

COLORADO STATE UNIVERSITY, DEPT OF CHEMICAL ENGINEERING • FORT COLLINS, CO 80523  
PHONE (970) 491-3287 • FAX (970) 491-7369 • E-MAIL: JINSOOUH@ENGR.COLOSTATE.EDU

## JINSOO UH

### EDUCATION

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August 2000 – December 2005                      Texas A&M University  
*Ph. D. Chemical Engineering (4.0/4.0)*  
Dissertation Title: *Nuclear Magnetic Resonance Imaging and Analysis for  
Determination of Porous Media Properties*

March 1994 – February 1996                      Seoul National University, Korea  
*M.S. Chemical Engineering (3.8/4.3)*

March 1990 – February 1994                      Seoul National University, Korea  
*B.S. Chemical Engineering*  
Graduated with Magna Cum Laude (3.8/4.3)

### EXPERIENCES

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Oct 2005 – present                      Research Scientist, Colorado State University, Ft. Collins, CO  
Sep 2002 – Aug 2005                      Visiting Research Associate, Colorado State University,  
Ft. Collins, CO

Jan 2001 – Aug 2005                      Research Assistant, Texas A&M University, College Station, TX  
Oct 1996 – Jan 2000                      Maintenance Officer, Republic of Korea Air Force, Wonju, Korea  
Mar 1994 – Feb 1996                      Research Assistant, Seoul National University, Seoul, Korea  
Aug 1992                                      Summer Research Assistant, LG R&D center, Daejeon, Korea

### RESEARCH INTEREST

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- Characterization of porous media properties and structures associated fluid transport
- Development of novel magnetic resonance imaging protocols for detecting fluid relaxation and transport within permeable media
- Modeling NMR responses and identification of the associated system parameters
- Stochastic global optimization using parallel computing

### SKILLS

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- Windows, Linux, Beowulf cluster
- Fortran, C/C++, MATLAB, Latex
- Message Passing Interface programming

- Bruker Biospec® 2.35/3.0
- NMR pulse programming with ParaVision®
- Machinery works with lathe/milling machine

## PUBLICATIONS AND PRESENTATIONS

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- Uh, J. and Watson, A. T. 2005. Estimation of NMR Relaxation Distribution Using Nonparametric Approach. Submitted
- Uh J. and Watson, A. T. 2005. Modeling Fluid in Permeable Media. In: Stapf, S. and Han, S., editor. Nuclear Magnetic Resonance Imaging in Chemical Engineering. Weinheim, Germany, Wiley-VCH.
- Uh, J. and Watson, A. T. 2004. Modeling Flow in Heterogeneous Permeable Media. *The 45th biannual New Mexico Regional Nuclear Magnetic Resonance (NMR2) meeting*, Salt Lake City, UT (Oral Presentation)
- Uh, J. and Watson, A. T. 2004. Determination of NMR Relaxation Distributions and Estimation of Multi-Dimensional Porosity Distributions in Heterogeneous Porous Media. *AIChE National Conference*, Austin, TX (Poster)
- Uh, J. and Watson, A. T. 2004. Determination of Permeability Distributions Using Magnetic Resonance Velocity Imaging Data. *AIChE National Conference*, Austin, TX (Oral Presentation)
- Uh, J. and Watson, A. T. 2004. Nuclear Magnetic Resonance Determination of Surface Relaxivity in Permeable Media. *Ind. Eng. Chem. Res.* **43**: 3026-2032
- Uh, J. and Watson, A. T. 2002. Nuclear Magnetic Resonance Determination of Surface Relaxivity in Porous Media. *AIChE National Conference*, Indianapolis, IN (Oral Presentation)
- Watson, A. T., Hollenshead, J. T., Uh, J., and Chang, C. T. P. 2002. NMR Determination of Porous Media Property Distributions. *Annual Reports on NMR Spectroscopy.* **48**: 113-144.