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Associate Professor of Finance, LKCSB

Instructor for:

Real Estate Investments
 & Finance (FNCE231)

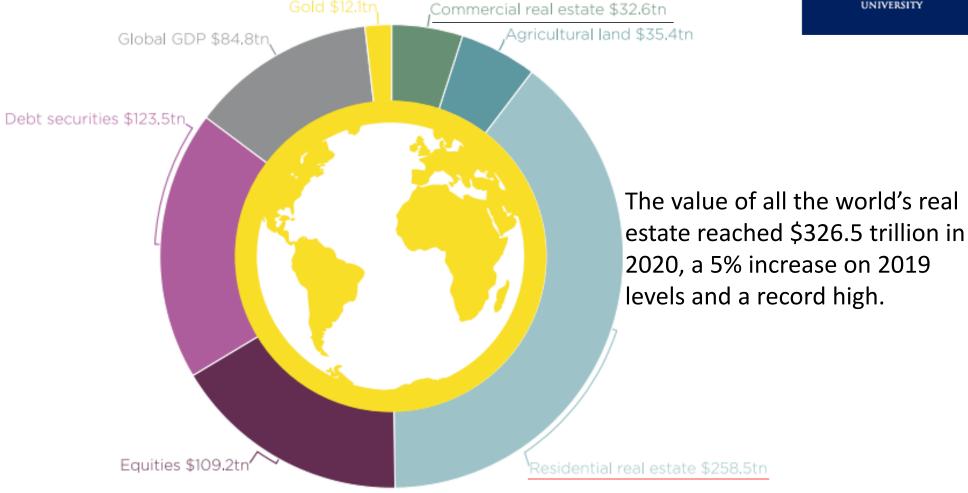


Why Real Estate?

SIZE OF COMMON RE ASSET CATEGORIES

2020 Global real estate universe in comparison





Source: Savills Research

Real estate investments in APAC have been growing well over the years

Figure 15: Asia Pacific Regional Investment Volume



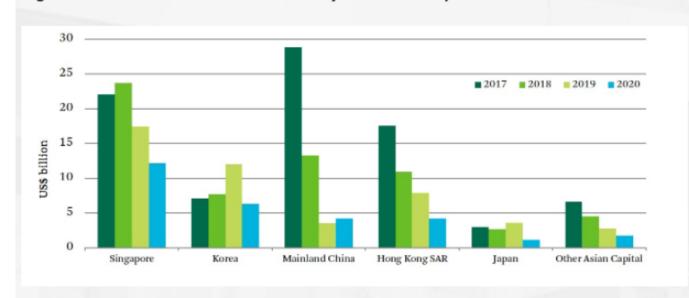
SINGAPORE NEEDS MORE REAL ESTATE PROFESSIONALS FOR INVESTMENTS AND FINANCE

Source: Asia Pacific Real Estate Market Outlook 2022 CBRE Singapore, https://www.cbre.com.sg/insights/reports/asia-pacific-real-estate-market-outlook-2022

Singapore Retains Top Position as the Most Active Source of Asian Outbound Capital for Real Estate in 2020

Singapore, 25 February 2021 – According to new data published by CBRE, Singapore topped Asian outbound real estate investment for the third consecutive year, accounting for US\$12.1 billion worth of deals in 2020 – albeit reflecting an approximate 31% y-o-y decline from US\$17 billion registered in 2019.

Figure 1: Asian Outbound Investment by Source of Capital



Note: Transactions include deals in the Office, Retail, Mixed, Industrial, Hotel, Residential and Other commercial sectors. Development sites are excluded.

Source: RCA, CBRE Research, February 2021.

Singaporean Capital Led Asian Outbound Real Estate Investment Rebounds in 2021

Asian outbound commercial real estate investment surged 69% year-on-year (y-o-y) in 2021 to US\$54.6 billion, surpassing 2019's pre-pandemic volume, according to data from CBRE.

US\$32 billion deployed by Singapore-based investors marking 164% y-o-y growth, with United States as Top Country for Outbound Investment from Asia

Singapore - March 24, 2022 - Asian outbound commercial real estate investment surged 69% year-on-year (y-o-y) in 2021 to US\$54.6 billion, surpassing 2019's pre-pandemic volume, according to data from CBRE.



Singaporean capital dominated Asian outbound investment, with six out of the top 10 outbound transactions. Singaporean investors deployed US\$32 billion abroad, marking a significant increase of 164% y-o-y. The U.S. was the preferred destination for Singaporean capital, with appetite strongest for logistics portfolios. Hong Kong investors also stepped up purchasing as the second most active source of Asian outbound capital with US\$6.7

Source: CBRE Website - www.cbre.com.sg/properties, March 2022

Singapore is one of Asia's largest REIT & Property Trusts markets





No. of trusts	Market Cap	Avg. Div Yield	Avg. P/B	1 yr SDAV
42	S\$99B	7.5%	0.78x	S\$263m

- Singapore has 42 REITs & Property Trusts with a combined market capitalisation of \$\$99B, representing c.12% of Singapore's overall listed stocks
- SREITs have a regulated gearing ratio limit of 50%
- The REITs & Property Trusts offer wide diversity across property sub-segments (chart on the right)
- REIT Indices:
 - FTSE ST REIT Index: 34 out of the 42 trusts represented
 - iEdge S-REIT Index: 36 out of the 42 trusts represented

Key Statistics At a Glance

- Average dividend yield of 7.5%
- FTSE ST REIT Index 10-year total return of 68.5%
- Average gearing ratio of 37%*
- 10 year market cap CAGR of 13%

TRUSTS HAVE DIVERSIFIED PROPERTY

Trusts that have Pan Asian Exposure (based on asset portfolio)

Refer to page 19, for trusts with exposure to non-Asian markets.



For more about REITs, read more.



Note: Property Trusts are Business Trusts that have property assets. For more details on Business Trusts, click here. Some of these include Stapled Trusts which are **SGX** Group stapled securities. Stapled securities are created when two securities with different legal structures are traded as one, retaining the rights or obligations attached to each of the individual security. See page 16 for list of REITs, property trusts, and stapled securities.

Source: SGX, Chartbook: SREITS & Property Trusts, Dec 2022

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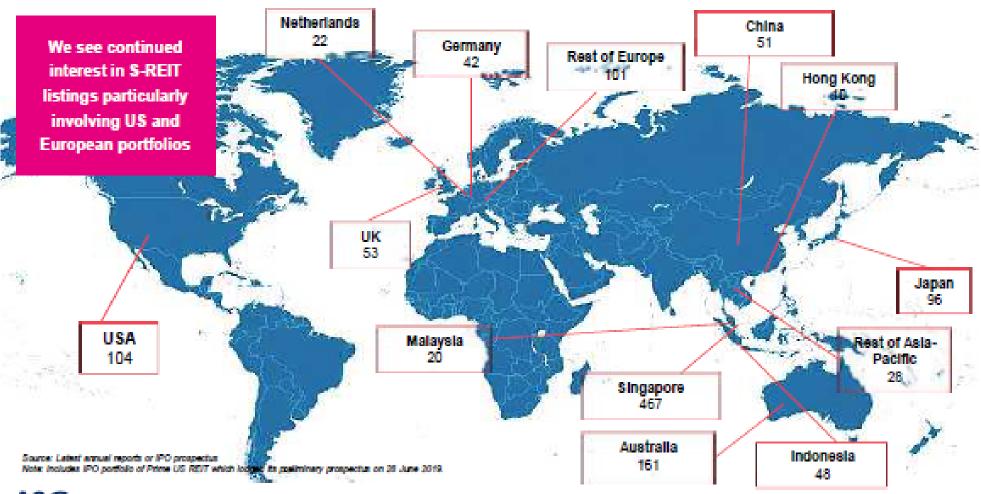
OVER 90% (37) OF SINGAPORE REITS & PROPERTY TRUSTS HOLD OVERSEAS ASSETS SUB-SEGMENTS (% BY TRUST COUNT) ■ Industrial REITs 20% ■ Hospitality REITs Diversified REITs ■ Retail REITs 13% 17 Office REITs ■ Specialized REITs ■ Health Care REITs ■ Singapore ■ Overseas ■ Singapore & Overseas

^{*}Based on latest quarter filings Source: Bloomberg, SGX Securities, data as of 30 November 2022.

S-REITS have invested globally...

A Global REITs Hub

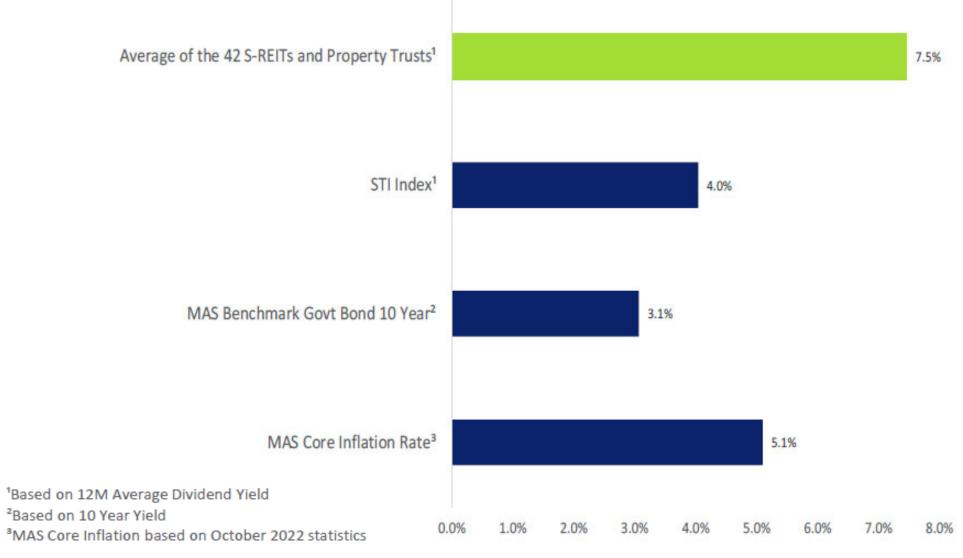
Geographic spread showing total number of assets owned by S-REITs in each relevant jurisdiction



A&G

Source: REITAS Conference 2 July 2019

SREITS & Property Trusts have Highest Yields vs Other Asset Classes



Source: SGX, Chartbook: SREITS & Property Trusts, Dec 2022

New REITS MARKET IN CHINA

DNE GROUP GETS NOD FOR CHINA'S FIRST PRIVATELY-SPONSORED REIT

2022/09/04 BY IRIS HONG — LEAVE A COMMENT

JD.COM GETS NOD TO LIST \$224M WAREHOUSE REIT ON SHANGHAI EXCHANGE

2022/12/29 BY GREG ISAACSON — LEAVE A COMMENT

- By the end of Nov 2022, 24 REITs had been approved while 22 were floated on the Shanghai and Shenzhen stock exchanges.
- About 85 percent of China's public REITs involve infrastructure themes, including highways, industrial parks, and warehousing and logistics.

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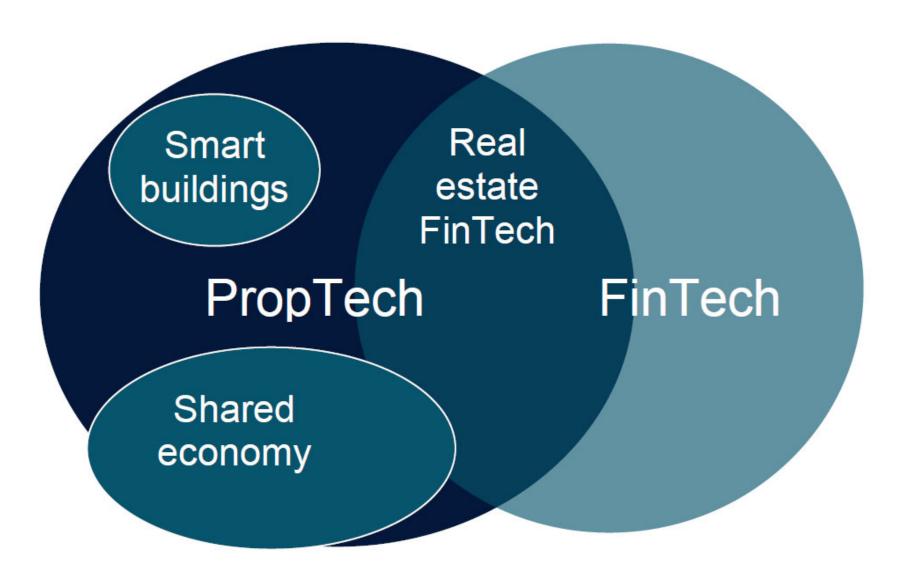
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Trend: Sustainability

- UN Environment Global Status Report of 2021 shows that buildings and construction account for
 - 36 percent of global final energy consumption
 - 37 percent of energy-related carbon emissions.

- How to reduce energy consumption and carbon emission for real estate industry?
 - Technology
 - Government policy: tax and subsidy
 - Green Finance

Trend: PropTech

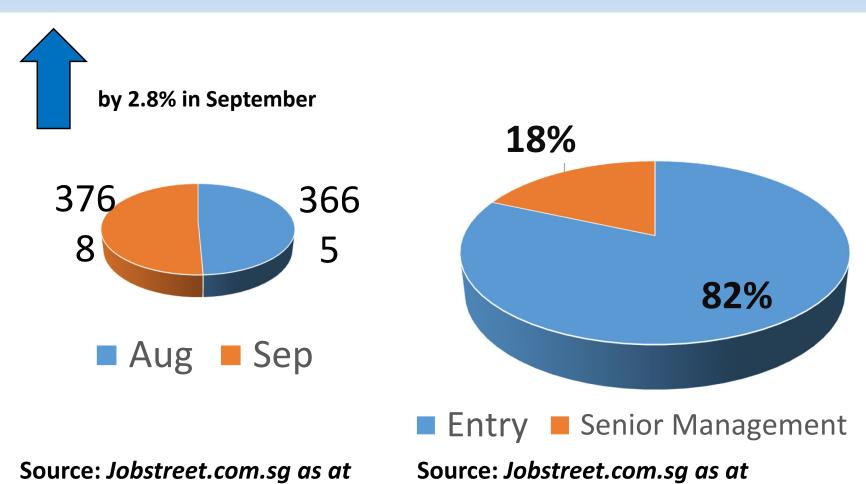


Source: Baum (2017)

Trend: PropTech

- Opendoor: instant buyer
 - Went public on Dec 21, 2020 by merging with the SPAC Social Capital Hedosophia Holdings II
 - 4.8 billion valuation, 1 billion cash injection
- Offerpad: instant buyer
 - Offerpad went public on Sept 2, 2021 by merging with the SPAC Supernova Partners Acquisition Partners
 - 2.7 billion valuation, 600 million cash injection
- WeWork: co-working space
 - Went public on Oct 21, 2021 by merging with the SPAC BowX
 - 9 billion valuation, 1.3 billion cash injection
- Sonder: short-rentals for hotels and apartment
 - Went public on Jan 19, 2022 by merging with the SPAC Gores Metropoulus II
 - 1.925 billion valuation, 450 million cash injection

AT A GLANCE: FULL-TIME **REAL ESTATE JOBS**



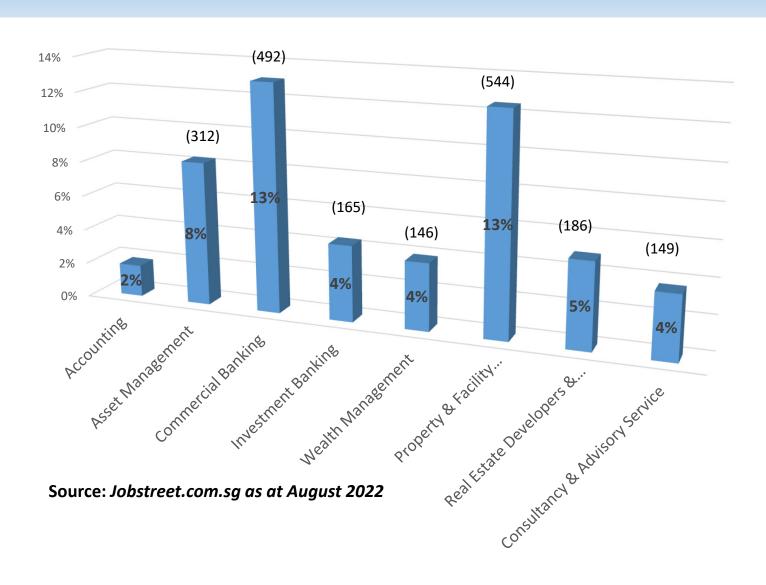
Source: Jobstreet.com.sg as at

Sep 2022 Aug 2022

Total number of jobs advertised in August :

3,768 (Full time jobs)

2,064 or 55% are Real Estate functions



AVERAGE SALARY BY INDUSTRY & JOB FUNCTIONS (ENTRY LEVEL)

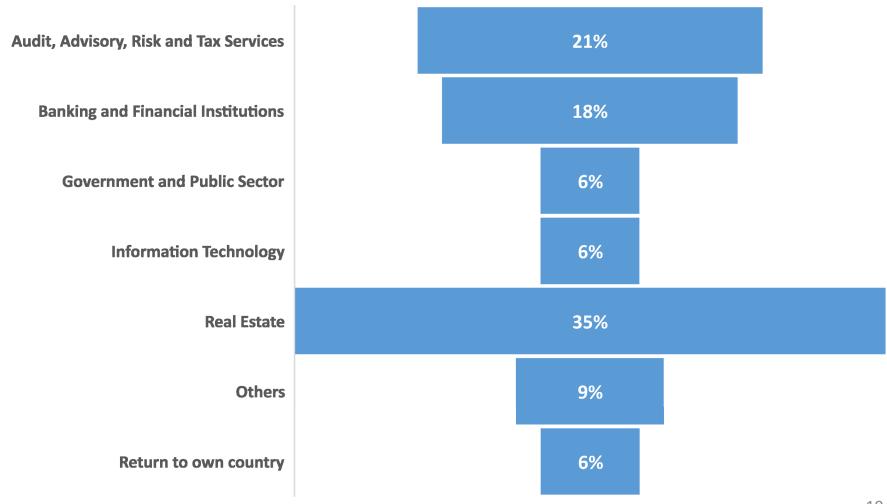


Source: Jobstreet.com.sg as at

August 2022

RET UG Graduates Profile

Working Experience 34 Graduates



Companies our graduates **Have Joined**

OXFORD









Real Estate Investing

Project Managers and **Analysts** for Real Estate Development **Projects**

Economists/Fin ance Specialists for Banks, REITs, Real Estate Firms, Sovereign Wealth Funds













*These are not exhaustive

Companies our graduates **Have Joined**





























Past & Potential Employers of SMU Students And Interns

- Ascendas-Singbridge
- Capitaland Ltd, Capitaland Mall (Asia)
- Allen & Gledhill
- CB Richard Ellis
- City Development
- Citibank (Investment Banking)
- Colliers International
- Cushman and Wakefield
- DBS
- Far East Organization
- Frasers Property
- Homestead Properties Pte Ltd
- IRAS
- Jones Lang LaSalle
- Keppel Capital
- Knight Frank
- Logos South East Asia

- Mapletree Investments, Mapletree Commercial Trust, Mapletree Industrial Trusts, Mapletree North China Trusts, Mapletree Logistics Trust
- New World Development Company Ltd (Hong Kong)
- Pontiac Land
- PT Metro Realty (Indonesia)
- Roxy-Pacific
- SLA
- Sing Haiyi Group
- World Class Global
- YTL Starhill Global REIT Management Ltd.
- ZACD Group
- Etc., etc., etc.

















Contact: Ms Chai Chiew Har (Office of Career Services in SMU) chchai@smu.edu.sg

Launch of Mapletree Real Estate Programme



In 2017, Mapletree Real Estate Programme was established at SMU through S\$3 million endowed gift; SMU to offer specialization in Real Estate Investment & Finance from August 2018

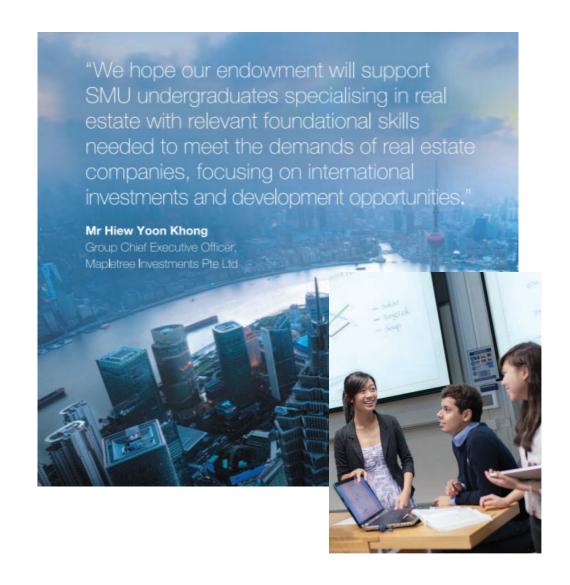
- Mapletree Professorship
- Mapletree Awards

- Business Study Trips
- Mapletree Speaker Events

The SMU Real Estate Track

Students will leverage on the fundamentals of Finance, Business and/or Economics and acquire the quantitative and qualitative tools necessary for variety of job roles in the sector.

The track prepares SMU undergraduates to be well-equipped with foundational skills needed for real estate companies and pursue opportunities in the exciting and fast-growing sector in the region.



Members of Advisory Board

Name	Title
01. Ms Wendy Koh	Group Chief Financial Officer, Mapletree Investments
(Chairman)	Former Co-head, Asia-Pacific Property Research, Citi Investment Research
02. Prof Bert De Reyck	Dean, Lee Kong Chian School of Business, SMU
(Vice Chairman)	
03. Mr Pok Soy Yoong	Retired Ernst & Young Tax Partner
(Member)	Former Board Member of IRAS
04. Mr Ng Lang	CEO, Land Transport Authority
(Member)	Former CEO of Jurong Town Corporation, Urban Redevelopment Authority and of National Parks Board
05. Mr Wen Khai Meng	Senior Adviser of Group Strategy, Capitaland Group
(Member)	Former CEO of Capitaland Singapore
06. Ms Lock Yin Mei	Partner, Allen & Overy Singapore
(Member)	Former Board Member, Singapore Land Authority
07. Mrs Penny Goh	Senior Adviser of Allen & Gledhill Singapore
(Member)	Independent Director of Keppel Corporation Ltd
08. Prof Francis Koh	Emeritus Professor of Finance (Practice), SMU
(Member)	Independent Non-Executive Director of Manulife US REIT
09. Mr Michael Ngu	CEO, Architects 61
(Member)	
10. Ms Priya Kini	Managing Director and Head of Global Banking, Singapore, HSBC
(Member)	
11. Mr Wan Kwong Weng	Group Chief Corporate Office, Mapletree Investments
(Member & Secretary)	

SMU Real Estate Track: Distinguishing Features

Focus on "Real Estate Investments and Finance":

Public Equities	Private Equities
Public Debt	Private Debt

- ➤ Develop an appreciation of the macro factors that influence real estate market risks and returns
- ➤ Overseas Study Trip: Expose students to the opportunities and risks of international real estate investing e.g., Shanghai, Ho Chi Minh City, Seoul, Hong Kong, etc.
- Local Study Trip: Visit major players in the real estate industry and related government bodies in Singapore e.g., Funan Centre (LYF), URA, JTC, Mapletree Business Centre and Ascendas, etc.
- ➤ Mentorship Programme
- Internship opportunities offered by Mapletree, major real estate industry players, legal firms, banks and others
- ➤ Join the Student Club, "SMUREAL"
- Attend talks and forums, as well as other student activities







What's Special about the Track?

Mapletree Awards

❖ S\$40,000 annually to fund up to 5 non-bonded awards of S\$8,000 each

Mapletree Scholarships (WEF AY2021)

❖ \$\$40,000 annually to fund up to 2 non-bonded scholarships of \$10,000 each for the recipients' third and fourth years of study



❖ Funds available to plan and support study trips (local and overseas) to visit real estate developments, industrial estates and commercial properties

Internships

Internships available for students to be interned in real estate companies, including Mapletree companies, REITs etc.

Mapletree Speaker Events

- Annual Real Estate Lecture
- Occasional Real Estate Talks







Real Estate Track Curriculum Structure

Track Requirements 5 CUs

Compulsory (3 courses)

- 1. Real Estate Economics Li Jing
- 2. Real Estate Investments & Finance Song Changcheng
- 3. Risk & Regulation in Real Estate Edward Ti
 LGST 210 will be offered every two years starting AY22/23, Jan 2023

Electives (Choose 2 courses)

- Real Estate Valuation and Taxation Ang Sock Tiang
- Urban Economics and Policy Ma Lin
- Real Estate Development Josh Ng
- Project Financing Davin Wang
- Analytics for Finance & Real Estate Amit Kumar

More electives may be offered based on demand and availability of instructors. Other new electives may be developed under SMU-X

Mapletree Undergraduate Scholarship: Real Estate Track

Established in 2021, the Mapletree Scholarship is available to full-time undergraduates at the Singapore Management University. It is aimed at motivating outstanding undergraduates who have declared Real Estate Track, to achieve academic excellence and to accord appropriate recognition to the recipients of the Scholarship for their accomplishments.

Criteria

- Full-time third year undergraduate students enrolled in the Bachelor of Business Management or Bachelor of Science (Economics) programme and who have declared the Real Estate Track starting from Academic Year 2022-23.
- Any nationality (priority for Singapore Citizens and Singapore Permanent Residents)
- Good academic results (minimum cumulative GPA of 3.40)
- Demonstrate high standards of personal conduct and remains active in community service and co-curricular activities.
- Special consideration will be given to students in financial need.

Mapletree Awards: Real Estate Track

About the Award

Supported by Mapletree Investments Pte Ltd, the Mapletree Award is given annually to outstanding full-time undergraduate students in Finance and/or Economics majors in Real Estate Track offered by the Lee Kong Chian School of Business and School of Economics. The award is to inspire the most outstanding students in Real Estate Track to greater heights of academic and practical excellence.

Eligibility Criteria

- •Full-time undergraduate who has completed Real Estate Track
- •Possesses good academic results with a minimum cumulative GPA of 3.40
- Shows strong interest and aptitude in Real Estate Investments and Finance
- •Exhibits good leadership skills and character as well as exemplary conduct
- Participated in Real Estate Study Trip and Real Estate Internship

When to Apply

- Applications for the Undergraduate Scholarship will be sent out during January, start of the year.
- Applications for the Mapletree Awards will be called during the May of every year after the Term 2 results are out.
- For enquiries, email to Hui Ling @ hlchong@smu.edu.sg.

Key Events

Aug 2018 Sep 2018

Oct 2018

Nov 2018

Feb 2019 May 2019

- ❖ Launch of Real Estate Track (RET)
- Local Study Trip to Mapletree
 Business City
- Study Trip to Shanghai & Hangzhou
- Fireside Chat with Mapletree Group CEO
- InauguralMapletreeAnnual Lecture
- Inaugural Mapletree-SMU Real Estate Forum
- ❖ Launch of SMUREAL Club

Oct

2020

- Study Trip to Ho Chi Minh City
- Board Members Reception with RET Student

Aug 2019

InauguralMapletreeAwardspresentation

- Oct 2019
- ❖ Study Trip to Seoul
- 2nd Mapletree Annual Lecture
- ❖ Fairmont Hotel Visit (Sg)

- Nov 2019
- Corenet Young Leader Mentor xChange
- 2nd Mapletree Awards recipients announced

Jun

2020

- ❖ S-REITS talk by REITAS
- 2nd Mapletree Real Estate Forum

- Mar 2021
- ❖ 3rd Mapletree Annual Lecture

Jan 2022

❖ 3rd Mapletree Real Estate Forum Oct 2022

Study Trip to Vietnam

Feb - Apr 2023

Leadership SeriesSeminars

Study Trip to Shanghai & Hangzhou (7 to 13 Oct 2018)

Study Trip to Ho Chi Minh City (5 to 10 May 2019)









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Mapletree Vietnam & SC VivoCity

Mapletree & VivoCity Shanghai

Study Trip to Seoul (6 to 11 Oct 2019)







JLL Korea

Cushman & Wakefield Korea

Study Trip to Ho Chi Minh City (2 to 7 Oct 2022)



PWC Vietnam

HSBC Vietnam

Inaugural Mapletree Annual Lecture (26 Nov 2018)



2nd Mapletree Annual Lecture (31 Oct 2019)





3rd Mapletree Annual Lecture (31 Mar 2021)

Mapletree Annual Lecture (Webinar)

mapletree

E. Kazis & B. Schore Professor of Real Estate

Graduate School of Business, Columbia University





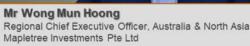
Professor Melvyn Teo Deputy Dean (Faculty and Research) Singapore Management University



Ms Wendy Koh Group Chief Financial Officer, Mapletree Investments Pte Ltd and Chairman, SMU Advisory Board for Real Estate Programme









Managing Director and Head of Global Banking Singapore The Hongkong and Shanghai Banking Corporation Limited

Fireside Chat with Group CEO of Mapletree Investments, Mr Hiew Yoon Khong (22 Nov 2018)





Inaugural Mapletree-SMU Real Estate Forum (21 Feb 2019)





2nd Mapletree Real Estate Forum (31 Oct 2020)

Mapletree Real Estate Forum (Webinar)





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3rd Mapletree Real Estate Forum (20 Jan 2022)



Mapletree Leadership Series



(10 March 2022)



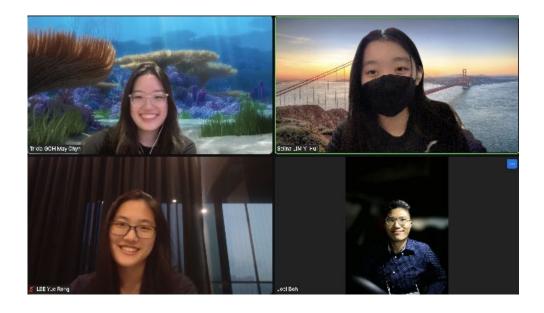
ight of NTU Development Office to ET) design and its construction This allowed the Roof of NTU in only 13 workmen on site and the site of the result of the

(17 March 2022)

Our First Mentor-Mentee Scheme – Launched on 3 March 2022

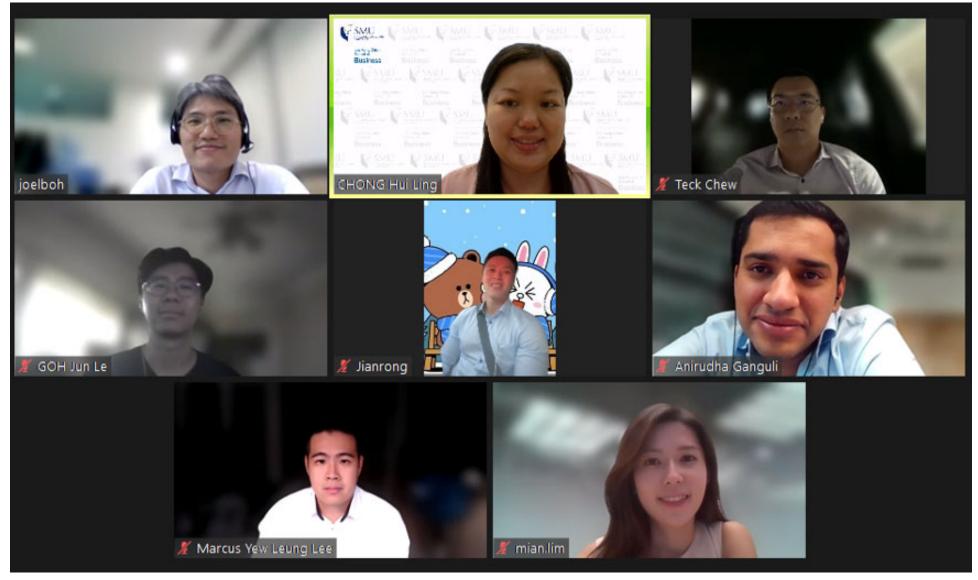


Mentor Rachel: Bradley + Camille



Mentor Joel: Tricia + Selina

Our Second mentor-Mentee Scheme – 11 Jan 2023 (Mentor Session)





SMUREAL Club Networking Session

The 1st f2f SMUREAL Club Networking session was held on the 6 July 2022, well attended by 14 students and 9 alumni.









SMUREAL Club Networking Session

The 2nd f2f SMUREAL Club Networking session was held on the 5 Dec 2022, well attended by over 70 students and alumni.



Other Events

- Real Estate Study Trip to Korea
- Mapletree Leadership Series (March April 2023)

Mapletree Speaker Series (Speakers lined up)

Topics	
Banking	 Priya Kini, Head of Global Banking, HSBC Singapore (24 Mar)
Private Equity	 Tan Peng Wei, Managing Director, Blackstone Singapore (30 Aug)
Infrastructure	 Premod P Thomas, CEO, Capital Insights Pte Ltd (Sep)

Q&A

Contact Us

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CHONG Hui Ling Senior Manager (Real Estate Track)

hlchong@smu.edu.sg / realestate@smu.edu.sg

Undergraduate Programmes

School of Business: lkcsb_ug@smu.edu.sg

School of Economics: <u>undergrad_econs@smu.edu.sg</u>

APPENDIX

*Important dates

- Last day to declare Real Estate track is on 2nd June 2023,
 12pm (Modified Term 2 of 2023-24)
 Penalty of \$10 e-dollars will be imposed if past deadline.
- Term 1, AY 2023-24 bidding periods are as below:
- <u>Senior bidding</u>: Monday, 26th June to Monday, 10th July (Round 1, 1A and 1B)
- Freshmen bidding: 30th July to 3rd August

SMU Real Estate Track : CORE UNITS – Course Outline

Real Estate Investments & Finance

- Real estate investments: public and private equity; public and private debt
- Valuation of real estate properties
- Evaluation of real estate projects and developments
- Financing of real estate: public and private equity; public and private debt
- Cost of capital

Real Estate Economics

- Demand and supply of housing
- House prices and real estate cycles
- Mortgage instruments, interest rates and default risks
- Global Financial Crisis and U.S Subprime Loans
- Local housing policy

Risk and Regulations in Real Estate

- Contract law, agency law and Tort
- Property law and titles
- Contract for sale and conveyancing process
- Property taxes
- Real estate financing, property loans and mortgage process
- Personal rights and proprietary rights
- Administration of Law and Equity
- Real Estate Investment Trust

SMU Real Estate Track : ELECTIVES – Course Outline

Real Estate Valuation & Taxation

- Various types & nature of real estate, legal Interest & characteristics of real estate market
- Needs and purpose of property valuation
- Concept of Value, Cost, Price and Market Value
- Factors that influence property values
- * Rationale in the use of valuation approaches and methodologies
- Key concepts in the Property Tax, Stamp Duty, Development Charge & Compulsory Acquisition
- Property tax payable, stamp duties payable & Development Charge calculations

Urban Economics & Policy

- Formation of Cities the economics of agglomeration
- The urban system, big & small cities, their functions & roles
- Internal spatial structure of a city & urban housing issues, including location & tenure choice
- Urban transportation the economics of traffic congestion
- Local public goods (Tiebout Model)
- Land use optimization, public finance & housing markets (Henry George Theorem)
- The economics of urban planning

SMU Real Estate Track : ELECTIVES – Course Outline

Real Estate Development

- Property development cycle
- Conception of the development project
- Feasibility study
- Project financing
- Project construction
- Real estate marketing
- Project completion
- Post-project management
- Exit strategies

Project Financing

- Financing of large scale projects
- Project cash flow
- Project risks
- Project structuring and term sheets
- One Belt One Road and potential for project financing

Analytics in Finance and Real Estate

- How big data can be applied in finance and real estate
- Randomized control trial, differences-in-differences, and regression discontinuity design
- Analyse cross sectional and panel data
- Machine learning methods and its application

Course Descriptions

Course Descriptions (1)

REAL ESTATE INVESTMENTS AND FINANCE

This course focuses on real estate investments and financing from a commercial perspective. It discusses the four quadrants for investments and financing – public debt, private debt, public equity and private equity employed by institutional investors. The course will evaluate real estate investments and financing in each of the four quadrants using a variety of techniques including discounted cash flows and capitalization rates. The course will also cover real estate investment trusts (REITs) and private equity real estate funds.

REAL ESTATE ECONOMICS

This course is designed as an introductory course to study housing finance systems and housing market outcomes. It provides an overview of real estate markets as well as public policies that affect these markets. The beginning of the course will focus on what determines house price movements (captured by house price indices) and the role of real estate cycles (including bubbles) in mortgage default. The course will then be devoted to analyzing mortgage instruments used to finance investments in real estate. This includes calculations of payment streams for different types of mortgages, consideration of different types of mortgage contracts that shift interest rate and default risk between lenders and borrowers, and the role of the secondary market for mortgage securities. Equipped with aforementioned skills, students taking this course should be able to develop an eye towards the role of housing and mortgage markets in the recent financial crisis as highlighted in the United States and its potential policy implications for the local market.

Course Descriptions (2)

RISK AND REGULATION IN REAL ESTATE

This course focuses on the legal fundamentals of real estate practice and development in Singapore. While space and the built environment is ubiquitous, real estate remains a unique asset class. The rules relating to its current and future value, how it may be securely transferred from one party to another and its very definition all depend on law. The course is vital for students with an interest in real estate transactions, its development, investment and financing.

REAL ESTATE VALUATION & TAXATION

This course teaches students the use of valuation methodologies and approaches in appraising real estate for sale, acquisition, and leasing; and provides them with a good understanding of real property taxation which can have significant impact on many real estate decisions. The extensive use of examples and case studies will enhance learning and help the students to readily apply their knowledge to address the many real estate issues and challenges commonly encountered in real estate transactions, property development and property ownership.

Course Descriptions (3)

URBAN ECONOMICS & POLICY

This course is designed as an introductory course of urban economics. It covers fundamental principles developed in economics to understand the functioning/workings of an urban economy and the various aspects of urban life. Firstly, the course begins with the definition of a city, and why cities form by introducing the economics of agglomeration, and how cities interact to form the urban system of the entire economy. These factors affect all urban phenomena. Secondly, the course analyses the internal spatial structure of a city by developing a theory of commuting, housing demand and housing production. It then analyses transportation and land/housing issues in more detail. On transportation, we focus on the economics of traffic congestions, the rationale for congestion pricing (ERP), and the so-called fundamental law of highway congestion. The discussion on land and housing, will address various housing phenomena such as tenure choice and location. The courses will discuss the optimality

Course Descriptions (4)

REAL ESTATE DEVELOPMENT

This course focuses on the real estate development cycle. The main stages of real estate development are (a) predevelopment planning, (b) project inception and roll-out, and (c) post-project management. The first stage consists of activities centred on a feasibility study and due diligence, which will include site planning and development parameters. The next stage is to commence the development, which will include site selection, investigation and evaluation, market study, project management, procurement and regulatory issues. The last stage involves implementing post-project activities including leasing or selling the property, post-construction management and yield enhancement. Each stage has business, financial and operational risks. The course will discuss the embedded activities in the value chain of real estate development for the various sectors, namely, residential, offices, industrial and commercial properties.

PROJECT FINANCING

The course focuses primarily on large projects - those costing at least USD200 million. Through this course, students will learn the mechanics of project finance and the critical success factors for such transactions, including creating value and managing risks. Students will learn how to structure a robust Project Finance Term Sheet to facilitate investment and financing decisions.

The course will include discussions on China's "One Belt One Road" Initiative ("OBOR"), and strategies to capture the opportunities arising from OBOR through Project Finance pathways. Students will also appreciate how finance, economic and political forces are interwoven into project financing especially in the Asia Pacific region.

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Course Descriptions (5)

ANALYTICS IN FINANCE AND REAL ESTATE

This course is to help students to apply the econometrics theory with data in finance and real estate in the real world. It will be empirically oriented, with an emphasis on causal identification using various methods such as randomized control trial, differences-in-differences, and regression discontinuity design. This course will focus on applied econometric issues with cross section and panel data. This course will also introduce machine learning methods and its application in finance and real estate.

