# Curriculum Vitae

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# GangSeob JUNG

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## EDUCATION

**PhD Candidate** in Civil & Environmental Engineering
Massachusetts Institute of Technology, Department of CEE (Cambridge, U.S.) **09/2013 - present**
ADVISOR: Markus J. Buehler

**Master of Science** in Physics
The University of Tokyo, Department of Physics (Tokyo, Japan) **04/2006 - 03/2008**
THESIS: “Extended Ensemble Molecular Dynamics for Predicting Material Structure”
ADVISOR: Shinji Tsuneyuki

**Bachelor of Science** in Physics, (graduation with first prize )
University of Tsukuba, College of Natural Science (Tsukuba, Japan) **04/2002 - 03/2006**

**Preparatory school of Japan-Korea Joint Government Scholarship Program**
University of Tsukuba (Tsukuba, Japan) **10/2001 - 03/2002**
Kyung Hee University (Seoul, Korea) **03/2001 - 09/2001**

**High School Diploma**
Gyeonggi Science High School (Suwon, Korea) **03/1998 - 02/2001**

## WORK EXPERIENCE

**Researcher, KISTI** (Korea Institute of Science and Technology Information) **07/2011 - 07/2013**
**Supercomputing Center** (National Institution of Super Computing in 2013) (DaeJeon, Korea)
To develop molecular dynamics tools (MM_PAR) with MPI, OpenMP, CUDA

**Research Engineer, LG DISPLAY (for military duty)** (Paju, Korea) **03/2008 - 07/2011**
In/On Cell Touch LCD Project : to develop touch sensors integrated in LCD

## COMPUTER SKILLS

**Programming Languages** : C/C++, Python, Fortran
**Scientific Applications** : Matlab, ANSYS, ABAQUS, GROMACS, NAMD, LAMMPS
Quantum Espresso, DFTB+
**Others** : MPI, OpenMP, CUDA

## FELLOWSHIPS & AWARDS

**Japan-Korea Joint Government Scholarship Program** **03/2001 - 03/2006**
**University of Tokyo Fellowship** **04/2006 - 03/2008**
**LG DISPLAY Industrial Scholarship** **04/2007 - 03/2008**
**Presidential Graduate Fellowship (Edward H. Linde), MIT** **09/2013 - 05/2014**
**The first place prize, University of Tsukuba** **03/2006**

## PUBLICATIONS

### PAPER

**Molecular mechanics of polycrystalline graphene with enhanced fracture toughness** **01/2015**
**CEE@MIT News in Brief**
**Mechanical Properties and Failure of Biopolymers: Atomistic Reactions to Macroscale Response** **06/2015**
Master Thesis (The University of Tokyo, Japan) **01/2008**
Title : “Extended ensemble molecular dynamics for predicting material structure”