

CURRICULUM VITA

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EDUCATION

Aug. 2001	Ph.D. in Coastal & Oceanographic Engineering University of Florida, Gainesville, FL, United States
Aug. 1995	M.S. in Oceanography Seoul National University, Republic of Korea
Feb. 1991	B.S. in Oceanography Seoul National University, Republic of Korea

WORK EXPERIENCE

Jun. 2024 ~ Present	Director of KIOST School, Korea Institute of Ocean Science and technology, Republic of Korea
Mar. 2023 ~ Present	Vice-Chair, London Convention & London Protocol Scientific Group, International Maritime Organization (IMO)
Sep. 2017 ~ Present	Delegation of the Republic of Korea, London Convention and London Protocol
Dec. 2016 ~ Present	Senior & Principal research scientist at KIOST, Republic of Korea
Jul. 2013 ~ Dec. 2016	Research Scientist at KIOST, Republic of Korea
Jul. 2004 ~ Jul. 2013	Research Scientist at the Rosenstiel School of Marine and Atmospheric Science (RSMAS),

University of Miami, United States

Sep. 2001 ~ Dec. 2003

Post-Doc at the Department of Marine Science at
the University of North Carolina at Chapel Hill,
United states

AWARDS

1. Commendation by Minister of Science and ICT, Republic of Korea (2022.04)
2. Research Achievement Award by KIOST, Republic of Korea (2021.01)
3. Teaching Award by University of Science & Technology, Republic of Korea (2020.12)

RESEARCH INTERST

1. Coastal protection from disasters such as beach erosion
2. Marine environment protection, in areas related to London Convention & Protocol

PUBLICATIONS (since 2019)

2024: Swash-zone formula evaluation of morphological variation in Haeundae Beach, Korea, Water

2024: Induced waves from Typhoon Maysak: model optimization and evolution characteristics in Yeongil Bay, South Korea, Journal Coastal Research

2023: Deconstructing the causes of July sea level variability in the East Sea from 1994 to 2021, Frontiers in Marine Science

2023: Revised system for shallow-water design wave estimation on the coast of the Republic of Korea based on numerical model data, Ocean and Coastal Management

2023: Infragravity wave height dependency on short wave parameters – observations on the east coast of South Korea, Frontiers in Marine Science

2022: Wave Transformation behind a Breakwater in Jukbyeon Port, Korea – a Comparison of TOMAWAC and ARTEMIS of the TELEMAC System, Journal of Marine Science and Engineering

2022: Numerical Simulation of the Locality of Erosional Damages by Storm Waves in Searching for Measures to Conserve Bonggil Beach, Korea, *Frontiers in Marine Science*

2022: Wave Height Reduction Inside Pohang New Port, Korea, Due to the Construction of a Detached Breakwater, *Journal of Marine Science and Engineering*

2021: Observation of nearshore crescentic sandbar formation during storm wave conditions using satellite images and video monitoring data, *marine Geology*

2021: Turnover Time of the East Sea (Sea of Japan) Meridional Overturning Circulation, *Frontiers in Marine Science*

2021: Monitoring of Recovery Process at Yeongildae Beach, South Korea, Using a Video System, *Applied Sciences*

2021: Intelligent Buoy System (INBUS): Automatic Lifting Observation System for Macrotidal Coastal Waters, *Frontiers in Marine Science*

2021: Collapse of a Coastal Revetment Due to the Combined Effect of Anthropogenic and Natural Disturbances, *Sustainability*

2020: Hydrodynamic Measurements of Propagating Waves at Different Nearshore Depths in Hujeong Beach, Korea, *Journal of Marine Science and Engineering*

2020: Estimation of longshore sediment transport using video monitoring shoreline data, *Journal of Marine Science and Engineering*

2020: Overview of the Policies for Phasing Out Ocean Dumping of Sewage Sludge in the Republic of Korea, *Sustainability*

2020: Three dimensional numerical modeling using a multi-level nesting system for identifying a Water layer suitable for scallop farming in Tongyeong, Korea, *Aquacultural Engineering*

2020: Measurement of Nearshore Seabed Bathymetry using Airborne/Mobile LiDAR and Multibeam Sonar at Hujeong

Beach, Korea, Journal of Coastal Research

2020: Numerical investigation of the effect of wave diffraction on beach erosion/accretion at the Gangneung Harbor, Korea, Journal of Hydro-Environment Research

2020: Comparison of Turbulent Flows and Suspended Sediment Particle Motions Simulated around a Submerged Breakwater Using RANS and LES, Ocean Science Journal

2019: Video monitoring of shoreline positions in Hujeong Beach, Korea, Applied Science

2019: Observation of rapid seabed erosion near closure depth during a storm period at Hujeong beach, South Korea, Geophysical Research Letters