

WONJIN JO

E-mail: jotwinkle019@gmail.com

Phone: 215-384-8112

EDUCATION

- Graduate:** **Ph.D. Candidate (2008. 9- Present)**
DREXEL UNIVERSITY, Philadelphia, PA
 * 3.94/4.0 Cumulative grade point average
- Master of Science in Mechanical Design Engineering (2005-2007)**
CHONBUK NATIONAL UNIVERSITY, Jeonju, Jeonbuk, Republic of Korea
 * 4.0/4.0 Cumulative grade point average
- Undergraduate:** **Bachelor of Science in Mechanical Engineering (1999-2003)**
CHONBUK NATIONAL UNIVERSITY, Jeonju, Jeonbuk, Republic of Korea
 * 3.4/4.0 Cumulative grade point average
-

RESERCH EXPERIENCES

- Blood viscosity measurement project, Thrombogenic potential measurement project
 - Measure blood viscosities of Stroke patients at Chonbuk National University Hospital
 - Study mechanisms of silica formation and treatment of silica fouling in Geothermal power plant
 - Examine the effect of solid freeform fabrication based on direct cell writing process (Tissue engineering)
 - Study the effect of iron oxide nanoparticle on cell viability that are tested with Live/Dead Assay, Alamar Blue Assay
 - Study mechanisms of ROS formation in cells loaded nanoparticle
 - Nanoparticle movement within the tissue engineered structures that are printed with different concentrations of alginate gel
 - Synthesis of gold nanorods by wet chemical method and examine the photon-to-thermal conversion characteristics of the synthesized gold nanorods
-

PROJECTS AND PUBLICATIONS

- Published papers:
 - Kivilcim Buyukhatipoglu, **Wonjin Jo**, Wei Sun, Alisa Morss Clyne. “**The role of printing parameters and scaffold biopolymer properties in the efficacy of a new hybrid nanobioprinting system**”, *Tissue Engineering*, Vol 1, No. 3, pp. 035003, 2009.
 - **Won Jin Jo**, Bock Choon Pak, Dong Hwan Lee. “**A novel viscosity measurement technique using a falling ball viscometer with a high-speed camera**,” *KSTLE International Journal*, Vol . 8, No. 1, pp. 16-20, 2007.

- **Won Jin Jo**, Bock Choon Pak, Young I Cho. “**A novel viscosity measurement technique using a falling ball viscometer with a high-speed camera,**” *KSME National Conference*, pp. 14-19, 2006.
 - Master’s Degree Thesis: “A novel viscosity measurement technique using a falling ball viscometer with a high-speed camera”, Chonbuk National University, 2007
-

AWARDS AND DISTINCTIONS

- **Research Assistant**, at Drexel University, 2008-2010
 - **Teaching Assistant**, at Drexel University
 - MEM 345- Heat Transfer (Winter, 2008-2009)
 - MEM 220- Basic Fluid Mechanics (Summer, 2008-2009)
 - **Teaching Assistant**, at Chonbuk National University, 2005-2006
 - **Scholar**, Academic Scholarship, Chonbuk National University, 1999-2003
 - **Fellowship**, Dean’s fellowship, Drexel University, 2009-2010
 - **Researcher**, Automobile Hi-Technology Research Center, Engineering Research Institute of Chonbuk National University, 2005-2006
-

EXPERIENCES

- **Training/Workshop/Seminar**
 - ✓ Data Acquisition and Signal Conditioning Course Certificate of Training received from National Instruments, March 4, 2005
 - ✓ Catia V4 Seminar, Chonbuk National University, Jeonju, Korea, 2001
- **Volunteer Activities**
 - ✓ English interpreter at Pan Asia Paper Museum, The 2002 World cup
- **Club Activities**
 - ✓ Korean-American Scientists and Engineers Association (KSEA) Philadelphia Chapter, Member, ID 828545 (July 2009-Present)
 - ✓ Taught teenagers at Seosin Roman Catholic, 1999-2001, and representative of teachers, 2001
 - ✓ Organized and initiated quality programs and activities like camps, volunteer program (help old people and a mentally retarded child), a pilgrimage to the Holy Land, athletic meetings, and Christmas performances.
 - ✓ Participated in the European Floristry Exhibition, *Ring*, Coex Center, 2004
 - ✓ A member of KSEA (Korean Student Engineering Association) at Drexel University, 2008~
- **As a florist/flower artist**
 - ✓ Flower shops, 2003-2004
 - ✓ Intercontinental Hotel, Christmas Decoration Part, 2004
 - ✓ Flower artist, with a Certificate of European Floristry received from Wellant College, The Netherlands, October 14, 2004