Youngjoon Suh

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Personal Information

Date of Birth: 08/06/1981
Place of Birth: Evanston Illinois
Citizenship: United States of America
Gender: Male
Marital Status: single
My profile in LinkedIn: https://www.linkedin.com/in/young-joon-suh-60975b2a/
Github: youngs508 (Suh Young Joon) (github.com)

Experience

"Introduction to artificial intelligence" at Udacity
"Deep Learning" at Udacity
"Master the Coding Interview: Data Structures + Algorithms" at Udemy
"Python web development all-in-one package Online" at fast campus

EDUCATION

Visiting Scientist *Mar.2013-Sep.2017* — Korea Institute of Science and Technology, Seoul, Korea

Post. Doc. *Sep. 2012-Feb.2013* — Bioengineering, The University of California at Berkeley, Berkeley, California

Ph. D. *Sep.2008-Aug.2012* — Electrical Engineering, The University of Texas at Dallas, Richardson, Texas
Dissertation entitled "High resolution TEM and 3D imaging of polymer-based and dye sensitized solar cells"

M. S. *Jun.2006-Aug.2008* — Electrical Engineering, The University of Texas at Dallas, Richardson, Texas

B. S. *Mar.2001-Feb.2006* — Electrical Engineering, Yonsei University, Seoul, Korea

RESEARCH AREAS

Graphene in M. S., Solar cells in Ph. D., CdTe, Lead Selenide in KIST, Corrosion of Sprinkler in Suh and Suh corrosion engineering, Python language scripting

EXPERIMENTAL SKILLS

- Experience of TEM simulation software **JEMs** for SAD, Kikuchi, and stereographic projection especially for graphene.
- Highly skilled in TEM specimen nanofabrication using SEM/FIB (FEI, DUAL BEAM Nova 200 NANOLAB and NANOMANIPULATOR CONTROLLER).

- Highly skilled in specimen observation in nanometer scale using TEM (JEOL, JEM-2100F) w/ Gatan **Digitalmicrograph** software.
- Highly skilled in TEM related energy-dispersive X-ray spectroscopy (EDS) for composition analysis and electron tomography for 3D morphology observation.
- Extensive practice in electron tomography software
  - A series of TEM image acquisition using **SerialEM**.
  - TEM image alignment and reconstruction using **IMOD**.
  - 3D image visualization using **UCSF Chimera** and **Amira**.

*Other kinds of techniques

-Chemical bath deposition.
-Sensitization (Oxidation, Iodination).
-Whole process of Photo-Lithography technique.
-Thermal evaporation technique.
-I-V curve characterization.
-Infrared light detection.
-Nucleation and Growth of CdTe single/multi crystals.

RELEVANT TRAINING AND COURSE WORK

Fields and waves, Quantum physical electronics, Fundamentals of semiconductor devices, semiconductor processing tech., electronic materials, semiconductor process integration, spec top in microelectronics, introduction to materials science, advanced electron microscopy, advanced electron microscopy lab, Co-work with Sematech about the geometry of graphene and carbon related materials.