Ph.D. in Business (Operations Management)

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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

Legend
- Car Park
- SMU Car Park
- Drop Off Point
- MRT Station
- The Gallery
- Visitor Centre
- Food & retail outlets at Basement Concourse
- Road Works

1. SMU Administration Building
2. Lee Kong Chian School of Business
3. School of Accountancy
4. School of Law
5. Li Ka Shing Library
6. School of Information Systems
7. School of Economics
8. School of Social Sciences

24 October 2014
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
Faculty

• Variety of background (from 6 countries)
• 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 2009 to 2013 Research Ranking (Apr 3, 2014)**
  – LKCSB: 52\textsuperscript{nd} worldwide
  – OM Group: 34\textsuperscript{th} worldwide
    – Cornell 36\textsuperscript{th}, Chicago 41\textsuperscript{st}, Yale 43\textsuperscript{rd}, CUHK 58\textsuperscript{th} (Oct 8, 2014)

• **Young and energetic!**
Faculty

- Marcus ANG
  - PhD (Operations Management), National University of Singapore, 2008

- Buket AVCI
  - PhD (Technology and Operations Management), INSEAD, 2014

- Shantanu BHATTACHARYA
  - PhD (Operations Management), University of Texas at Austin, 1998

- Onur BOYABATLI
  - PhD (Technology and Operations Management), INSEAD, 2007

- Pascale CRAMA
  - PhD (Management Science), London Business School, 2007

- Lieven DEMEESTER
  - PhD (Operations and Technology Management), UCLA, 1995
Faculty

- Xin FANG
  - PhD (Operations Management), Carnegie Mellon University, 2014

- Yun Fong LIM
  - PhD (Industrial and Systems Engineering), Georgia Institute of Technology, 2005

- Joyce LOW
  - PhD (Industrial and Systems Engineering), National University of Singapore, 2008

- Sharafali MOOSA
  - PhD (Business Administration), National University of Singapore, 1994

- Brian RODRIGUES
  - PhD (Mathematics), University of California at Santa Barbara, 1987

- Rowan WANG Yu
  - PhD (Industrial and Systems Engineering), University of Minnesota, 2014
Faculty

- Kwan Eng WEE
  - PhD (Operations Management), Purdue University, 2000

- Kum Khiong YANG
  - PhD (Operations Management), Indiana University, 1990

- Daniel ZHENG Zhichao
  - PhD (Management), National University of Singapore, 2013

- Helen ZHOU Yangfang
  - PhD (Operations Management), Carnegie Mellon University, 2012
Program Structure & Curriculum

• 4 to 5 years (min 3 years)

• Curriculum
  – 6 Foundation Courses
  – 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 Optimization, Topics in Manufacturing and Service Operations, Topics in OM-Finance Interface
# Program Structure & Curriculum

<table>
<thead>
<tr>
<th>Year</th>
<th>Term 1 (Aug - Nov)</th>
<th>Term 2 (Jan - Apr)</th>
<th>Term 3 (May - Aug)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Foundation Courses</td>
<td>Foundation Courses</td>
<td>Research</td>
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<tr>
<td></td>
<td>Elective Courses</td>
<td>Elective Courses</td>
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<tr>
<td>2</td>
<td>ART Courses</td>
<td>ART Courses</td>
<td>Research</td>
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<tr>
<td></td>
<td>Research</td>
<td>Research</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prepare Dissertation Proposal</td>
<td>Pass PhD Qualifying Exam</td>
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<td>Form Dissertation Committee</td>
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<tr>
<td>3</td>
<td>Dissertation Research</td>
<td>Dissertation Research</td>
<td>Dissertation Research</td>
</tr>
<tr>
<td></td>
<td>Submit Dissertation Proposal</td>
<td>Submit Dissertation Report</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Dissertation Research</td>
<td>Dissertation Research</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(i) Submit Dissertation Report</td>
<td>(i) Revise and/or re-submit Dissertation Report</td>
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Admission Requirements

- Undergraduate Bachelor's degree
- GRE or GMAT
  - 30 percentile for GRE verbal and critical writing
  - Historical average GMAT: 600
- TOEFL/IELTS if undergraduate medium of instruction was not in English
  - Historical average TOEFL: 100
  - Historical average IELTS: 6
- 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**

<table>
<thead>
<tr>
<th>Citizenship</th>
<th>Before Qualifying Exam</th>
<th>After Qualifying Exam</th>
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</thead>
<tbody>
<tr>
<td>Singapore Citizen</td>
<td>S$2,500</td>
<td>S$3,000</td>
</tr>
<tr>
<td>Singapore Permanent Resident</td>
<td>S$2,200</td>
<td>S$2,700</td>
</tr>
<tr>
<td>Foreign Student</td>
<td>S$2,000</td>
<td>S$2,500</td>
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</tbody>
</table>

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

24 October 2014
Placement Records

• FUWEI JIANG (Finance) Assistant Professor in Finance, Central University of Finance and Economics
• 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
• YONGHUI ZHANG (Economics) Assistant Professor, School of Economics, Renmin University
• XIAOHU WANG (Economics) Assistant Professor, Department of Economics, Chinese University of Hong Kong
• 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 GmbH
• MEIQUN HU (Information System) Research Scientist, Institute for Infocomm Research (I2R), A*STAR
• JIN HAN (Information System) Research Engineer Twitter, Inc., 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 industry 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 (>= 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 e.g., MRT, food centres
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
  - Provided that you go to school everyday and take taxi occasionally

- **Shopping and entertainment**

- **Quality of life**

<table>
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<tr>
<th>Scholarship</th>
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<tr>
<td>Year 1&amp;2: S$2000/month</td>
</tr>
<tr>
<td>Year 3&amp;4: S$2500/month</td>
</tr>
</tbody>
</table>
Program Website and Contact

• **Our program website**
  – 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!