

HKUST Information Day 2023:
QFIN Program Talk

October 14, 2023 (Sat) | 13:30 – 14:10

Agenda

01 Brief Introduction of QFIN

02 QFIN Student/Alumni Sharing

03 Discussion Forum

04 QFIN Booth



OUR TEAM



**Prof. Ekkachai
SAENYASIRI**

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UG Coordinator
Department of Finance



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**Prof. Veronique A.
LAFON-VINAIS**

Executive Director, Career
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Ms. Miki YEUNG

Program Manager
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QFIN Features

- Established in 2004
- Employs mathematical and statistical methods to analyse investment opportunities across a range of asset classes
- Designed for students with a strong interest in the finance industry
- Close interaction among students and the Program
- Resources and supports from both HKUST and finance professionals
- Help young talents to be
 - Well-rounded, excellent in both academic and non academic aspects
 - Proactive, find ways to improve, involve, and get more opportunities
 - Collaboration, know the value of collaboration with others
 - Professionals, be ready to excel to pursue careers in finance and business



QFIN Community



QFIN Program Size

Total: 24

Male vs Female | 17:7
Local vs Non-Local | 20:4
From Mainland China, Hong Kong,
India, Thailand

Total: 36

Male vs Female | 27:9
Local vs Non-Local | 23:13
From Mainland China, Hong Kong,
Taiwan



Total: 48+1* (additional major in QFIN)

Male vs Female | 29:20
Local vs Non-Local | 33:16
From Mainland China, Hong Kong, Korea,
Macao, Malaysia, United States

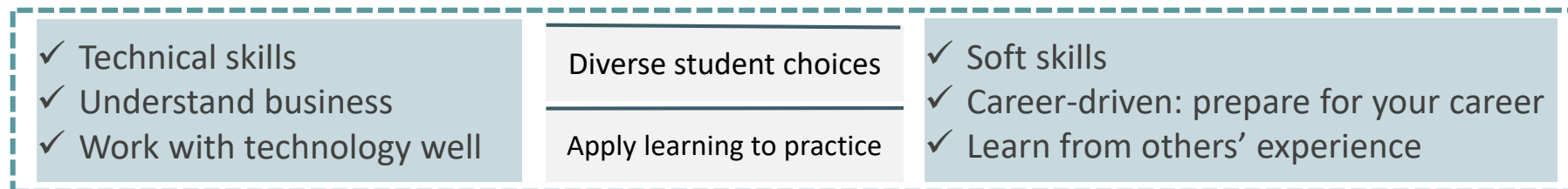
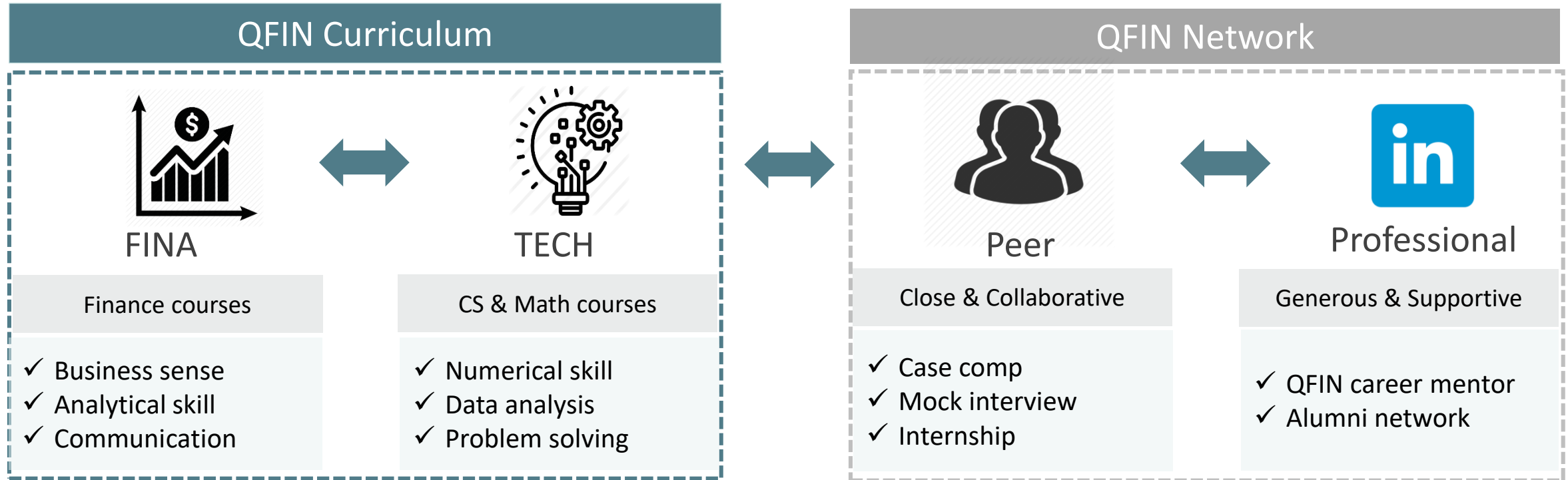
Total: 51+1* (additional major in QFIN)

Male vs Female | 35:17
Local vs Non-Local | 33:19
From Mainland China, Hong Kong, India,
Indonesia, Taiwan

*1 student from DSCT

Total (#): 161 students

QFIN Focus



Be well-rounded and prepared for the career you like

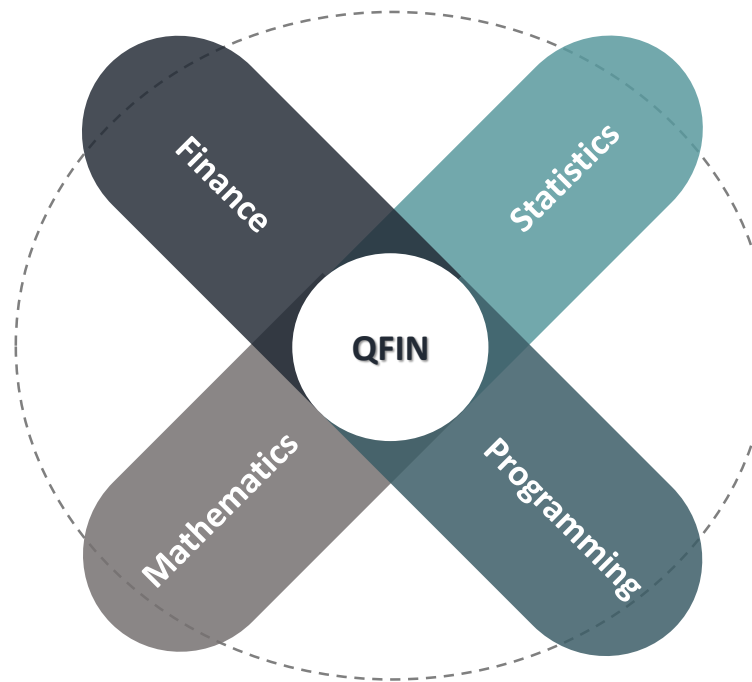
QFIN Curriculum

Required Courses

- FINA 3103 Intermediate Investments
- FINA 3203 Derivative Securities
- FINA 3303 Intermediate Corporate Finance
- FINA 3810 Bloomberg Market Concepts Certification
- FINA 4803 Quantitative Trading
- ECON 3334 Introduction to Econometrics
- ISOM 3230 Business Programming in VBA
- MATH 1014 Calculus II
- MATH 2023 Multivariable Calculus

Elective Requirements

- Area A: Finance course [at least 1 course]
- Area B: Programming and Data Analysis [at least 2 courses]
- Area C: Quantitative Skills [at least 3 courses]



Finance program with additional focus on quantitative skills.

Wide

Deep

	Finance	Quantitative	Workplace Application
Basic	Accounting, Economics, Financial Management	Multivariable Calculus, Linear Algebra	Bloomberg Market Concept
Advance	Investments, Corporate Finance, Derivatives, Quantitative Trading	Data Mining, Statistical Analysis of Financial Data in R	Business Programming in VBA

QFIN Curriculum: Electives



Area A: Finance

- FINA 3820 Refinitiv Certification Program
- FINA 3830 Refinitiv Analytics
- FINA 4003 Wealth Management
- FINA 4013 Corporate Valuation
- FINA 4103 Financial Markets Trading and Structure
- FINA 4203 Mergers, Acquisitions, and Corporate Restructuring
- FINA 4303 Fixed Income Securities
- FINA 4403 International Finance
- FINA 4413 Family Business
- FINA 4503 Banking and Financial Intermediation
- FINA 4513 Risk Management
- FINA 4603 Venture Capital Financing
- FINA 4703 ESG Investing
- FINA 4929 Special Topics in Finance
 - Family Office
 - Responsible Finance
 - Introduction to Artificial Intelligence and Big Data in Finance

At least 3 credits (1 course)



Area B: Programming and Data Analysis

- ISOM 3360 Data Mining for Business Analytics
- ISOM 3370 Big Data Technologies
- COMP 2011 Programming with C++
- COMP 2012 Object-Oriented Programming and Data Structures
- COMP 2012H Honors Object-oriented Programming and Data Structures
- COPM 3211 Fundamentals of Artificial Intelligence
- COMP 4211 Machine Learning
- COMP 4221 Introduction of Natural Language Processing
- COMP 4331 Data Mining
- COMP 4332 Big Data Mining and Management
- COPM 4471 Deep Learning in Computer Vision
- RMBI 4310 Advanced Data Mining for Risk Management and Business Intelligence

At least 6 credits (2 courses)



Area C: Quantitative Skills

- ECON 4304 Time Series Econometrics and Business Forecasting
- ISOM 3540 Introduction to Probability Models
- ISOM 4520 Statistics for Financial Management
- ISOM 4530 Statistical Analysis of Financial Data in R/S-plus
- ISOM 4540 Time Series Analysis and Forecasting
- MATH 2111 Matrix Algebra and Applications
- MATH 2121 Linear Algebra
- MATH 2131 Honors in Linear and Abstract Algebra I
- MATH 2350 Applied Linear Algebra and Differential Equations
- MATH 2351 Introduction to Differential Equations
- MATH 2352 Differential Equations
- MATH 2421 Probability
- MATH 2431 Honors Probability
- MATH 3423 Statistical Inference
- MATH 4511 Quantitative Methods for Fixed Income Derivatives
- MATH 4512 Fundamentals of Mathematical Finance

At least 9 credits (3 courses)

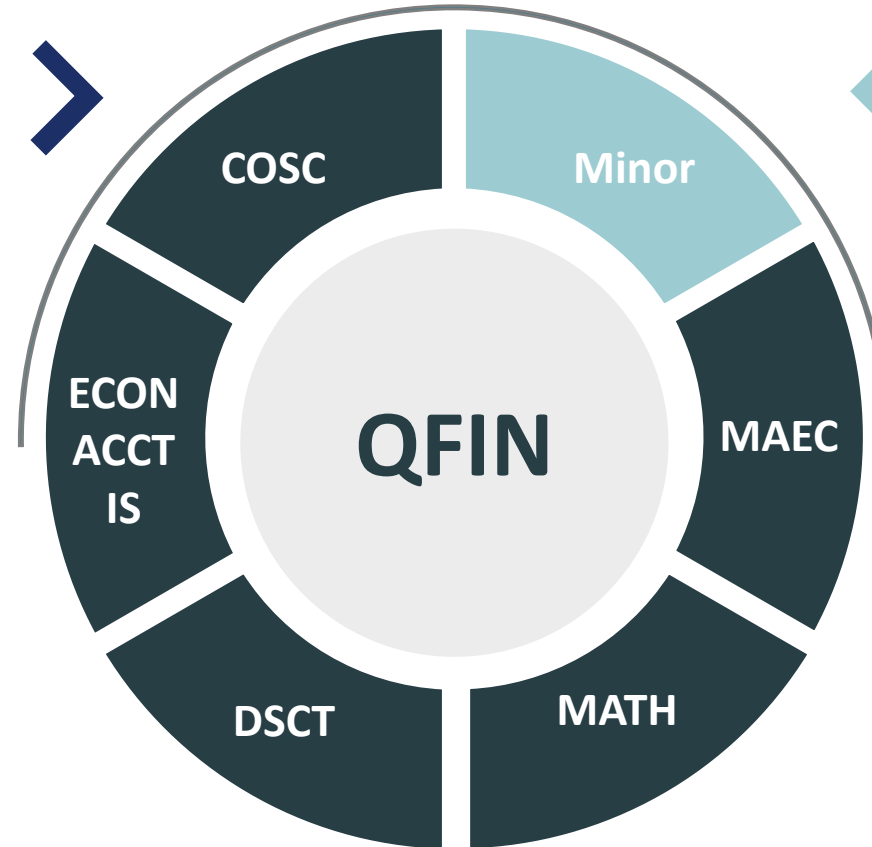
Additional Majors & Minor Programs

Declaring additional major is possible

Additional Major Combinations

QFIN + ACCT [SBM]	1
QFIN + COSC [SENG] + MATH [SSCI]	2
QFIN + COSC [SENG]	31
QFIN + DSCT [SSCI]	1
QFIN + ECON [SBM]	1
QFIN + IS [SBM]	2
QFIN + MAEC [Joint-School]	1
QFIN + MATH [SSCI]	9
Total:	48

SBM: School of Business and Management
SSCI: School of Science
SENG: School of Engineering



25 Minor Programs Available

MATH, Actuarial Mathematics, Info Tech, Big Data Technology, and Humanities are popular minors among QFIN students

Flexible Curriculum: provide flexibility for students to pursue their other interests, such as declaring additional major/minor



QFIN Students' Life

QFIN Extra-Curricular Activities

SEP

- QFIN Orientation Day
- QFIN Peer Mentoring Program: Kick-off
- QFIN Career Mentorship Program (CMP): Kick-off
- QFIN x SGFN Speaker Series
- Alumni Sharing cum Practical Demonstration on Essential Market Tools
- Finance Workshop Series

FEB

- QFIN CMP: BBQ
- QFIN x SGFN Speaker Series
- QFIN Peer Mentoring Program: Resume Review
- Finance Leaders Forum (New – TBC)
- Alumni Sharing cum Practical Demonstration on Essential Market Tools
- Finance Sports Day

OCT

- QFIN CMP: Mock Interview and CV Workshop
- QFIN x SGFN Speaker Series
- QFIN Peer Mentoring Program: Resume Review
- Finance Workshop Series

MAR

- QFIN CMP: Speed Networking
- QFIN x SGFN Speaker Series
- QFIN Student-Alumni Event
- Finance Leaders Forum (New – TBC)

NOV

- QFIN x SGFN Speaker Series
- Cross Programs Event
- QFIN Peer Mentoring Program: Resume Review

APR
MAY

- QFIN Senior Student Sharing
- QFIN Graduation Dinner (for final year students)

DEC
JAN

- QFIN Cross-cohort X-citement
- QFIN CMP: Presentation Skills Workshop



Finance Talks / Seminars / Workshops

QFIN will collaborate with other programs to offer different sessions to students, to expand students' knowledge



ALUMNI SHARING SESSION 2023-24

CRAFTING WINNING STRATEGIES

Jay Lam, A distinguished graduate in Quantitative Finance from the prestigious HKUST in 2018. With an illustrious career spanning Deutsche Bank, Goldman Sachs, Jiffries, and HSBC, he's garnered profound insights from global financial titans. Presently excelling as a proprietary trader at XY Capital, his strategic brilliance navigates the complexities of modern financial markets.

STEP INSIDE WALL STREET
Gain exclusive insights from a former Goldman Sachs & Deutsche Bank trader on the real-life dynamics of proprietary trading.

PYTHON, BBG & PROFITS
Learn how to supercharge your trading strategy using Python and Bloomberg terminal straight from a seasoned industry pro.

UNVEIL BANKING ROLES
Discover the unique facets of various roles in the banking world as our expert trader walks you through his journey.



FINANCE WORKSHOP SERIES 2023-24

MODULE 1: JOB SEARCH

SEPTEMBER 25, 2023 (MON)
18:15 - 19:45 | LSK 1001

QFIN and SGFN Speaker Series 2021-2022

Speaker:
Calvin Lee KWAN
Head of Sustainability & Risk Governance, Link REIT
Adjunct Associate Professor, HKUST



About the Speaker Series

The QFIN and SGFN Speaker Series 2021-2022 is jointly arranged by the BSc in Quantitative Finance and BSc in Sustainable and Green Finance.

1st Session

Alumni Sharing

Our alumni are successful entrepreneurs, who are eager to share and have passion to inspire our students



QFIN Peer Mentorship Program



BSc in
Quantitative Finance



Mentor: Year 3 or 4

Mentee: Year 1 or 2

QFIN Career Mentorship Program (CMP)

Our prestigious mentors are successful industry practitioners who want to help our students

- Head, Fixed Income
- Head, Regional Oversight and Governance
- Group Chief Executive Officer
- Managing Director
- APAC Head, Digital and Distribution
- Director, Global Functions Compliance
- Regional Head, Traded Risk



- Chief Compliance Officer
- Executive Director
- Partner & Co-Chief Investment Officer
- Deputy Head, Business Solution
- Managing Director/Head, Institutional Business
- Chief Investment Officer
- Director, Digital & Transformation
- Deputy Group Chief Executive Officer



Finance Sports Day

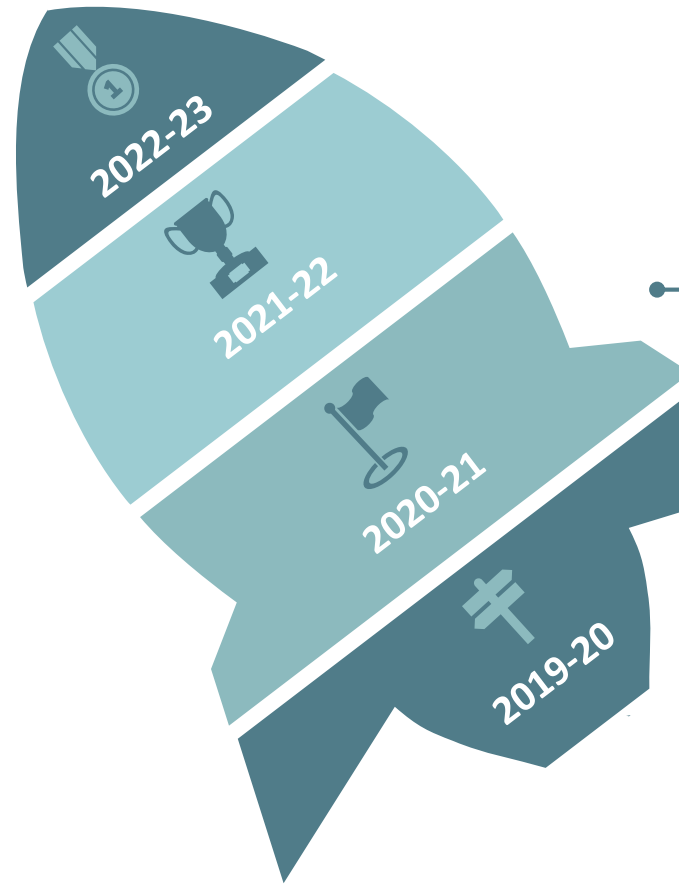
To bring QFIN students, professors, faculty members and PhD students together to the field and create an opportunity for students to see a different side of each other



ANNUAL SPORTS DAY



QFIN Students' Achievements



CFA Institute Research Challenge (HK Local)
 2019-20: Champion
 2017-18: Champion
 2016-17: Champion
 2015-16: Champion
 2014-15: Champion
 2012-13: Champion

2023

FOAHK 2023 Case Competition – Sustainable Portfolio Management [Champion]
 UBS Investment Banking Case Challenge [Champion]
 WorldQuant Brain [Gold Medal]



2022

HSBC Life Insurance Innovation Competition [1st Runner-up]
 HackUST 2022 [Winning Team]
 Annual Value Investing Challenge [Champion]
 Investment Research Competition [1st Runner-up]



2021

MBS Case Competition [Champion]
 Jane Street Virtual Electronic Trading Challenge [Overall Winning Team]
 2021 Citi Treasury and Trade Solutions Case Competition [2nd National Winner in Indonesia]
 LEAP @ HKUST Gender Diversity Case Competition [Champion]
 hackUST2021 [Xiaomi Smart City IoT Award & Final Excellence Award]
 China “Internet+” Innovation & Entrepreneurship Competition [Gold Award]
 FDMT Innovative Internship Challenge [1st Runner-up]



2020

HK CodeIT Suisse [Team Champion]
 The International Collegiate Programming Contest: Asia Macau Site [Bronze]
 Blockchain Business Model Challenge [1st Runner-up]
 Hong Kong Blockchain Olympiad [Gold Medal]
 International Blockchain Olympiad [Gold Medal]
CFA Institute Research Challenge [HK Champion]
 HKFPS Innovation for Good CSV Challenge [Best Video Award]



2019

Oikos Hong Kong Sustainability Impact Case Competition [Champion]
 The International Collegiate Programming Contest: Asia Taipei-Hsinchu Site [Silver]
 JP Morgan Asset and Wealth Management Challenge [Regional 1st Runner-up]
 HSBC/HKU Hong Kong Business Case Competition [1st Runner-up]



QFIN Career Prospects

Most Common Types of Job

Banking / Finance



Others



QFIN graduates pursued further studies at top universities, such as MIT, Princeton, Columbia, Carnegie Mellon (Ph.D. in Machine Learning), U of Chicago, Yale (Ph.D. in Economics), etc...

Further Studies (QFIN, Class of 2023) [Data collected in June 2023]

- Princeton University: MFin program
- University of Waterloo: MMath Computer Science
- Carnegie Mellon University: Master in Computational Finance (New York Campus)

Further Studies (QFIN, Class of 2022) [Data collected in June 2022]

- Cornell University: Msc in Applied Economics and Management
- Imperial College London: MSc in Finance
- University of Chicago: Master in Computer Science
- University of Oxford: MSc in Advanced Computer Science

Further Studies (QFIN, Class of 2021) [Data collected in June 2021]

- LSE: MSc Risk and Finance
- MIT: Master in Finance
- London Business School: Master in Financial Analysis
- University of Chicago: Master in Financial Mathematics



Graduate Job Offers (QFIN, Class of 2023) [Data collected in Jun 2023]

- Bank of America: Trader
- Barclays: Global Market Analyst
- BlackRock: Analyst
- Citi Private Bank: Analyst
- CA-CIB: Market Risk Management Trainee
- J.P. Morgan: Analyst
- Jane Street: Quantitative Trader
- Morgan Stanley: Analyst
- Nomura

Graduate Job Offers (QFIN, Class of 2022) [Data collected in Jun 2022]

- ANZ: FX Trading Analyst
- CICC: Analyst
- Credit Suisse: APAC Markets, Electronic Trading, APAC Solution Sales
- Fidelity Investments: Research Associate, Investment Analyst
- Goldman Sachs: Investment Bank, FX Option Trading
- Jane Street: Trader
- Morgan Stanley: Investment Banking Analyst

Graduate Job Offers (QFIN, Class of 2021) [Data collected in Jun 2021]

- XY Capital: Quant Analyst
- Morgan Stanley: IBD, Trading Analyst
- BofA: Analyst
- Royal Bank of Canada: Junior Equity Analyst
- Rockpool Capital: Junior Trader
- Credit Suisse: Analyst
- J.P. Morgan: Markets Analyst
- TR Capital: PE Analyst
- Bank of America: Graduate Analyst
- CICC: Hedge Fund Research Analyst
- Bank of America Merrill Lynch: Global Markets Analyst

QFIN Students - Internships

Gap Semester Examples	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022
Join internship or co-op program	10	3	7	6	10	12	9	16
Join visiting program abroad	1		1		1	2		1
Others	1	2	2			1	2	
Total	12	5	10	6	11	15	11	17
Others include:								
• Run a business								
• Military service								

On average QFIN students completed 3+ internships before graduations

2023 Summer Internships (Year 2-4 students)		
Albourne Partners (Asia) Limited	H.H. Lam, & Co	Orient Securities International
Ally Bridge Group (HK) Limited	HaiTong International	Palazzari & Turries
Antarctica Asset Management	Hang Seng	Penjing Asset Management (Asia) Ltd
Bank of America	Hang Seng Indexes Company	Preface
Barclays Capital Asia Limited	HKSAR	Prive Technologies
BDO Limited	Hong Kong Council of Social Services	Rhee Capital
BlackRock	Hong Kong Monetary Authority	Rockpool Capital Limited
BNP Paribas	HSBC	Season Financial Holdings Limited
BOCI	Huatai Securities Asset Management	Set Sail Venture Limited
BofA Securities, Inc.	Huatai United Securities	Shenwan Hongyuan Securities
CBH Asia Limited	Huaxi Securities	Tianjin Minsheng Asset Management Co.,Ltd
CGS International Holdings Limited	Insurance Authority	Topsperity Securities
China International Capital Corporation (CICC)	Kaiyuan Securities	Tradart Asset Management Co. Ltd.
China Securities	Kingkey Privilege Wealth Management Limited	United Overseas Bank
Chuan Tai Accounting Firm	Legend Arb Financial Group Limited	UOB
CITIC CLSA	Morgan Stanley	Wealth Management Cube, Wellchamp Group
DBS Bank	MUFG Bank	Wisdom Asset Management Limited
EY	Nayt Technologies	Wizpresso Limited
GLP Capital Partners	Noah International	Yueda Private Equity
Greenhill & Co.	Numerix	Zhongtai Securities Co., Ltd
Guotai Junan Securities Co., Ltd.	Optiver	
	Ori Capital	

QFIN Student-Alumni Network



BSc in
Quantitative Finance



QFIN Facebook



QFIN Instagram

QFIN LinkedIn

HKUST Quantitative Finance

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The BSc in Quantitative Finance (QFIN) program is designed to prepare students for careers in the fi

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HKUST Quantitative Finance
Alumni Group

Unlisted group

Earn an Active Group badge

480 members including Pak Yin Tsang and 174 other connections

[Invite](#) [Share](#)

Home My Network Post Notifications 5 Jobs

How to join QFIN program?

JUPAS [JS5332] Minimum Admissions Requirements

4 English	3 Chinese	3 Math (Comp)
Attained CSD	3 Elective 1	3 Elective 2 / M1 / M2

JUPAS [JS5332] Subject Weighting

English	x 2
Math (Comp)	x 2
Better of Best 3 other subjects# Or Best of M1 / M2 / Econ / Chem / Phys	x 1
And Best 2 other subjects#	x 1.5
	x 1

#Remarks: Best 2/ best 3 subjects include core subjects, category A electives and M1/M2

JUPAS [JS5332] Admission Figures (2023 Intake)

Highest Attainable	Median	Lower Quartile	Lower Quartile Per-Subject Average Score
72.25	62.5	60.3	7.1

Program-based admission (PBA)

JUPAS + Non-JUPAS [Quota: 20]



INTERVIEW IS
REQUIRED



School-based admission

Major Selection Exercise (MSE) [Quota: 20]

International Qualifications	Specific Subject Requirements	Score Reference
IBDP	HL Math	40+
GCEAL	Further Math	A*A*A* / A*A*A
SAT / AP	Math II / AP Calculus BC	1470+
Other qualifications	Senior Level Math	

MSE: Requirements, Ranking Criteria

- CGA 3.0 or above
- B- or above in a MATH course (MATH1012/1013/1020/1023)
- C+ or above in LANG1401/1402; B- or above in LANG1403/1404
- Holistic assessment based on CGA, selected course performance, CV profile, interview performance, personal statement

Example

BSc (QFIN)	Total	2022 PBA	2022 Fall MSE	2023 Spring MSE	2023 Fall MSE
2022 Intake	40	17	2	18	3

Who should apply to join QFIN?

Excellent Work Ethic

Maturity

Teamwork

Positive Attitude

Integrity/Honesty

Courtesy

- Students with a strong desire to work in the finance industry
- Students with strong mathematical backgrounds
- Students with an exceptional analytical and communication skills



Explore your Passion



Build your network



Persist in something
for a long time



Pay more attention
to communication
skills

But don't put too much pressure your self and have fun

Reference Links and Materials

- QFIN Curriculum & Pathway: <https://fina.hkust.edu.hk/programs/bsc-in-quantitative-finance/bsc-qf-curriculum>
- HKUST Majors & Minors: <https://prog-crs.hkust.edu.hk/ugprog>
- SBM Major Declaration: <https://bmundergrad.hkust.edu.hk/academics/academic-planning/major-selections>
- Metro Education Plus (Metro Radio) Interview (#科大神科qfin):
<https://www.facebook.com/hashtag/%E7%A7%91%E5%A4%A7%E7%A5%9E%E7%A7%91qfin>
- QFIN Students and Alumni Sharing: <https://fina.hkust.edu.hk/programs/bsc-in-quantitative-finance/bsc-qf-student>
- Futurepreneur is HERE: BSc in Quantitative Finance (2022)
- BBA in Finance / BSc in Quantitative Finance Program Talk (Sep 2020):
<https://www.youtube.com/watch?v=KLwM3fEJdJU&feature=youtu.be>
- SBM webinar series 2019: BBA Finance and BSc Quantitative Finance Program Highlights:
<https://www.youtube.com/watch?v=ksxyhz4rAUo&feature=youtu.be>
- HKUST Rankings: <https://join.ust.hk/why-hkust>

