A Quick Intro to NUS School of Computing

Limsoon Wong

NUS
National University
of Singapore

KENT RIDGE CAMPUS
(correct as at 25 Feb 2008)

National University of Singapore

NUS Fact Sheet

- **From a modest medical school founded in 1905, NUS has evolved into Singapore's global univ with distinctive strengths in education and research and an entrepreneurial dimension. It has an enrolment of ~23,500 undergrad and ~9,000 grad students from ~90 countries**

- **NUS's 14 faculties offer a broad-based curriculum underscored by multi-disciplinary courses and x-faculty enrichment. It also enjoys a close teaching-research nexus with 13 natl-level, 12 univ-level and 80 faculty-based research institutes and centres**

School of Computing

SOC Fact Sheet

- **Established July 1998, to provide high-quality infocomm education and high-impact infocomm research for service to country and society**

- **Departments:**
  - Computer Science
  - Information Systems
- **Staff : 120 core faculty**
- **Students: 2035**
  - 1535 undergrads
  - 500 grad students (350 PhD + 150 MComp)

Main Research Areas

Computer Science
- **AI**
- **Bioinformatics**
- **Database**
- **Media**
- **Prog & S/W Engineering**
- **Systems & Networks**

Information Systems
- **E-Commerce**
- **Internet & Info Privacy**
- **Knowledge Management**
- **Virtual Communities**

Advance knowledge and foster innovation, educate students and nurture talent, in service of country and society

Research Impact

Research Area	# researchers considered	FULL PROFESSORS										
		Limsoon's position	Joxan's position	Ling's position	Beng Chin's position	Kian Lee's position	Chew Lim's position	Sanjay's position	Mohan's position	Tat Seng's position	Thiagu's position	Wynne's position
All CS	w/ 20+ citations 100,000	1455 1.46%	713 0.71%		2953 2.95%	3391 3.39%					3982 3.98%	3982 3.98%
PL & SW Eng	w/ 1+ citation 100,000	4812 4.81%	121 0.12%								2583 2.58%	
AI	80,000		1054 1.32%								4559 5.70%	2520 3.15%
Machine Learning	45,000						1403 3.12%	467 1.04%	1246 2.77%			3888 8.64%
Data Mining	20,000	627 3.14%		2421 12.11%	2962 14.81%	2962 14.81%	2058 10.29%					39 0.20%
Info Retrieval	30,000	2803 9.34%		1700 5.67%	898 2.99%	2322 7.74%			2127 7.09%	656 2.19%		
WWW	30,000			1364 4.55%	906 3.02%	947 3.16%				3941 13.14%		2907 9.69%
Databases	75,000	232 0.31%	924 1.23%	502 0.67%	247 0.33%	273 0.36%				3443 4.59%		1478 1.97%
RT & Embedded Sys	15,000		2147 14.31%								3326 22.17%	
Comp Bio	25,000	120 0.48%					3108 12.43%					
Multimedia	45,000				1156 2.57%	1320 2.93%	2248 5.00%		382 0.85%	197 0.44%		2623 5.83%

Libra Academic Search, Nov 2008

Research Funding

Annual New Funding ($M)

	AcRF	**A*STAR**	**Others**	**Total**
FY07	3.1	1.5	4.2	8.8
FY06	2.8	1.0	1.7	5.5
FY05	3.5	2.4	1.4	7.3
FY04	2.9	1.2	0.4	4.5
FY03	3.2	2.4	0.2	5.8

NUMBER OF PROJECTS PER YEAR					
FY2005		**FY2006**		**FY2007**	
On-going	New	On-going	New	On-going	New
69	43	79	42	73	42

Undergraduate Programmes
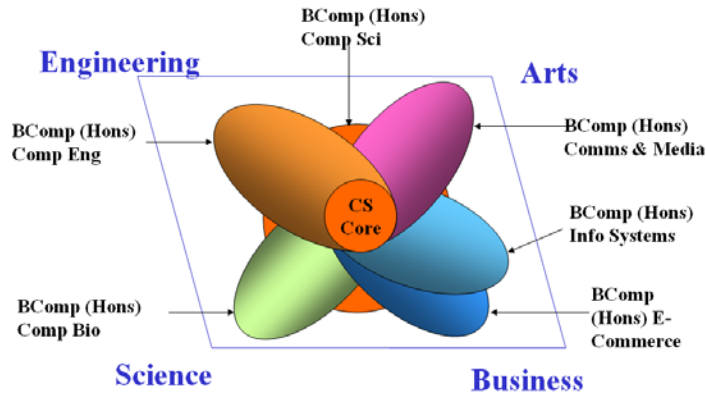
Good students are encouraged to participate in:
UROP, ATAP, FYP, & SIG

Advanced Technology Attachment Programme (6-month internship) with:

Graduate Programmes

- **PhD Research in**
  - Algorithms and Theory
  - Artificial Intelligence
  - Biomedical Computing
  - Database Mgmt Systems
  - Info Security
  - Media, Graphics, HCI
  - Prog Lang, S/W Eng
  - Systems and Networking

- **Master of Computing in**
  - Computer Science
  - Infocomm Security
  - IT Project Management

- Culture and Info Systems
- Economics of IT
- E-Commerce
- E-Government
- Group Support Systems
- Negotiation Support Systems
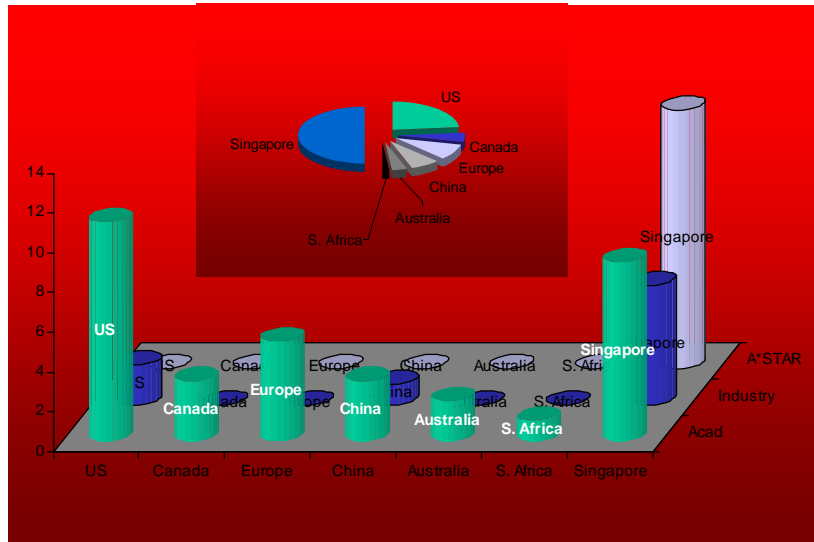- Info Privacy
- User-Database Interaction

Financial Support for PhD Students

- **Research Scholarship (Fee + Stipend $2,000 & above/month)**

- **PhD Top-up ($500)**

- **President's Graduate Fellowship ($3,000 /month)**

- **Support for traveling to overseas conferences**

- **Research & Teaching Assistantships**

Where PhD Students Go in 2006/7

Working with Industry

- **Consulting**

- **Technology licensing**

- **Research contract**

- **Joint research labs**

- **Example research contract**
  - General Motors
  - Performance Modeling and Tool-Support for Designing FlexRay-based ECU Networks
  - $0.5M

- **Example joint research lab**
  - I²R
  - Knowledge discovery from clinical data
  - $1.0M

SOC Incubation Centre

Companies graduated:

- **Friar Tuck**
- **GeoFoto**
- **Delcon Networks**
- **Intelligent Optimization**
- **Mozat**
- **Atsuma Technology**
  Multitrex
- **Innvo Systems**
  IQExplorers.com
- **Frensville**

Current incubatees:

- **DreamAxis**
- **Mosonex**
- **Smoove**
- **LD Tech**
- **Nineo.com**
- **DecisionWare**
- **TenCube**

THE BUSINESS TIMES

Mozat unleashes the potential in mobile devices
Chen Huifen
984 words
5 September 2006
Business Times Singapore
English
(c) 2006 Singapore Press Holdings Lir

THE beginnings of homegrown mobile
were working on their PhDs when the

'Basically, we saw that people were
limitations,' says Michael Yin, who ca
you cannot carry it anywhere you wa
connection to your e-mail, your conta

And with just that idea, Mr Yin and hi
at the National University of Singapor

News and Events

FRIARTUCK CREATES SCHEDULES IN MARS TIME FOR NASA

When NASA needed software to schedule scientists and engineers f
landed on Mars on January 4, they did not turn to Microsoft or other s
FriarTuck that specializes in complex scheduling solutions.

In Science team alone, there are about 200 scientists working on
filling 22 different operational roles. Any one scientist is qualified to f
their expertise and experience. Creating and maintaining the staffing
the duty planner staff the 22 roles for both rovers while adhering to
that are designed to minimize personnel fatigue. On top of this, the

**SoC Start-up Clinches Grand Prize in National Entrepreneu
Competition**

TenCube