Junsung Kwon

Department of Earth System Sciences

College of Science

Yonsei University

e-mail: earth@yonsei.ac.kr

50, Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea

[Updated Feb. 2026]

Education & Scholarship

Yonsei University (Seoul, Korea) 2020 - 2025

Bachelor of Science in Earth System Sciences (Mandatory Military Service: 2022~2024)

Ranked 1st in the department (Senior year, based on cumulative GPA)

Pukyong National University (Busan, Korea) 2018 - 2020

Earth and Environmental Sciences, transferred

Full merit-based scholarship - Spring, Fall semester 2018, Fall semester 2019

Newcastle University (Newcastle upon Tyne, United Kingdom) 2019

Geoscience, School of Natural and Environmental Sciences, exchange student programme

Global Exchange Scholarship (Spring, 2019)

Field Experience

Lake District National Park, England, United Kingdom March 2019

Anthropogenic heavy metal contaminated ground water analysis

Northumberland Coasts, England, United Kingdom April - May 2019

Quaternary sedimentary structures analysis, Columnar sections plotting,

thin section samples observation

South Shields, England, United Kingdom May 2019

Soil mechanics based physical experiments

Igidae Coast, Busan, Republic of Korea September 2019

Composite dyke and micro-granular enclaves' formation process analysis

Yangsan, Gyeongsangnam-do, Republic of Korea October 2019

Yangsan fault systems' paleoseismic history and stress regime analysis

Danyang, Chungchungbuk-do, Republic of Korea November 2019

Sedimentary structures, fault system, fold geometry analysis, geological map plotting

Relevant Academic Courses & Tools

Understanding of Stratigraphy / Sedimentary Environments / Sedimentary Petrology / Introduction to Sedimentary Records / Basin Analysis / Structural Geology and Lab / Geophysics and Lab / Geodynamics / Basic Mechanics in Geological Sciences / Planetary Science / Geotechnical Properties of Soils and Rocks / Submarine Geology/ Software Programming / Geomatics for Earth System Sciences / Data Analysis for Earth Sciences/ Sediment Transport / Satellite Hydrology / Fluid Dynamics (Audit)

Petrel Advanced Geoscience and Geomechanics (Schlumberger) April 2025

Deep Learning Using Python (Yonsei Data Science Lab) April 2025

QGIS, Python, Petrel, MATLAB, Paleoscan, Adobe Illustrator, Adobe Photoshop

Awards and Presentations

Excellence Award for Poster Presentation October 2025

Fluvial Geometry Patterns Shaped by Rift Tectonics

President's Award for Poster Presentation, KNOC (Korea National Oil Corporation)

Korea Geological Society Fall meeting

AGU 2025 Poster Presentation December 2025

Long-term Sinuosity Patterns Shaped by Rift Tectonics:

Evidence from Jeju Basin 3D Seismic Data

Lab Experience

Visiting Graduate Student

Jackson School of Geosciences, Austin, University of Texas
Quantitative Clastics Lab, Bureau of Economic Geology (Jan 2026 – Feb 2026)

Research mentorship: Dr. Zoltan Sylvester, Dr. Jacob Covault

Chenliang Wu, Wonsuck Kim, **Junsung Kwon**, Sojung Jung, Minsik Kim, Duhwan Keum, Kyoungwon Ha, Jiyoung Lee, Yunhyeong Lee, Jaehyung Lee, Dayoung Jung, Byongsuk Chun (2022), Revitalizing the Harold Fisk 1944 Mississippi River Valley Maps, AGU Fall meeting

Senior thesis at Morphodynamics and Quantitative Stratigraphy Lab
(August 2022 ~ September 2022)

Advisor: Prof.Wonsuck Kim, Dr.Chenliang Wu

Coastal Erosion Research Department, East Sea Environment Research Center, Korea Institute of Ocean Science and Technology (KIOST) Summer Internship

- Participated in a research expedition to the East Sea Basin for hydrographic surveys using CDT, collected seafloor sediment samples using a Grab Sampler.
- Assisted on board field surveys to monitor suspended sediments dynamics and in costal environments (LISST-100X for in situ particle size distributions)
- Utilized SENTINEL-2 satellite images for time series monitoring of barrier islands at Nakdong River. Coastsat python library for extracting annual shorelines
- Conducted walking surveys with RTK-GPS and drones for shoreline mapping along Hoojung Beach.

(June 2022 ~ August 2022)

Advisor: Dr. Jaeyoull Jin, Dr. Jongdae Do

Teaching Experience

Sedimentary petrology, TA (English course) Spring 2025

Yonsei University

Undergraduate thesis supervision Fall 2025

Mentee: Jiwoo Kang - Fluvial geometry patterns in Jeju Basin

Received an excellence poster presentation award