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EDUCATIOIN

Ph.D. in Earth Sciences, Ohio State University, Columbus, USA **Mar. 2011**

- Dissertation: "Wetland hydrodynamics using interferometric synthetic aperture radar, remote sensing, and modeling"

M.Sc. in Earth System Sciences, Yonsei University, Seoul, Korea **Aug. 2003**

- Thesis: "Observation of the ground subsidence in Gaeun area using permanent scatterer interferometric synthetic aperture radar"

B.Sc. in Geology, Yonsei University, Seoul, Korea **Feb. 1998**

WORK EXPERIENCE

Associate Professor, Dept. of Earth System Sciences, Yonsei University **Mar. 2023-Present**

- Satellite Geosciences, Satellite Hydrology

Joint Associate Professor, University of Science & Technology (UST), Ocean Science and Technology (OST) **Mar. 2021-Feb. 2023**

- Coastal remote sensing

Senior Research Scientist, Korea Ocean Satellite Center, Korea Institute of Ocean Science and Technology (KIOST) **Mar. 2020-Feb. 2023**

- Spatio-temporal variability of coastal wetlands using Synthetic Aperture Radar
- Development of satellite-based system on monitoring and predicting ship distribution in the contiguous zone

Chief Research Scientist, NASA Goddard Space Flight Center (GSFC) & Science Systems and Applications, Inc (SSAI) **Jul. 2016-Mar. 2020**

- A West Africa LDAS for forecasting extreme hydrological Events
- Hydrologic modeling for monitoring water availability

Lead Research Scientist, NASA Goddard Space Flight Center (GSFC) & Science Systems and Applications, Inc (SSAI) **Jan. 2015-Jun. 2016**

- LIS (Land Information System) modeling
- Precipitation analysis associated with hydrological modeling
- Water balance and resource studies using satellite observations
- Radar flood mapping

Research Associate, NASA Goddard Space Flight Center (GSFC) & University of Maryland (UMD) **Jan. 2014-Jan. 2015**

- CREST hydrological model
- Radar application on ecosystem and hazard

Postdoctoral Researcher, NASA Goddard Space Flight Center (GSFC) & Oak Ridge Associated Universities (ORAU) **Jan. 2011-Jan. 2014**

- Advisor: Michael Jasinski
- 2D floodplain hydrodynamic LISFLOOD model
- Interferometric SAR application to wetland

Graduate Research Assistant, The Ohio State University **Jun. 2005-Dec. 2010**

- Advisor: Douglas Alsdorf
- Associated with Byrd Polar Research Center (BPRC)
- L-band repeat-pass interferometric SAR applications to the Amazon and Congo Wetlands
- Delineation of flood inundation using Landsat and MODIS optical imagery
- Demonstration of sea level rise using SRTM topography
- Development of MATLAB computer programs for SWOT mission orbit design

Research Assistant, Yonsei University **Sep. 2003-May 2005**

- Associated with Natural Science Research Institute (NSRI)
- Application of permanent scatterer differential interferometric synthetic aperture radar to coal mining area

Graduate Research Assistant, Yonsei University **Sep. 2001-Aug. 2003**

- A study of seismology, remote sensing, and GIS for subsurface structure, landslide, and ground subsidence in coal mining areas.
- Performed fieldwork including ground water, gravity, GPS.