

# Hui Ka Hung

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## Education:

- A. Master of Philosophy (M. Phil.): The Chinese University of Hong Kong (2005- )
  - 1. Division: Information Engineering
- B. Bachelor of Engineering (B. Eng.): The Chinese University of Hong Kong (2002-2005)
  - 1. Major: Information Engineering
  - 2. Minor: Mathematics
  - 3. Honor: First Class
  - 4. GPA:
    - i. Overall GPA: 3.80
    - ii. Weighted Major GPA: 3.92
- C. Secondary School (S.1–S.7): Queen's College (1995-2002)
- D. Primary School (P.1-P.6): SKH St. Michael's Primary School (A.M.) (1989-1995)

## Working Experiences:

- A. Sep 05 - present: Teaching Assistant, Department of Information Engineering, The Chinese University of Hong Kong, Hong Kong
  - 1. Assist in teaching of the following courses
    - a. Image and Video Processing (undergraduate and postgraduate course, 2005-2006 Term 1, 2006-2007 Term 1)
    - b. Information Engineering Laboratory (undergraduate course, 2005-2006 Term 2, 2006-2007 Term 2)
    - c. Wireless Communication Systems (master course, 2006-2007 Term 1)
- B. Dec 03 - Jul 05: IT Team, Chung Chi College, The Chinese University of Hong Kong, Hong Kong
  - 1. Maintain and develop database applications with PHP and mysql
  - 2. Integrate various applications into a single one and migrate from PHP to Java Struts
- C. Jun 05 - Jul 05: Junior Research Assistant, Department of Information Engineering, The Chinese University of Hong Kong, Hong Kong
  - 1. Study sensor network and assist in supervising final year projects related to applying sensor network in medical applications
- D. Jun 04 - Aug 04: Junior Research Assistant, Department of Information Engineering, The Chinese University of Hong Kong, Hong Kong
  - 1. Analyze the characteristics of Distributed Denial-of-Service (DDoS) attacks
  - 2. Investigate the possibility of using on-line packet attribute analysis and selective packet filtering to counteract DDoS

## Publication List

- A. Partial Interference: Ka-Hung Hui, Wing-Cheong Lau and On-Ching Yue, "Characterizing and Exploiting Partial Interference in Wireless Mesh Networks," *to appear in ICC 2007*, June 2007.
- B. 3G: Ching-Wan Yuen, Ka-Hung Hui and Wing-Cheong Lau, "Theoretical Capacity for 3G (CDMA) Networks: A Survey," Feb 2006.
- C. Event Driven Architecture: Ka-Hung Hui, "Event Server with Event Processor on Mobile Device," B. Eng. Thesis, May 2005.
- D. Design Pattern: Man-Ping Grace Chau and Ka-Hung Hui, "Easy Viewing," *SDA Asia Magazine*, Issue 05.05, pp. 68-73, Oct/Nov 2005.
- E. DDoS: Ka-Hung Hui and On-Ching Yue, "Analysis of a Distributed Denial-of-Service Attack," July 2004.
- F. Remote Desktop Benchmarking: Man-Ping Grace Chau, Ka-Hung Hui, Tze-Ming Wong and Matsuba Ng, "Benchmarking on Remote Desktop Applications," Apr 2004.

**Extracurricular Activities and Posts: (Post-Secondary)**

<b>Club/Post</b>		<b>Year</b>
Club	CUSU Bridge Club/Technical Support	03
Competition	CU Bridge Team	03-06
Services	Chung Chi College IT Team/Leader	04-05
	Chung Chi College IT Team/Member	03-05

**Extracurricular Activities and Posts: (Secondary)**

<b>Club/Post</b>		<b>Year</b>
Club	Student Council/Editor in Chief	00-01
	Society of Mathematical Studies/Vice-Chairman	00-01
	Road Safety Patrol/Vice-Chairman	00-01
	Careers Councillor	00-01
	Crook House/Treasurer	00-01
Competition	Society of Mathematical Studies/Contest Trainer	00-01
	Recorder Band	96-99, 00-01
	Mathematics Team/Captain	99
Services	Road Safety Patrol/Leader	00-01
	Road Safety Patrol	95-99, 00-01
	Library Prefect	97-98

**Scholarships and Awards: (Post-Secondary)**

<b>Scholarships and Awards</b>		<b>Year of Achievement</b>
Academic (IEE Hong Kong)	The IEE Hong Kong Award for Outstanding Student 2004-2005 One recipient from Engineering Faculty of each university in Hong Kong	05
Academic (University)	Chiap Hua Cheng's Foundation Scholarship 2004/05 Three recipients from Faculty of Engineering, CUHK	05
	Kai Chong Tong Scholarship 2003/04 Two recipients from Information Engineering, CUHK	04
	Dean's List 2004-2005	06
Academic (Faculty)	Dean's List 2003-2004	05
	Dean's List 2002-2003	04
	Yu-Luan Shih Award 2004/2005	05
Academic (College)	Academic Creativity Award 2004/2005	05
	Bankee Kwan Scholarships for Interdisciplinary Mathematics Two recipients from Chung Chi College final year students minor in Mathematics	05
	Chung Chi College Departmental Prize	05
	Chung Chi College Scholarship	03, 04
	Outstanding Teaching Assistant Award	06
Teaching Assistant		
Competition	Convergence Cup	06
	Bridge competition among CUHK, HKU and HKUST 1 <sup>st</sup>	

## Scholarships and Awards: (Secondary)

Scholarships and Awards		Year of Achievement
Academic	Pang Kwing Kei Advance Study Scholarship	02
	Intermediate Morrison Scholarship	02
	Morrison Distinction Prize: Distinction in Pure Mathematics, Physics and Chemistry	00, 02
	Li Po Chun Scholarship	01
	Morrison Scholarship Internal	96, 97, 98, 99, 00, 01
	Belilios Scholarship: 1 <sup>st</sup> in Mathematics & Additional Mathematics	00
	Steve Kam Wai Sin Memorial Scholarship	99
	Cheung Hok Chau Mathematics Prize: 1 <sup>st</sup> in Mathematics	96, 98
	Ricky Fung Chinese Prize: 1 <sup>st</sup> in Chinese History	97
	Ho Iu Scholarship: 1 <sup>st</sup> in Geography	97
	Ng In Scholarship: 1 <sup>st</sup> in Integrated Science	97
	Competitions (Mathematics)	International Mathematical Olympiad Hong Kong Preliminary Selection Contest: Bronze Award
Inter-School Mathematics Competition 1999: Individual Event: 1 <sup>st</sup>		99
Inter-School Mathematics Competition 1999: Group Event: 1 <sup>st</sup>		99
1 <sup>st</sup> Joint School Mathematics Olympiad: Individual Event: 3 <sup>rd</sup>		99
1 <sup>st</sup> Joint School Mathematics Olympiad: Group Event: 3 <sup>rd</sup>		99
16 <sup>th</sup> Hong Kong Mathematics Olympiad: Hong Kong Region: 3 <sup>rd</sup>		99
Joint School Mathematics Competition: 1 <sup>st</sup>		99
Competitions (Music)	Raymond Huang Morning Sun Music Scholarship	01
	Hong Kong Schools Music Festival: Recorder Duet Age 18 or under: Merit	01
	Hong Kong Schools Music Festival: Descant Recorder Solo Age 18 or under: Merit	01
	Hong Kong Schools Music Festival: Recorder Ensemble: 3 <sup>rd</sup> /Merit	98, 01
	Hong Kong Schools Music Festival: Recorder Duet Age 18 or under): Merit	99
	Hong Kong Schools Music Festival: Descant Recorder Solo Age 16 or under: 3 <sup>rd</sup> /Merit	98
	Hong Kong Schools Music Festival: Recorder Duet Age 15 or under: Merit	98
Services	Road Safety Patrol: Long Term Service Award	01
	Very Good Service Award	99, 01
	Road Safety Patrol: Excellent Service Award	96, 99