



香港科技大學
THE HONG KONG
UNIVERSITY OF SCIENCE
AND TECHNOLOGY

My Experience @HKUST

Steven Suntoso

Seminar Edukasi Wardaya College

2017



School of 理學院
Science





Education Center for Concepts and Olympiads
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A little bit about me 😊



Steven Suntoso



Tangerang-Hong Kong



SMAK 1 PENABUR Jakarta Alumni



BSc In Quantitative Finance (QFIN)

HKUST is the place for pursuing
and achieving your **DREAM**.



HKUST Global Rankings



Global Graduate Employability University Ranking

*(published by
Times Higher Education)*

2012: 46th

2013: 18th

2014: 16th

2015: 14th

2016: **13th**

1. California Institute of Technology

2. Massachusetts Institute of Technology

3. Harvard University

4. University of Cambridge

5. Stanford University

6. Yale University

7. University of Oxford

8. Technical University of Munich

9. Princeton University

10. University of Tokyo

11. Boston University

12. Columbia University

**13. Hong Kong University of Science and
Technology**

14. University of Toronto

15. National University of Singapore



2

State Key Laboratories



100%
Faculty with PHD



30+

Sports Teams



13,000+

UG + PG Students



9 UG Residential Halls



4,000 Hall places



100+

Student Societies

40

MAJORS

23

MINORS



School of
SCIENCE



School of
ENGINEERING



School of
**BUSINESS and
MANAGEMENT**



School of
**HUMANITIES and
SOCIAL SCIENCE**



**INTERDISCIPLINARY
PROGRAMS OFFICE**

FLEXIBLE COMBINATION



Over 1,000 program combinations available

Experiential Learning Opportunities

IROP

(International Research Opportunities Program)

iGEM

(International Genetically Engineered Machine)

UROP

(Undergraduate Research Opportunities Program)

SiGHT

(Student innovation for Global Health Technology)



50%
of students
study abroad



250+
Institution
exchange
partners



Student body
50+
nationalities



1000+
Incoming
exchange
students





Job and Entrepreneurship Opportunities

Build Your Own Business

HeadStart Program

1 Million Dollar Competition

Internship Opportunity

Minor Program in Entrepreneurship



FAQs & Students' Sharing Session

Steven, :

1. What are the Admission Requirements?
2. How to apply to HKUST?
3. How much do you spend each month at HKUST?
- 4. Is there any scholarship available?**



What are the Admission Requirements?

- General Admission Requirements:
 1. Grade 10 & Grade 11 Highschool Report
 2. Senior Level subject from Bahasa Indonesia, Bahasa Inggris, Mathematics
- Program-specific Requirements:
 1. Senior Level subject from Chemistry/Biology/Physics
- English Language Requirements:
 1. IELTS: 6.0 / TOEFL iBT: 80
 2. Other qualification such as SAT is definitely a plus



How to Apply to HKUST?

1. Prepare all the admission requirements mentioned in the previous slide and other supporting documents. (1 year before your admission year should be ideal)
2. Submit your application through the online admission system (October –mid January)
3. Interview (December or March)
4. Follow up with the admission officers and pray!
5. Conditional Offer (January – April)
6. Firm Offer (after SMA UN score release)

How much will you spend at HKUST

Fees and Living Expenses

Estimated cost per academic year	Non-local students [#]	Local students
Tuition fee (except for the World Bachelor in Business Program)	HKD140,000 [-USD18,100]	HKD42,100 [-USD5,450] [*]
University-provided accommodation[*] (excluding meals, air conditioning charges, laundry)	HKD12,644-21,058 [-USD1,650-2,720]	HKD10,156-16,919 [-USD1,320-2,200]
Personal expenses (including books and supplies)	HKD27,000-36,000 [-USD3,500-4,700]	
TOTAL	HKD179,644-197,058 [-USD23,250-25,520]	HKD79,256-95,019 [-USD10,270-12,350]

[#] Non-local students refer to individuals requiring a student visa or an entry permit to study in Hong Kong.

^{*} Non-local students are guaranteed university-provided accommodation for the first 2 years of study while local students are guaranteed 1-term hall residence in their first year of study. Students may need to arrange for their own accommodation thereafter. On average, off-campus rental cost is HKD5,000 per month, excluding bills and utilities. For more details, please refer to <http://shrc.ust.hk>.

^{*} The final year of the Dual Degree Program in Technology and Management is offered on a self-financing basis. For reference, the tuition is HKD60,000 p.a. for local students and HKD140,000 p.a. for non-local students in 2017/18.



Some Useful Links

- <https://join.ust.hk/>
- www.ust.hk
- [https://join.ust.hk/docs/Brochure/HKUST-brochure EN.pdf?utm_medium=pdf&utm_source=ust_website](https://join.ust.hk/docs/Brochure/HKUST-brochure_EN.pdf?utm_medium=pdf&utm_source=ust_website)



Is There Any Available Scholarship?

- HKUST offers admission based scholarship and scholarship for continuing students
- For more information visit:
<https://sfao.ust.hk/>

What is Quantitative Finance



The Black-Scholes Formulas

$$c = S_0 N(d_1) - K e^{-rT} N(d_2)$$

$$p = K e^{-rT} N(-d_2) - S_0 N(-d_1)$$

$$\text{where } d_1 = \frac{\ln(S_0 / K) + (r + \sigma^2 / 2)T}{\sigma \sqrt{T}}$$

$$d_2 = \frac{\ln(S_0 / K) + (r - \sigma^2 / 2)T}{\sigma \sqrt{T}} = d_1 - \sigma \sqrt{T}$$





What is Quantitative Finance?

- According to Wikipedia:
 - *A field of applied mathematics, concerned with financial markets. Generally, mathematical finance will derive and extend the mathematical or numerical models.*
- My personal opinion:
 - Combining **Mathematics, Programming skills, and Finance knowledge** to solve financial problems.



Why Quantitative Finance?

	Price	Chng	52 week High	Low	Yld	P/E	Vol	Stock
MSFT	50	-4.50	937	644.50	3.5	11.4	635	ChJohnson
GOOG	275	-1.25	549.50	421.25	4.1	23.5	20844	ChMerck
AMZN	131	-14	1,705	1,316	2.7	12.6	4987	ChinaMob
FB	113	-4.50	127.50	86.50	3.4	10.6	3367	ChNetcm
...	...	...	...	...	...	...	...	ChResEntp
...	...	...	...	...	...	...	...	ChTelecomH
...	...	...	...	...	...	...	...	ChUnicom
...	...	...	...	...	...	...	...	CiticPac
...	...	...	...	...	...	...	...	CoscoPac
...	...	...	...	...	...	...	...	DenwayMtr
...	...	...	...	...	...	...	...	EspritAsia
...	...	...	...	...	...	...	...	Gucco Gp

$$= 2\pi \int_0^{\sqrt{3}} x \sqrt{1 + (2x)^2} dx$$
$$= \frac{2\pi}{8} \int_0^{\sqrt{2}} (1 + 4x^2)^{1/2} (8x) dx$$
$$\pi [(1 + 4x^2)^{3/2}]^{\sqrt{3}}$$

1. Passion in Finance

2. I like Math!



Why You Should Also Major in QFIN?

The answer is simple:

Technology disruption in the Financial Industry

Business Impact

As Goldman Embraces

At its height back in 2000, the U.S. cash equities trading desk at Goldman Sachs's New York headquarters employed 600 traders, buying and selling stock on the orders of the investment bank's large clients. Today there are just two equity traders left.

and the profits...

by Nanette Byrnes February 7, 2017



What You HAVE to DO to get into HKUST QFIN

- Maintain good grades:
 - You have to score way above your peers' average.
 - SMA UN>88, GPA: 3.7/4.3
- Practice your public speaking and interview skills
 - Interview accounts for less than 50% of the decision matrix
- Have a strong passion in finance, and make sure you show it to the interviewers!
 - Read financial news
 - Join investment or finance clubs



What You will Learn?

- Freshman Year:
 - Basic Business Course and Highschool Mathematics
- Sophomore Year:
 - Calculus 2, Visual Basic Programming, some left – over basic business courses
- Penultimate Year:
 - Electives: Advance Mathematics, Programming, and Finance
- Final Year:
 - Project: Quantitative Trading



Future Plan?

citibank



Fidelity
INVESTMENTS



J.P.Morgan



CITADEL

HSBC



Merrill Lynch



Why HKUST??

- One of the best University in the world
- Located in Hong Kong
- Offered Program (BSc in Quantitative Finance)
- No Entrance Examination Needed! :D
- They offered me scholarship!





My Life in HKUST





My Life in HKUST





My life in Hong Kong





Future Plan?

citibank



Fidelity
INVESTMENTS



J.P.Morgan



CITADEL

HSBC



Merrill Lynch



Exchange Plan!



Università Commerciale
Luigi Bocconi



COLUMBIA UNIVERSITY
IN THE CITY OF NEW YORK



清華大學

Tsinghua University



NYU | STERN



NUS
National University
of Singapore



UCLA





Contact Me



stevensts



@stevensts

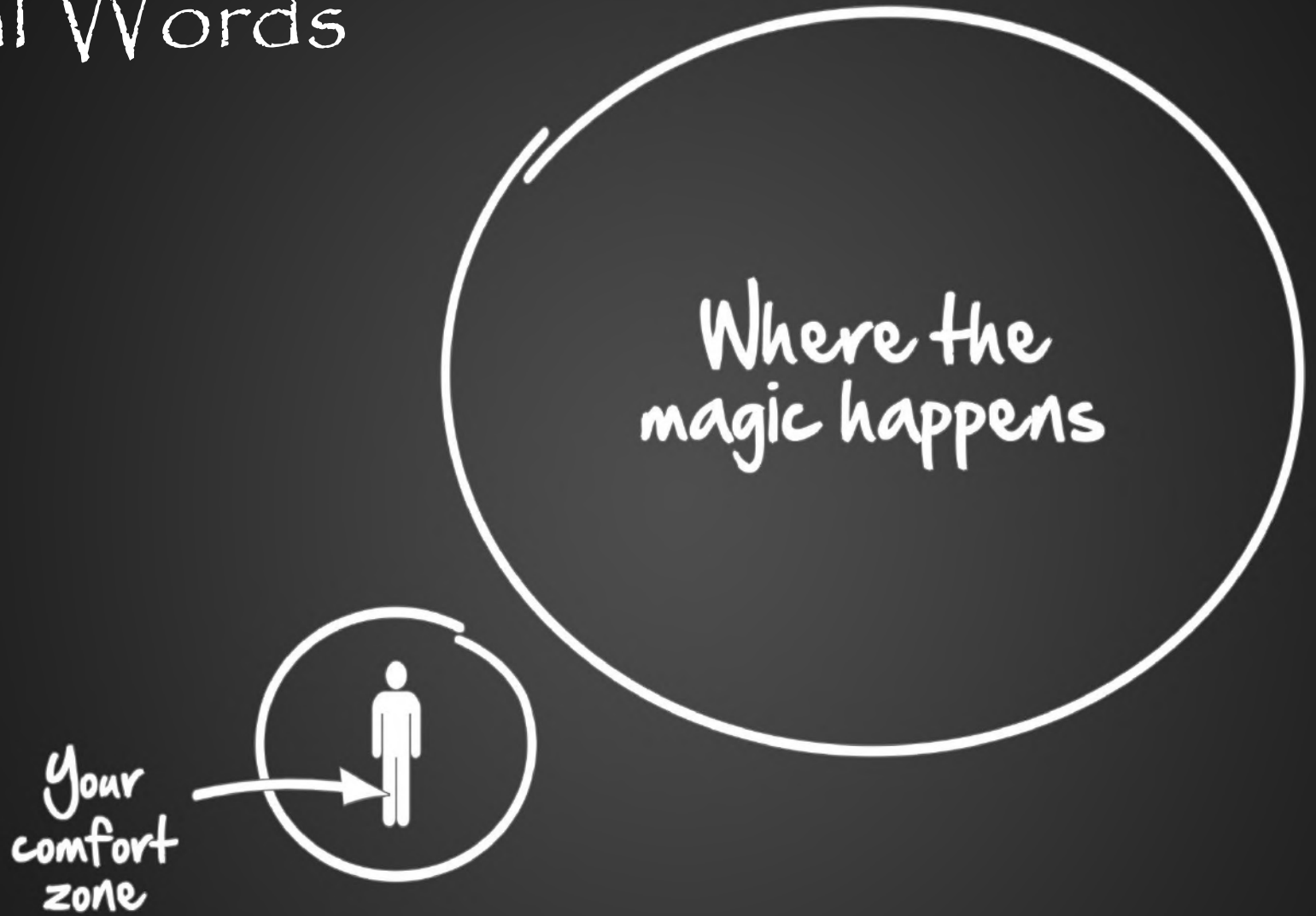


Steven Suntoso



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Final Words



RMBI LIFE @ hkust



Kwan Flavia Jofani Susanto

About Me

- KWAN, Flavia Jofani Susanto
- 2nd Year student at Hong Kong University of Science and Technology
- Majoring in Risk Management and Business Intelligence
- Admission: School of Science
- Why HKUST?
- Why RMBI?



Student Life

- Societies
- Volunteering Activities
- Hall life
- International Campus
- Internship
- Exchange pro
- Exploring HK!



Interdisciplinary Program @ HKUST

- Dual Degree Program (DDP)
- Environmental Science and Management (EVMT, Bsc)
- IIM (Interdisciplinary Individualized Major, Bsc)
- RMBI (Risk Management and Business Intelligence, Bsc)



What is RMBI?

- Risk Management:
 - Do you like mathematics finance, accounting, econ?
- Business Intelligence:
 - Do you like programming, statistics, probabilities?



How to Apply to HKUST (RMBI program based)

- Early and Main Round
 - Minimum scores → same as HKUST
- 1st Choice: RMBI (Recommended)
- 2nd and 3rd choice(s): any school (science, engineering, business, or humanities)
- School based, 1st Round of Selection: GPA/CV
 - Math Calculus 1 & 2, Language courses min: B-
 - GPA (Recommended): Above 3.00
- School based, 2nd Round of Selection: Interview (Group of 5)

take-away message

- 🏛️ **Do a lot of research about HKUST and the program**
- 🏛️ **Ask for guidance from HKUST students or an advisor**
- 🏛️ **Lookup on the internet about future exchange rates and the value of the RMB**
- 🏛️ **Make sure its the right choice for you**
- 🏛️ **Do your best!**



Contact Me!



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