

Curriculum Vitae

Yae Ji Kim

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EDUCATION

Purdue University, School of Materials Engineering, Purdue University

Graduate student, Aug. 2009 - present.

Yonsei University, School of Advanced Materials Engineering

Bachelor of Science, Aug. 2009

Concentration in Material Science and Engineering, GPA: 3.53/4.3

University of California, Los Angeles

Study Abroad Program, Jun. 2007 – Aug. 2007

Thermodynamics of materials and ESL (English as a Second Language)

EXPERIENCE

Graduate Research Assistant Aug. 2009-present.

School of Materials Engineering, Purdue University

Teaching Assistant Aug. 2010-Dec. 2019

School of Materials Engineering, Purdue University

RESEARCH

Research title Thermo-mechanical properties of polymer nanocomposites

Alejandro Strachan group, School of Materials Engineering, Purdue University

Conference presentation

“Mechanical Response of the PMMA-CNT Nanocomposite via Molecular Dynamics”,
Yae Ji Kim, Eugenio Jaramillo, Benjamin Haley, Alejandro Strachan, TMS 2012 annual
meeting, Orlando, Florida, March 12, 2012

Undergraduate Graduation Thesis Sept. 2008 – Dec. 2008

Nano Structure Materials Laboratory, Yonsei University

- Focus on low reflectance to enhance photo-harvesting efficiency of photovoltaic cells and

design stemming from hetero-structure, using horizontal CVD, SEM, and UV Spectrophotometer

Creative Design Program Mar. 2008 – Jun. 2008

Nano Structure Materials Laboratory, Yonsei University

- Emphasis on dispersion and entrapment of photon depending on nanowire structure

differences with horizontal CVD, SEM, and UV-Spectrophotometer

Women Interns Going Global Campaign Jan. 2008 – Feb. 2008

Mechanical Engineering Department, Louisiana State University

- Researched nanofabrication technology to minimize pattern defects caused by the adhesion of

PMMA (methyl-methacrylate) with temperature and pressure control during the demolding in NIL (nano-imprinting lithography) optimization using spin-coater, silane-coater MTS, RIE

SCHOLARSHIPS

- Korea Educational Science Institute Intern Scholarship
- Korea Research Foundation Academic Scholarship
- Yonsei University Undergraduate Research Scholarship