

# CHERYL CHUNYAN QU

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## EDUCATION

### TEXAS A&M UNIVERSITY

PhD; Department of Chemical Engineering  
Process Monitoring and Optimization

### COLLEGE STATION, TX

Expected Aug.2009

### NATIONAL UNIVERSITY OF SINGAPORE

M.Eng.; Department of Electrical and Computer Engineering  
Automatic Control

### SINGAPORE

Jun. 2003

### ZHEJIANG UNIVERSITY

B.Eng.; College of Information Science and Engineering  
Industrial Automation

### HANGZHOU, CHINA

Jul. 2000

## EXPERIENCE

### TEXAS A&M UNIVERSITY

Graduate Research Assistant  
Advisor: Professor Juergen Hahn  
Department of Chemical Engineering

### COLLEGE STATION, TX

Aug.2005 to Present

### CH2M HILL COMPANIES LTD

Lead Monitoring & Control System Engineer  
Monitoring & Control System Engineer  
Water Business Group

### SINGAPORE

Feb. 2004 to Jul.2005

Jul. 2003 to Feb.2004

### NATIONAL UNIVERSITY OF SINGAPORE

Research Scholar  
Advisor: Professor Loh Ai Poh  
Department of Electrical & Computer Engineering

### SINGAPORE

Jan.2001 to Jun.2003

## HONORS & AWARDS

Spot Award, Ch2mHill Companies Ltd.	2004
Research Scholarship, National University of Singapore	2001-2002
Guanghua (Honor) Scholarship, Zhejiang University	1998
Liuyongling (Honor) Scholarship, Zhejiang University	1997
Freshman Scholarship, Zhejiang University	1996

## PUBLICATIONS & PRESENTATIONS

C. Qu and J. Hahn. Abnormal Situation Management: Process Monitoring via EKF, UKF and MHE. *Mary Kay O'Connor PSC 2007 Symposium*, Bryan, Texas, *PSTC Fall Meeting*, Austin, Texas Oct 2007.

C. Qu and J. Hahn. Fault Diagnosis for Plant Operations and HAZOP Design/Improvement. *PSTC Spring Meeting*, College Station, Texas, Apr 2007.

C. Qu and J. Hahn. Process Monitoring and Parameter Estimation Via Unscented Kalman Filtering. *AlchE spring meeting*, Houston, Texas, Apr 2007.

A. P. Loh, C. Qu and K. F. Fong. Adaptive Control of discrete time systems with concave/ convex parameterization. *IEEE Transactions on Automatic Control* Vol. 48, No. 6, Jun 2003

C. Qu and A. P. Loh. Adaptive Control of discrete time systems with nonlinear parameterization. *15th IFAC World Congress on Automatic Control*, Barcelona, Spain, Jul 2002.