

HAHN CHUL JUNG, PH.D.

645 Science Hall
50 Yonsei-ro, Seodaemun-gu
Seoul, KOREA 03722

Office: (82) 2-2123-2677
Fax: (82) 2-2123-8169
E-mail: hahnchul.jung@yonsei.ac.kr

EDUCATION

- 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.