

Jungup Park

Local Address: 12443 Tech Ridge Blvd. #328, Austin, TX 78753 (317) 517-3936
Permanent Address: 1396-1 Sangin-Dong Dalseo-Gu, Daegu, South Korea (53) 631-3771
Email: jpark21@utexas.edu

EDUCATION

University of Texas at Austin Austin, TX
Graduate Research Assistant in Chemical Engineering August 2011 – Present
Advisor: Thomas Edgar and Michael Baldea

Carnegie Mellon University Pittsburgh, PA
Bachelor of Science in Chemical Engineering August 2007 – May 2011
Double Major in Biomedical Engineering
GPA: 3.69/4.0

PROJECT

Hybrid Methods for Fault Detection and Isolation in Batch-Continuous Processes Jan 2012 – Present

PFPE Molecular Simulation, Supervised by Myung S. Jhon May 2010 – May 2011

- Received the Summer Undergraduate Research Fellowship from the department.
- Found the effect of bending and torsion on perfluoropolyether (PFPE) molecules and the spin of the molecules via molecular simulation.
- Discussed the results with the fellow researchers and the professor monthly.

Adaptive Controller on Continuous Bio-Reactor, Supervised by Erik Ydstie Fall 2009 – May 2011

- Examined the adaptive controller on a continuous reactor using different control variables.
- Discussed the results with the professor weekly.
- Presented the final results to the professor.

Voluntary Medical Service to Da Nang, Vietnam, July 2009

- Set up the clinic in the local public health center for the doctors.
- Guided patients to get their prescribed medications.

PUBLICATION

Integrated Sub-mesoscale Modeling of Head/Disk Interface, Pil Seung Chung, **Jungup Park**, Robert Smith, Dehee Kim, Sessa Hari Vemuri, and Myung S. Jhon, 2010. (Under Review for Journal of Applied Physics)

WORK EXPERIENCE

Carnegie Mellon University Computing Services Pittsburgh, PA
COMPUTING @ CARNEGIE MELLON TEACHING ASSISTANT, Fall 2008 – Spring 2010

- Participated in a weeklong training session in the summer to further develop teaching skills.
- Taught more than 200 students basic computing skills required at the University.
- Graded and reported the students' weekly performances.

SKILLS

COMPUTER: Adobe Dreamweaver, Java, Matlab, MathCad, MS Office, OCTA, Simulink, Windows XP/Vista/7, Mac OS
SPOKEN LANGUAGE: Fluent in English and Korean

ACTIVITIES & HONORS

Carnegie Institute of Technology Dean's List, Fall 2007 – Spring 2008, Spring 2009 – Spring 2011
Summer Undergraduate Research Fellowship, Summer 2010

F-1 Visa Student