PhD Opportunities @ SoC

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WHY NUS SCHOOL OF COMPUTING?

<table>
<thead>
<tr>
<th>Rank</th>
<th>University Name</th>
<th>Country/Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MIT Massachusetts Institute of Technology</td>
<td>USA</td>
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<tr>
<td>2</td>
<td>Stanford University</td>
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<tr>
<td>3</td>
<td>Carnegie Mellon University</td>
<td>USA</td>
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<tr>
<td>4</td>
<td>University of California, Berkeley (UCB)</td>
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<tr>
<td>5</td>
<td>University of Cambridge</td>
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<td>7</td>
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<td>UK</td>
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<td>8</td>
<td>Princeton University</td>
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<tr>
<td>9</td>
<td>ETH Zurich - Swiss Federal Institute of Technology</td>
<td>Switzerland</td>
</tr>
<tr>
<td>10</td>
<td>National University of Singapore (NUS)</td>
<td>Singapore</td>
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</table>

Asia University Rankings 2018: the top 10

<table>
<thead>
<tr>
<th>Rank</th>
<th>Asia University Ranking 2018</th>
<th>Asia University Ranking 2017</th>
<th>Position in World University Rankings 2018</th>
<th>Institution</th>
<th>Country/Region</th>
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<td>The University of Tokyo</td>
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<tr>
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<td>95</td>
<td>Korea Advanced Institute of Science and Technology (KAIST)</td>
<td>South Korea</td>
</tr>
</tbody>
</table>
Mission & Aspirations

Quality Education:
• Undergrad education
• Internship & experiences outside classroom
• Grad education
• Exec prog

High Impact Research:
• Active role in international & local research
• Leadership in areas of strength
• Close collaboration with RIs and industry

National Manpower Needs
• Quality infocomm professionals
• Skills upgrading
• Future infocomm leaders

National Technology Needs
• Impactful research:
  • Relevant to economy
  • Relevant to industry
OUTLINE

- What is a PhD?
- Why do a PhD?
- PhD Funding
  - PhD Scholarships
  - Industry Postgraduate Programmes
  - Other Funding
- Career Opportunities
WHAT IS A PHD?

- Doctor of Philosophy – “love of wisdom” (ancient Greek translation)
- 4-5 years of full-time study: thesis + published papers
Why do a PhD?

- Passion to acquire and create new knowledge
- Develop deep skills: analytical mind, solve complex problems, perseverance...
- Career and personal development
  - ...
- All science impact by computing
- Computing touch almost all human activities
- Young field with tremendous opportunities for important discovery
- Offers fun + future + impact
  - ...

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HOW TO FUND YOUR PhD?

- NUS PhD Scholarships
- MSc + PhD Scheme
- Graduate Tutorship Scheme
- Teaching/Research Assistantship
- Industry PhD Programmes
  - (Paypal, Yitu, Shopee, Grab, SaleForce, Ali Baba)
**NUS PhD Scholarships**

**Research Scholarships (No Bond)**
- Candidates admitted for PhD is given RS for 4 years (S$2,200 to S$2,700 monthly stipend + tuition fee)
  - If more than 4 years is needed, can be potentially supported by grant/TA etc
- Candidate gets a choice (within 6 months) to choose supervisor from among 100+ faculty members
  - not tied to any particular supervisor

**Other Scholarships**
- President's Graduate Fellowship (PGF) (S$3,000 to S$3,500 monthly stipend + tuition fee)
- Lee Kong Chian Graduate Scholarships

**Financial Support & Awards**
- PhD Top-up after passing QE (S$500) for NUS RS
- Conference Trips for Rank 1 and 2 papers
- Research Achievement Award ($250)
- Dean's Graduate Research Excellence Award ($1,000)
- Best Doctoral Thesis Award
- A*STAR International Fellowship – post-doctoral training at leading overseas laboratories
MSc + PhD SCHEME

- Complete MSc, before embarking on PhD
- MSc scholarship limited to Singaporean
- Potential Applicants
  - Students who wish to embark on a research career
  - Students who need to build up research foundation via MSc first
GRADUATE TUTORSHIP

- Prestigious tutorship scheme limited to Singaporean
- Embark on PhD + be Engaged as a Tutor at SoC
- Opportunity for (i) Research, (ii) Teaching and (iii) Internship
- Terms
  - Tuition Fee Waiver for PhD
  - Salary of $6000 per month
  - Must be completed in 5 years max.
INDUSTRY POSTGRADUATE PROGRAMME

- Economic Development Board
  - Full-time Research towards PhD @ SoC
  - Candidate must be Singapore Citizen or PR
  - $3,500-$6,000 monthly salary
  - No bond
  - Further information and application form:

- YITU, Grab, Shopee, Salesforce, Ali Baba

- PayPal (Fintech, MSc/PhD)
CAREER OPPORTUNITIES

- Advanced product development
- Research in corporate and university labs
- Academia: teaching + research
- Start-up company based on PhD work
- ...

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NUS SCHOOL OF COMPUTING PhD GRADUATES
- ACADEMIC PLACEMENTS -

CS & IS Academic Positions in these institutions:

- Birla Institute of Technology, Pilani
- City University Hong Kong
- Chinese Academy of Sciences
- EESEC Business School, France
- ETH Zurich, Switzerland
- Fudan University
- Huazhong University of Sc & Tech
- KAIST, Korea
- Lahore University of Mgmt Sciences (LUMS)
- Michigan State University
- Nanjing University
- Ohio University, USA
- Peking University
- Pennsvylvania State University, USA
- Renmin University of China
- Shandong University
- Shanghai Jiao Tong University
- Sun Yat-Sen University
- Tsinghua University
- University of Adelaide, Australia
- University of Auckland
- University of Cluj, Romania
- University of Massachusetts, Boston
- University of Melbourne
- University of NSW, Australia
- University of Queensland
- University of Southern Denmark
- University of Winnipeg, Canada
- Xiamen University
- Xi’an Jiao Tong University
- Zhejiang University

...and many other academic and research positions in various institutions of the world...

http://www.comp.nus.edu.sg/programmes/#graduates
NUS SCHOOL OF COMPUTING PHD GRADUATES - INDUSTRIAL PLACEMENTS -

Research or Technical Positions in these companies:

- Adobe Inc, USA
- Amazon USA
- Autodesk Research, Canada
- Baidu
- Bing@USA
- Catena Technologies, Singapore
- Circos Brandkarma, Singapore
- EMC Labs
- Facebook, USA
- Google Mountain View, USA
- Hortonworks Inc, USA
- Huawei
- HP Lab
- IBM
- Intel Labs
- Microsoft Research Redmond, USA
- Morgan Stanley, Shanghai
- Raytheon BBN Technologies, Cambridge, USA
- Samsung Research America, Silicon Valley
- SAP Asia, Singapore
- Standard Chartered Bank, Singapore
- Symantec, Singapore
- Verimag, France
- Visa

...and many other industrial/technical positions in various reputable institutions of the world...

http://www.comp.nus.edu.sg/programmes/#graduates
Entrepreneurship

Diverse companies set up by SoC staff, students & alumni