

Ph.D. in Business (Operations Management)

Yun Fong LIM

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
- President
 - Professor Arnoud De Meyer (OM)
- Faculty: 351
- Enrolment size (Sep 6, 2013)
 - Undergraduates: 7,297
 - Postgraduates: 1,006 (to increase to 3,000)



SMU Campus



SMU Campus



Vibrant Campus Life



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



Marcus ANG
PhD, NUS, 2008



Xin FANG
PhD, Carnegie Mellon University, 2014



Kwan Eng WEE
PhD, Purdue University, 2000



Buket AVCI
PhD, INSEAD, 2014



Yun Fong LIM
PhD, Georgia Institute of Technology, 2005



Kum Khiong YANG
PhD, Indiana University, 1990



Shantanu BHATTACHARYA
PhD, University of Texas at Austin, 1998



Joyce LOW
PhD, NUS, 2008



Daniel ZHENG Zhichao
PhD, NUS, 2013



Onur BOYABATLI
PhD, INSEAD, 2007



Sharafali MOOSA
PhD, NUS, 1994



Helen ZHOU Yangfang
PhD, Carnegie Mellon University, 2012



Pascale CRAMA
PhD, London Business School, 2007



Brian RODRIGUES
PhD, UC Santa Barbara, 1987



Lieven DEMEESTER
PhD, UCLA, 1995



Rowan WANG Yu
PhD, University of Minnesota, 2014

Faculty
with diverse background
(from 6 countries)

Faculty

- Broad research areas
 - Healthcare operations
 - Inventory management
 - Operations planning, scheduling, and control
 - Operations strategies
 - Process design and improvement
 - Design and development for products and services
 - 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 2010 to 2014 Research Rankings (Jan 21, 2015)
 - LKCSB: 58th worldwide
 - OM Group: 35th worldwide
 - Cornell 37th, Chicago 40th, Yale 46th, CUHK 65th
- Young and energetic!

Faculty

- Faculty's publications with **graduate students**
 - "The Impact of Budget Constraints on Flexible versus Dedicated Technology Choice", **Onur Boyabatli**, **Tiecheng Leng**, L. B. Toktay. *Management Science*, forthcoming, 2015.
 - "Consignment contracts with revenue sharing for a capacitated retailer and multiple manufacturers", **Yun Fong Lim**, Y. Wang, **Yue Wu**. *Manufacturing and Service Operations Management*, forthcoming, 2015.
 - "Cellular bucket brigades on U-lines with discrete work stations", **Yun Fong Lim**, **Yue Wu**. *Production and Operations Management*, 23(7), 2014.
 - "A two-item two-warehouse periodic review inventory model with transshipment," **Koushik S. Ramakrishna**, Sharafali Moosa, **Yun Fong Lim**. *Annals of Operations Research*, DOI: 10.1007/s10479-013-1483-4, 2013.
 - "A quay crane system that self-recovers from random shocks," **Yun Fong Lim**, **Yan Zhang**, C. Wang. *Flexible Services and Manufacturing Journal*, DOI: 10.1007/s10696-015-9211-9, 2015.

Program Structure & Curriculum

- 4 to 5 years (min 3 years)
- Curriculum
 - 6 Foundation Courses
 - Introduction to Business Research, Linear Optimization, Probability and Statistics, Foundations of Operations Management, Dynamic Programming, Stochastic Models
 - 2 Elective Courses
 - Microeconomics I, Econometrics I, Decision Support and Optimization, Advanced Topics in Intelligent Decision Support, etc.
 - 4 Advanced Research Topics (ART) Courses
 - Topics in Game Theory and Its Applications, Topics in Advanced Optimization, Topics in Manufacturing and Service Operations Management, Topics in Interdisciplinary Research in OM, 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 Research Prepare Dissertation Proposal	ART Courses Research Pass PhD Qualifying Exam Form Dissertation Committee	Research
3	Dissertation Research Submit Dissertation Proposal Oral Defense of Dissertation Proposal	Dissertation Research	Dissertation Research
4	Dissertation Research	Dissertation Research (i) Submit Dissertation Report (ii) Oral Defense of Dissertation Report	Dissertation Research (i) Revise and/or re-submit Dissertation Report (ii) Submit final Dissertation for approval

Admission Requirements

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

SMU Scholarship

- 4 years
- Waiver of the registration fee and tuition fee
- Living stipends

Citizenship	Before Qualifying Exam	After Qualifying Exam
Singapore Citizen	S\$2,500	S\$3,000
Singapore Permanent Resident	S\$2,200	S\$2,700
Foreign Student	S\$2,000	S\$2,500

- 5th year onwards
 - Research Assistantship (RA) or Teaching Assistantship (TA)
- Conference funding: S\$3,500

Placement Records

- XIAOHU WANG (Economics) Assistant Professor, Department of Economics, **Chinese University of Hong Kong**
- YONGHUI ZHANG (Economics) Assistant Professor, School of Economics, **Renmin University**
- YEN TEIK LEE (Finance) Assistant Professor of Finance, **Shanghai University of Finance and Economics**
- TAO ZENG (Economics) Assistant Professor, School of Economics and Management, **Wuhan University**
- FUWEI JIANG (Finance) Assistant Professor in Finance, **Central University of Finance and Economics**
- HANBO DAI (Information System) Associate Professor, School of Computer Science and Information Engineering, **Hubei University**
- YUEQIANG CHENG (Information System) Postdoctoral Fellow, CyLab, **Carnegie Mellon University**
- JIANHUI HUANG (Information System) Senior Research Analyst, **Singapore Corporate Executive Board (CEB)**
- QIANG YAN (Information System) Research Engineer, **Google**, Switzerland
- MEIQUN HU (Information System) Research Scientist, **Institute for Infocomm Research (I2R), A*STAR**
- JIN HAN (Information System) Research Engineer, **Twitter**, San Francisco, USA

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, UOB-SMU Asian Enterprise Institute, Living Analytics Research Center, etc.

Studying and Living in Singapore

- Accommodation
 - Different types of accommodation
- Food
 - Various choices
 - Near school (\geq S\$3/meal)
- Travel
 - MRT and bus
 - Taxi
 - Convenient location
- Medical insurance
 - Full-time and part-time local and international graduate students
- Shopping



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)
 - Housing prices are decreasing
 - 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\$2000/month
Year 3&4: S\$2500/month

Program Website and Contact

- Our program website
 - <http://business.smu.edu.sg/programmes/phd-business-operations-management/overview-programme-goals>
 - Search: smu phd operations management
- Contact information
 - Tel: (65) 6828 0896 / (65) 6828 1962
 - Fax: (65) 6828 0777
 - Email : msc_phd_lkcsb@smu.edu.sg



Thank you!