



Ph.D. in Business (Operations Management)

FANG Xin

Programme Coordinator

Lee Kong Chian School of Business, Singapore Management University 新加坡管理大学,李光前商学院



Introduction to SMU

• National University

- A management university in the city center
- Near "Wall Street" of Singapore
- Faculty: 394
- Enrolment size (September, 2020)
 - Undergraduates: 9,144
 - Postgraduates: 2,477 (to increase to 3,000)





SMU Campus



SMU Campus



21 July 2022

SMU PhD Program

Vibrant Campus Life



PhD in Business

- Finance
- Marketing
- Operations Management
- Organizational Behavior & Human Resources
- Strategic Management & Organization

Program Overview and Goals

- Emphasize theoretical research with practical relevance
- Provide teaching opportunities for PhD students
- Targeted placements
 - Faculty positions in leading universities
 - Managerial positions in industry, public sector, and international organisations

Faculty

- Broad research areas
 - Business Analytics
 - E-Commerce and marketplace analytics
 - Healthcare operations management
 - Inventory, logistics, and transportation management
 - Operations planning, scheduling, and control
 - Operations strategy
 - Product, process and service design and improvement
 - Project management
 - Purchasing and sourcing management
 - Supply chain management
 - Sustainable operations

Faculty

- Strong publication records
 - Operations Research
 - Management Science
 - Manufacturing and Service Operations Management
 - Production and Operations Management
 - Journal of Operations Management
 - Naval Research Logistics
 - IIE Transactions
 - Operations Research Letters
 - European Journal of Operational Research
 - Annals of Operations Research
- UT Dallas 2016-2020 Research Rankings
 - SMU: 35th worldwide (2nd in Asia; 1st in Singapore)
 - UC Berkeley 32nd, CUHK 40th, Purdue 41st, Yale 50th
- Young and energetic!

Faculty's publications with graduate students

- "Managing Stochastic Bucket Brigades on Discrete Work Stations," Peng Wang, Kai Pan, Zhenzhen Yan, Yun Fong Lim, Production and Operations Management, 2021
- "Urban Consolidation Center or Peer-to-Peer Platform? The Solution to Urban Last-Mile Delivery," Qiyuan Deng, Xin Fang, Yun Fong Lim, Production and Operations Management, 30(4), 2021
- "Capacity management in agricultural commodity processing and its application in the palm industry," Onur Boyabatli, Jason Quang Dang NGUYEN, Tong Wang, Manufacturing & Services Operations Management, 19 (4), 551-567, 2017
- "The impact of budget constraints on flexible versus dedicated technology choice," Onur Boyabatli, Tiecheng Leng, L. B. Toktay. *Management Science*, 62 (1), 225–244, 2016
- "Consignment contracts with revenue sharing for a capacitated retailer and multiple manufacturers," Yun Fong Lim, Y. Wang, Yue Wu. Manufacturing and Service Operations Management, 17(4), 2015
- "Cellular bucket brigades on U-lines with discrete work stations," Yun Fong Lim, Yue Wu. Production and Operations Management, 23(7), 2014

Placement Records (PhD Programmes in SMU)

- Chinese University of Hong Kong
- Tilburg University
- Peking University
- Fudan University
- Renmin University
- Wuhan University
- Zhongshan University
- Shanghai University of Finance and Economics
- Central University of Finance and Economics
- Singapore Corporate Executive Board
- Google
- A*STAR
- Twitter

Program Structure & Curriculum

- 4 to 5 years
- Curriculum
 - 6 Foundation Courses
 - Introduction to Business Research, Linear Optimization, Probability and Statistics, Foundations of Operations Management, Dynamic Programming, Stochastic Models
 - 4 Advanced Research Topics (ART) Courses
 - Topics in Advanced Optimization Techniques, Topics in Game Theory and Its Applications, Topics in Manufacturing and Service OM, Topics in Interdisciplinary Research in OM, etc.
 - 2 Elective Courses
 - Microeconomics, Econometrics, Algorithms and Optimization, Machine Learning, Foundations for Data Analytics, etc.

Program Structure & Curriculum

Year	Term 1 (Aug - Nov)	Term 2 (Jan - Apr)	Term 3 (May - Aug)
1	Foundation Courses Elective Courses	Foundation Courses Elective Courses	Research
2	ART Courses Elective Courses Research	ART Courses Elective Courses Research	Pass PhD Qualifying Exam Form Dissertation Committee
3	Dissertation Research Submit Dissertation Proposal Oral Defense of Dissertation Proposal	Dissertation Research	Dissertation Research
4	Dissertation Research	Dissertation Research Submit Dissertation Report Oral Defense of Dissertation Report	Dissertation Research Revise and/or Re-submit Dissertation Report Submit Final Dissertation

Admission Requirements

- Undergraduate Bachelor's degree
- GRE or GMAT
- TOEFL or IELTS if undergraduate medium of instruction was not in English
- Curriculum Vitae
- Statement of purpose (1 page)
- 2 referee reports

SMU Scholarship

- 4 years, waiver of registration fee and tuition fee
- Monthly living stipends

Citizenship	Before Qualifying Exam	After Qualifying Exam
Singapore Citizen	S\$2,800	S\$3,300
Singapore Permanent Resident	S\$2,400	S\$2,900
Foreign Student	S\$2,200	S\$2,700

- 5th year onwards
 - Research Assistantship (RA) or Teaching Assistantship (TA)
- Conference funding: S\$3,500
- Presidential Doctoral Fellowship
 - Higher monthly stipend and additional conference support

Doing Research in SMU

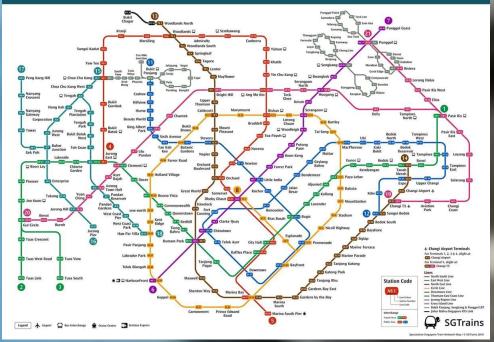
- Research environment
 - Strong collaboration among members within the OM group and beyond
 - Active interaction with other schools (through seminars, summer camps, research collaboration)
 - NUS, NTU, SUTD and INSEAD (Singapore campus)
 - Top scholars and journal editors
- Government supports
 - Research grants available from MOE, A*STAR, NRF, etc.
 - Supports for extra stipends, conference travel, computers, etc.
- Industry relationships
 - Active engagement with various industries and public organizations
 - Institute of Innovation and Entrepreneurship, Institute of Service Excellence, Retail Center of Excellence, Living Analytics Research Center, etc.

Studying and Living in Singapore

• Travel

- MRT and bus
- Taxi
- Convenient location





- Medical insurance
 - Full-time and part-time local and international graduate students

• Shopping

21 July 2022

Housing Development Board (HDB) Flats

- Developed by government agency, HDB
- 80-85% of the population lives in HDB flats
- Typically near amenities such as MRT, food centers



Private Condominiums

- Developed by private property companies
- Typically equipped with facilities such as swimming pool, tennis courts, gyms



Landed Properties







Living Expense (Estimated Figures)

- Accommodation
 - Rental rates
 - Whole-unit rental and 2 persons share a room
 - HDB flat: S\$500/month
 - Condominium: S\$750/month
 - Usually include utility and internet bills (S\$50/month)
 - Cheaper to stay with landlord(s)
- Food
 - S\$500/month
 - Average S\$5/meal (lunch or dinner) in canteens near school
- Travel
 - S\$120/month
 - Assuming you go to school everyday and take taxi occasionally
- Shopping and entertainment
- Quality of life

Scholarship

Year 1&2: S\$2200/month

Year 3&4: S\$2700/month

Program Website and Contact

• Our program website

- http://business.smu.edu.sg/programmes/phd-business-operationsmanagement/overview-programme-goals
- Search: smu phd operations management
- Contact information
 - Tel: (65) 6828 9585 / (65) 6828 0896
 - Fax: (65) 6828 0777
 - Email : msc_phd_lkcsb@smu.edu.sg
 - My email : xfang@smu.edu.sg

Apply Now!