derivatives, and investment strategy in San Francisco, London, and New York. In New York, Anthony reported directly to the global Chief Investment Officer (CIO) and Chief Economist of J.P. Morgan Private Wealth Management managing over US\$ 249 billion of client assets. Anthony completed his MBA at Harvard Business School. He graduated from the University of California, Berkeley (Haas School of Business) *summa cum laude* with a B.S. degree in Business Administration. As an elected member of the Board of the Faculty of Education at the University of Hong Kong (HKU), Anthony has completed an M.S. degree in Information Technology in Education (Distinction) and is conducting research into topics in education and innovation using artificial intelligence. Anthony has been appointed by the HKSI Institute as an instructor. He is also a GCDF certified by the U.S. Center For Credentialing & Education and the Chinese University of Hong Kong. Anthony currently holds the designations of Chartered Financial Analyst (CFA), Chartered Alternative Investment Analyst (CAIA), Financial Risk Manager (FRM) and Certified Bitcoin Professional (CBP). Anthony has completed a certificate in Machine Learning for Big Data & Text Processing at MIT, and a workshop on Adaptive Testing at the Psychometrics Centre of the University of Cambridge. He has also passed exams in probability and financial mathematics of the Society of Actuaries. Anthony is an FAA licensed Private Pilot and a PADI Advanced Scuba Diver, and has completed Wine & Spirit Education Trust

Source: Bauhinia Creek Ventures (WSET) Level 2 with merit.

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# Biography



Anthony Woo  
CFA CAIA FRM

**Fintech**

- Researcher focusing on fintech and frontier technologies, e.g. A.I., blockchain
- Advisor of the Harvard Innovation Lab (iLab)
- Chief Strategy Officer of Bauhinia Creek Ventures
- Investment Mentor at Hong Kong Securities & Investment Institute

**Finance**

- Investment banker at Morgan Stanley serving Shangri-La, China Resources, PCCW etc.
- Analyst at J.P. Morgan in portfolio management, equity derivatives, and investment strategy in San Francisco, London, and New York (over US\$249 billion of assets under management)

**Education**

- MBA at Harvard Business School
- B.S. Business Administration at U.C. Berkeley (*summa cum laude*)
- M.S. of Information Technology in Education (Distinction) at the University of Hong Kong
- Global Career Development Facilitator (GCDF)

**Certifications**

- Chartered Financial Analyst (CFA); Chartered Alternative Investment Analyst (CAIA); Financial Risk Manager (FRM); Certified Bitcoin Professional (CBP); Certificate in Machine Learning for Big Data & Text Processing at MIT
- FAA licensed Private Pilot and a PADI Advanced Scuba Diver

Proper alignment

Sources: Bauhinia Creek Ventures ([www.bcventures.co](http://www.bcventures.co)) and LinkedIn ([www.awoo.me](http://www.awoo.me))

Incorporate (short) links for quick referencing

Sufficient contrast in the same color tone for legibility

Avoid complete sentences, use bullet points instead

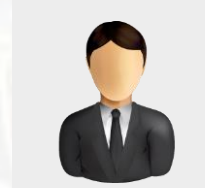
Appropriate text wrapping

Consistent font and font size

Highlight important points

Incorporate page number for the ease of navigation

# Biography



Anthony Woo  
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