



Carnegie Mellon University Qatar

April 2014

Outline

- Context: Qatar and Education City
- Programs
- Faculty
- Students
- Alumni
- Other



Qatar



Qatar



- ~ 2.05M people (< 300,000 Qataris)
- Highest GDP per capita (\$145,300)
 - 19.4% real growth rate (2nd in the world)
 - Oil and gas is 70% of GDP
- Be a knowledge-based economy by 2030
 - Huge investment in education
 - 2.8% of GDP committed to research

Source: CIA Factbook 2011



Carnegie Mellon University Qatar

Doha

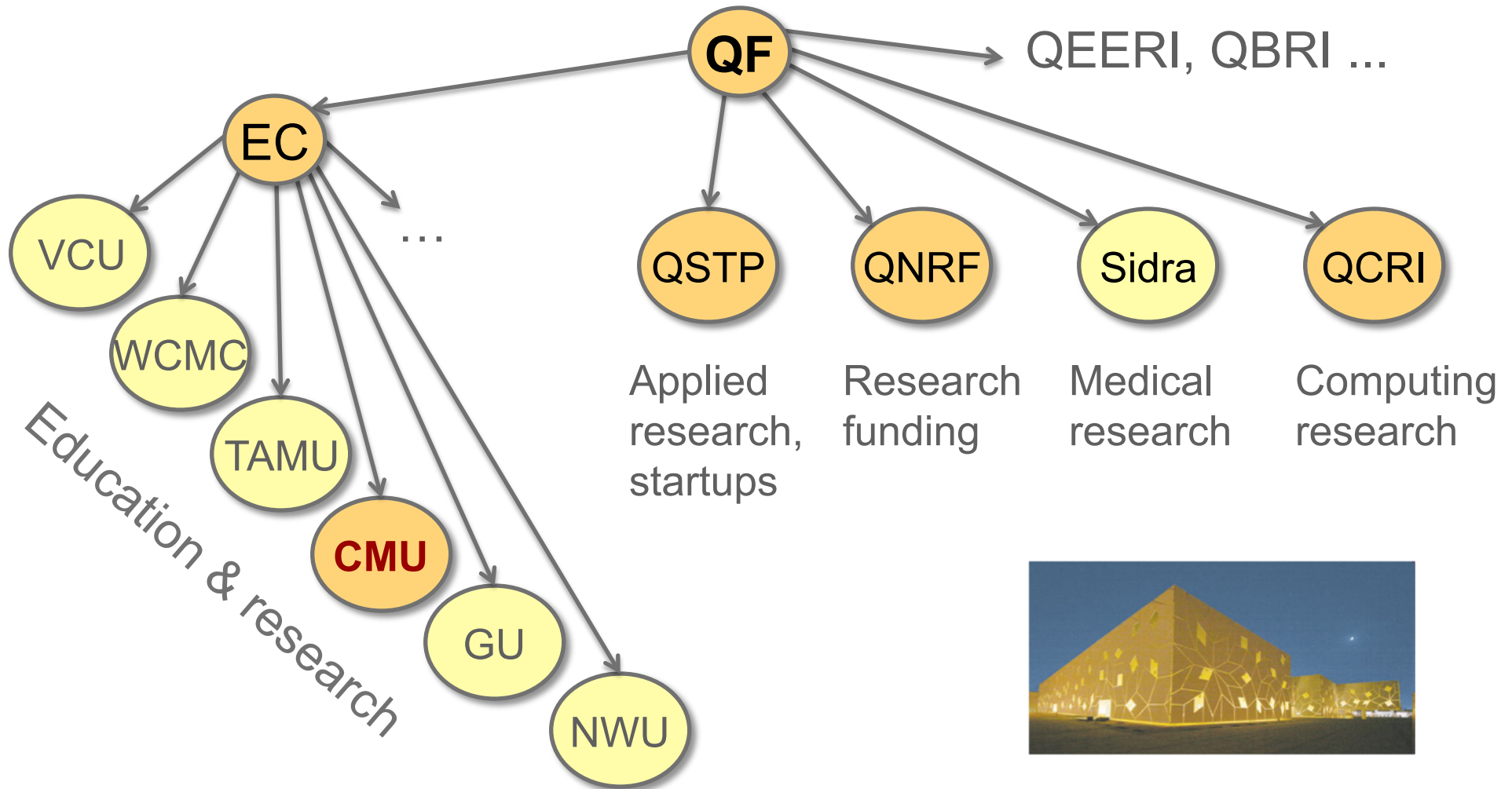


Qatar Foundation

- An independent nonprofit organization committed to the development of Qatar and its people
 - Founded 1995
 - Chaired by Sheika Moza



Qatar Foundation



Education City

- 3700 acres
- 8 international branch campuses
- ~2,500 students
 - 30% live on campus
 - 90 students nationalities
 - 70 percent of students receive QF scholarships or loans



Carnegie Mellon University in Qatar

- Started in 2004
 - 10th year Celebrations on March 18, 2014
- Offer Undergraduate Degrees
 - Biological Sciences (2011)
 - Business Administration (2004)
 - Computational Biology (2011)
 - Computer Science (2004)
 - Information Systems (2007)

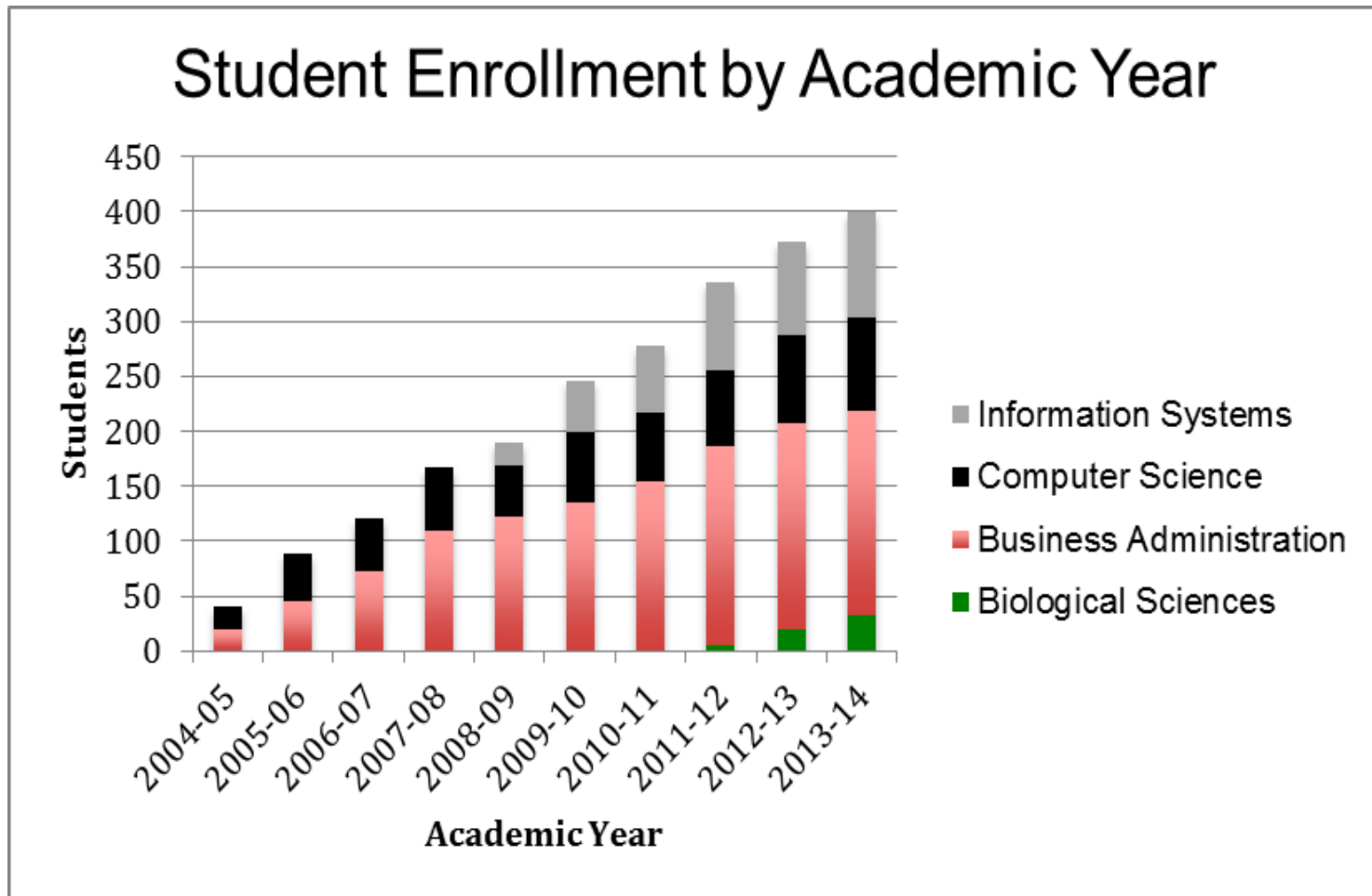


Faculty

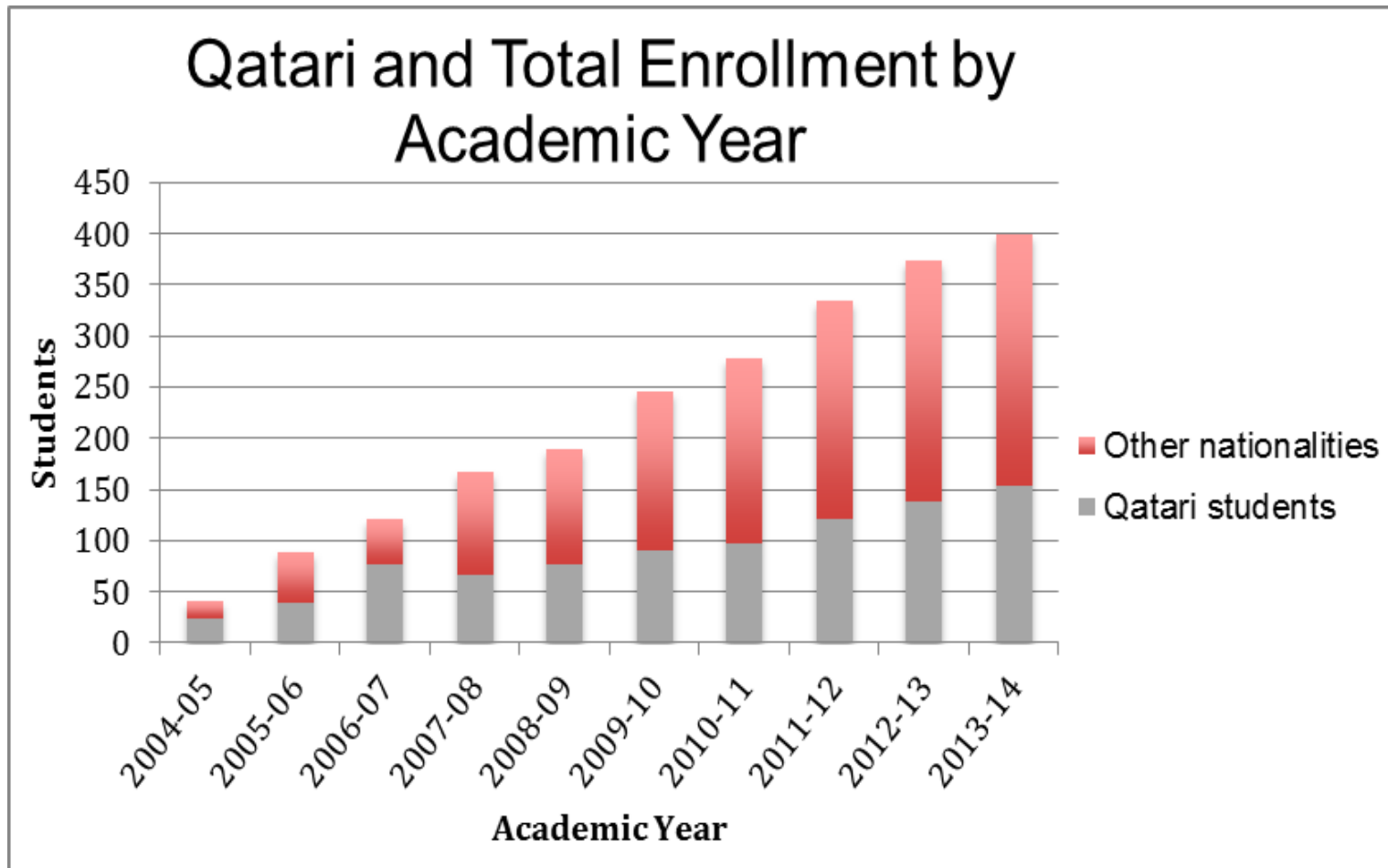
- Business Administration – 14
- Biology – 5
- Computer Science – 10
- Information Systems – 5
- General Education – 20
 - Math, Sciences, English, Humanities



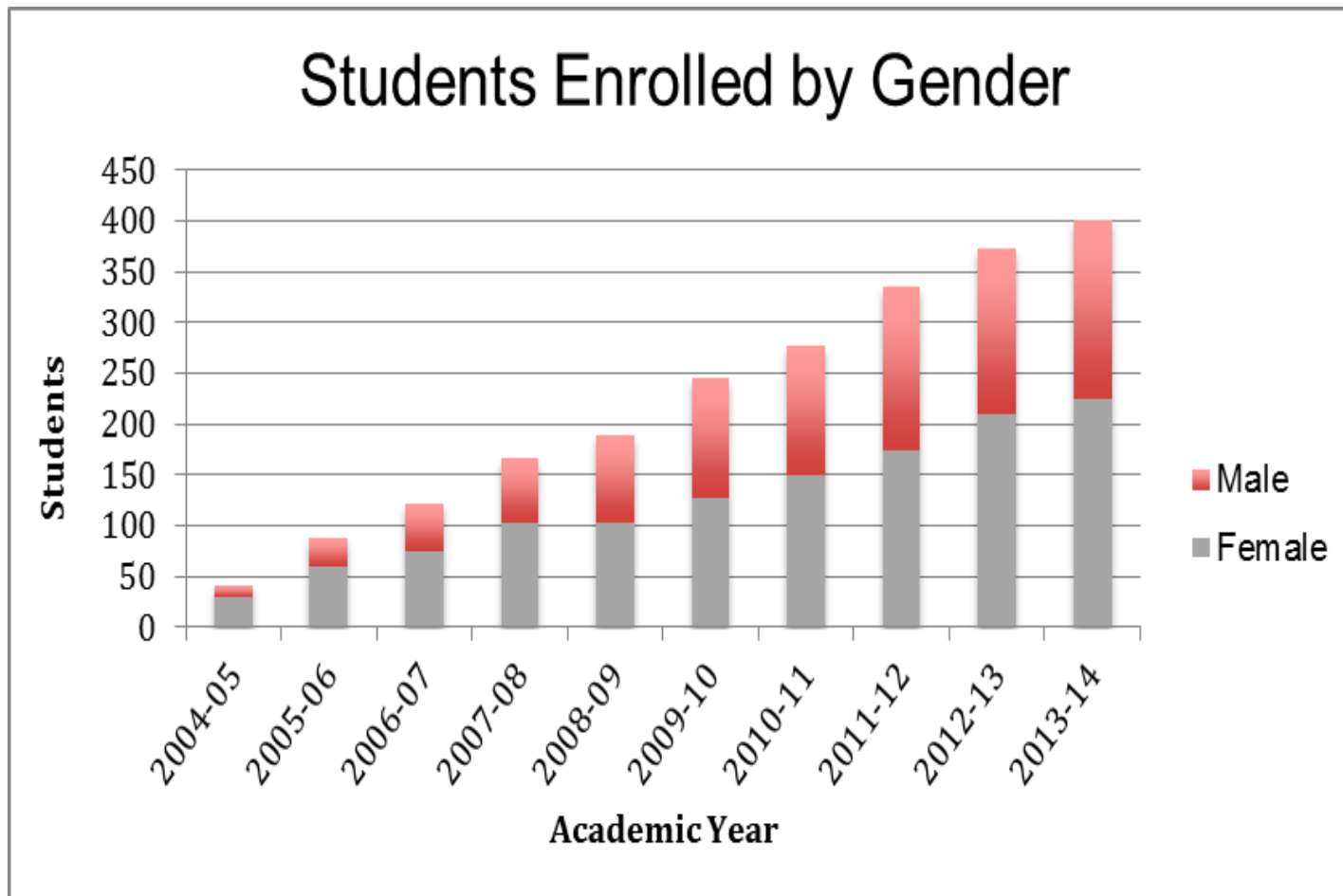
Students: 10 Year Summary



Students: 10 Year Summary



Students: 10 Year Summary



Students (As of Spring 2014)

		Qatari		Non-Qatari		Total by Gen		Total	
		Female	Male	Female	Male	Female	Male		
Spring 2014 Enrollment	QBA	Fresh	18	3	11	13	29	16	45
		Soph	22	4	9	6	31	10	41
		Junior	20	6	13	13	33	19	52
		Senior	12	4	8	18	20	22	42
		Total	72	17	41	50	113	67	180
	QBS	Fresh	6	2	3	3	9	5	14
		Soph	2	0	9	2	11	2	13
		Junior	0	1	1	2	1	3	4
		Senior	1	1	1	0	2	1	3
		Total	9	4	14	7	23	11	34
	QCS	Fresh	1	2	9	19	10	21	31
		Soph	0	1	6	12	6	13	19
		Junior	0	2	2	11	2	13	15
		Senior	1	1	3	5	4	6	10
		Total	2	6	11	47	22	53	75
	QSS	Fresh	12	2	7	5	19	7	26
		Soph	8	1	3	6	11	7	18
		Junior	10	2	6	10	16	12	28
		Senior	8	0	6	13	14	13	27
		Total	38	5	22	34	60	39	99
Total		121	32	88	138	218	170	388	



Student Exchange

Pittsburgh / Doha Exchange

Semester	Pitt > Doha	Doha > Pitt
2006 Fall	0	1
2007 Fall	0	1
2007 Spring	0	1
2008 Fall	5	12
2008 Spring	8	2
2008 Sum 1	0	7
2008 Sum 2	0	5
2009 Fall	0	8
2009 Spring	10	7
2009 Sum 1	1	14
2009 Sum 2	0	7
2010 Fall	3	9
2010 Spring	12	5
2010 Sum 1	0	14
2010 Sum 2	0	7
2011 Fall	1	6
2011 Spring	6	8
2011 Sum 1	0	20
2011 Sum 2	0	15
2012 Fall	0	18
2012 Spring	5	8
2012 Sum 1	0	25
2012 Sum 2	0	28
2013 Fall	1	14
2013 Spring	0	10
2013 Sum 1	0	43
2013 Sum 2	0	26
2014 Spring	0	13
2014 Sum 1	0	30
2014 Sum 2	0	4
Total	52	368

*Does not include IMPAQT students



Graduates

Graduation Data					
Date	QBA	QBS	QCS	QIS	Total
05/18/08	18	0	10	0	28
08/12/08	3	0	0	0	3
12/18/08	3	0	2	0	5
05/17/09	18	0	7	0	25
08/11/09	6	0	0	0	6
12/17/09	2	0	0	0	2
05/16/10	20	0	4	4	28
08/10/10	3	0	0	0	3
12/16/10	4	0	0	1	5
05/15/11	30	0	4	6	40
08/09/11	1	0	0	0	1
12/22/11	7	0	2	5	14
05/20/12	25	0	5	9	39
08/14/12	3	0	3	1	7
12/20/12	4	0	3	2	9
05/19/13	33	6	10	15	64
08/13/13	6	0	2	1	9
12/19/13	3	0	1	1	5
Total	189	6	53	45	293



Graduate Employment

Top 10 Sectors



- Oil and Gas Industries
- Banking & Finance
- Education
- Technology
- Non-Profit Orgs
- Telecommunications
- Industrial Goods
- Government
- Research and Development
- Arts and Culture



Graduate Employment Top 10 Employers



Graduate Employment

- KPMG
- PWC
- Ernest & Young
- RasGas
- Qatar Olympic Committee
- Qatar Petroleum
- Dolphin Energy
- Northwestern Univ. Qatar
- Conoco Phillips
- MS Research
- Exxon Mobil
- Qatar Gas
- ICT Qatar
- CMU-Q
- Google
- Microsoft
- Disney World
- Qatar Foundation
- Nestle
- Citi
- HSBC
- Qatar National Bank
- Qatar Central Bank
- Commercial Bank of Qatar
- GE
- Qtel/Ooredoo
- Shell
- QWIC
- Fuego
- QCRI
- Doha Int. Airport
- vodafone



Graduate Schools

- PhD, RI at SCS, CMU-P
- MS, HCII at SCS, CMU-P
- MS, CS at SCS, CMU-P
- MS, CS at University of Michigan (2)
- PhD, CS at UC Irvine
- MS, MISM at Heinz College, CMU-P
- MS, Public Policy at Heinz College, CMU-P
- MS, Oxford University
- MS, UC London
- MS, Univ. of Liverpool
- MS, VCU
- MS, Duke University
- MS, Leipzig Graduate school of Management
- MS, King's College
- MS, London School of Economics
- MS, Cass Business School London

Accepted this year

- M.Sc., CS CMU-P
- 5th Masters, RI, CMU-P
- M.Sc., HCI, CMU-P
- M.Sc., CS, Stanford
- M.Sc., CS, G Tech
- M.Sc., HCI, Univ. Mich.
- M.Sc., MIS, Univ. Arizona



Student Achievements (QCS)

- **Google Anita Borg Scholarships**
 - Keghani Kouzoujian ('09)
 - Samreen Anjum ('10)
 - Hanan Alshishabubakr ('13)
 - Sidra Alam ('13)
- **Phi Beta Kappa**
 - Hend Geddawy ('09)
- **SCS Alumni Thesis Awards ('08, '09)**
 - Noura El'Moughny ('09)
 - Hatem Alismail ('09)
- **Grace Murray Hopper Undergraduate Research Award (2013)**
 - Amna AlZeyara ('14)
- **Qatar Annual Research Award**
 - Amna AlZeyara ('14) – won in 2011
 - Dania Abedabbou ('12) – won in 2012
- **Andrew Carnegie Scholar ('09)**
 - Qatar Andrew Carnegie Scholar ('10, '11)
- **Student papers at international conferences**
 - IEEE ICRA'07, IEEE/RSJ IROS'09, ACM DEV 2010 (x2)
 - ICTD 2010, student monograph
- **5th Year Scholar**
 - Keghani Kouzoujian ('09)
 - Afnan Fahim ('13)



Student Achievements (QIS)

- Founding of the first students' chapter of the AIS association in the GCC
- AIS student chapter won the best communication award in 2011
- First place in AIS students competition in 2012, for IT risk management
 - Aamir Masood ('12)
- 1st Prize GCC Henkel competition in 2014
 - Jaasim Polin, Sarah Mustafa ('14)
- Best paper award, UCIS, 2014
 - Daniel Cheweiky ('14)
- Andrew Carnegie Scholar
 - Qatar Andrew Carnegie Scholar ('13)
- Senior honors thesis
 - Fatema Akbar ('13), Marwa Al-Fakhri ('13)
 - Seven in progress ('14)
- Student papers at international conferences, Book Chapters
 - Procedia Technology, Elsevier, The International Journal of Telemedicine and Applications
 - Information Systems and Technologies for Enhancing Health and Social Care, IGI
 - ISDOC'12, The Hamlyn Symposium on Medical Robotics'12
 - Keynote speech Ellucian Live Middle East conference on technology and education
 - UCIS'11,'12,'13,'14



Outreach Activities

- Distinguished Lectures
- Dean's Lecture Series
- Dignitaries
- Seminars
- Executive Ed, Public Workshops and Tutorials
 - E-business strategies
 - Natural Language Processing
 - Cyber Security
 - Conflict Resolution
 - Qatari Law
 - Dynamic organizational leadership
 - Bioinformatics...
- Educational Outreach
- Conferences



Distinguished Lectures

- **A. Nico Habermann Distinguished Lectures**
 - Raj Reddy, Randy Bryant, Kurt Mehlhorn, Takeo Kanade, Tom Mitchell
- **Richard Cyert Distinguished Lectures**
 - Kannan Srinivasan, Finn Kydland, Jerome Apt III
- **Patrick Crecine Distinguished Lectures**
 - John P. Lehoczky,



Dignitaries

- Hillary Clinton – Sec. of State
- Steven Chu – Sec. of Energy
- Bill Gates



Conferences

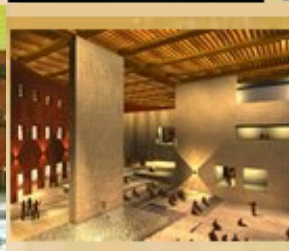
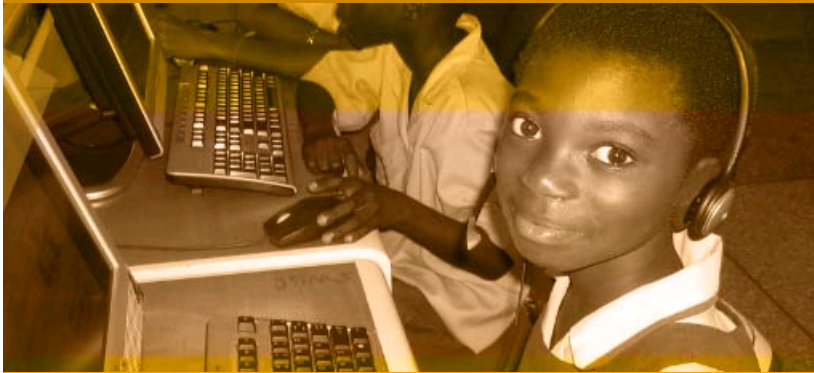
- ICTD
- LPAR 2008
- ASIAN '07



ICTD
2009

IEEE/ACM International Conference
on Information and Communication
Technologies and Development

April 17 - 19, 2009
Carnegie Mellon Qatar
Education City, Doha, Qatar



- **Keynotes by Bill Gates and Carlos Braga**
- **100+ registrations to date plus ~100 scholarship applications**
- **18 papers accepted for oral presentation**
- **27 papers accepted for poster presentation**
- **4 panels, 3 workshops, ~40 demos**

HOST ORGANIZATION

Carnegie Mellon

جامعة كارنيجي ميلون في قطر
Carnegie Mellon Qatar



ORGANIZING PARTNERS



PLATINUM SPONSORS



GOLD SPONSORS



BRONZE SPONSORS

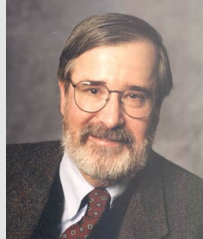


LPAR 2008

15th International Conference on
Logic for
Programming
Artificial Intelligence and
Reasoning

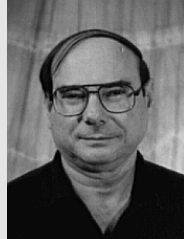
November 22-27, 2008
Doha, Qatar

<http://www.qatar.cmu.edu/lpar08>



Edmund Clarke
Carnegie Mellon University
(USA)

2007 Turing Award Recipient



Amir Pnueli
New York University
(USA)

1996 Turing Award Recipient



Michael Backes
Saarland University
and MPI-SWS (Germany)



Thomas Eiter
Technical University of
Vienna (Austria)

Top conference in computational logic

- 154 submissions (*all times record*), 45 papers accepted
- 4 prestigious invited speakers
- Peer-reviewed
- Proceedings

جامعة كارنيغي ميلون في قطر
Carnegie Mellon Qatar



الاصندوق القطري لرعاية البحث العلمي
Qatar National Research Fund

Member of Qatar Foundation

kurt gödel
society

QATAR SCIENCE &
TECHNOLOGY PARK

iHorizons™

Microsoft®
Research

Springer

Lecture Notes in
Computer Science

ASIAN'07

CONFERENCE

Twelfth Annual Asian Computing Science Conference
Focusing on Computer and Network Security
Carnegie Mellon University Qatar Campus, Doha, Qatar
December 9-11, 2007

<http://www.qatar.cmu.edu/asian07>

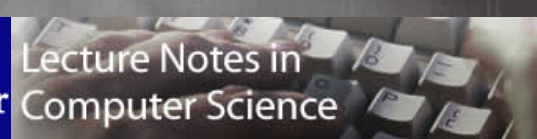
جامعة كارنيغي ميلون في قطر
Carnegie Mellon
QATAR CAMPUS



– Peer-reviewed proceedings



Lecture Notes in
Computer Science



Educational Outreach

- CS4Qatar
 - Computer Science for High School Students
- High School Programming Competition
- Botball
- Ibtikar – Innovation
- Live the Information Systems experience
- Tajer-Day – Commerce Day (BA)
- Biotechnology Explorer
- Summer College Preview Program



Pittsburgh – Qatar Interaction in Education

- 67-329: Contemporary themes in global systems: Joint global projects
- Architecture: Joint videoconference course
- 15-213 Computer Systems (Summers)
- 15-389 Cloud Computing (Springs)
- 15-418 Parallel Computer Architecture and Programming (Springs)
- 15-384 Robotic Manipulation
- Misc. History Courses



Research

- Since 2008, Qatar National Research Fund (QNRF) has been funding projects
 - NPRP – National Priorities Research Program
 - YSREP – Young Scientists Research Experience Program
 - UREP – Undergraduate Research Experience Program
- QNRF also supports Post-docs and PhD students.



Research

- CMU-Q as submitting institution was awarded
 - 32 NPRP Projects (~\$1M each)
 - 13 jointly with colleagues in CMU-P
 - 5 YSREP Projects (~\$300K each)
 - 16 UREP Projects (~\$10K each)
- Numerous Post-docs and Research Associates/Engineers employed on these projects



Thanks

- Questions?

