

YunHyeong Lee

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EDUCATION

Yonsei University

PhD

Sep, 2024 –

M.S in Geological Science

Mar, 2022 – Feb, 2024

Thesis: A study on relationship between water temperature and ripple size in sand bed: Flume experiment

Kangwon National University

B.S in Geology

Mar, 2015 – Feb, 2021

GPA : 4.39/4.5

Related Coursework:

Geology:

General Earth Science & Lab 1 and 2, Historical Geology & Lab, Hydrogeology & Lab, Paleontology & Lab, Stratigraphy, Mineralogy & Lab, Petroleum Geology, Natural Resources Information Analysis, Economic Geology & Lab, Sedimentary Geology & Lab, Igneous Petrology & Lab, Structural Geology & Lab, Geochemistry & Lab, Optical Crystallography & Lab, Quaternary Geology, Metamorphic Petrology & Lab

Geophysics:

Introduction to Geophysics, Introduction to Geophysical Exploration & Lab, Seismic Exploration, Interpretation of reflection data for petroleum exploration, Applied Geology & Lab, Rock Mechanics & Lab

WORK EXPERIENCE

Yonsei University

Researcher

Mar, 2024 – Sep, 2024

- Environmental Assessment of Petroleum Potential on the South Sea Continental Shelf: Development of a New Rift Basin Model @Korea National Oil Corporation (KNOC)

Teaching Assistant (TA)

- *Frontier seminar* *Sep, 2024 – Dec, 2024*
- *Essentials of Geology & Lab, (Introduction of Earth Science)* *Sep, 2022 – Dec, 2022*
- *Sedimentary Petrology* *Mar, 2022 – July, 2022*

Internship_ Morphodynamics and Quantitative Stratigraphy Lab

July, 2021 – Jan, 2022

- Flume experiment: Autogenic evolution of valley-confined deltas during sea-level rise

Kangwon National University

Research Assistant_ Sedimentology Lab

June, 2020 – Dec, 2020

- Construction of Geological Resources Research Dataset @Korea Institute of Geoscience and Mineral Resources (KIGAM)
- Northeast China Sea 2D/3D Geophysical Exploration @Korea Institute of Ocean Science and Technology (KIOST)

CONFERENCE

Lee, Y., Kim, W., and Lee, H., A study on relationship between water temperature and ripple size in sand bed: Flume experiment, Poster presentation at 2023 Fall Meeting, AGU, San Francisco, 11-15 Dec.

Lee, Y., Kim, W., and Lee, H., A study on relationship between water temperature and ripple size in sand bed: Flume experiment, Poster presentation at 2023 Spring Meeting, KSEEG, Busan, 18-21 Apr.

PUBLICATION

Lee, H., Kim, W., Jonson, J., Keum, D., **Lee, Y.,** Nahm, W. (2025). Experimental investigations of water and sediment discharge effects on alluvial fan margin roughness. *Journal of Sedimentary Research*. (in revision)

Wang, R., Kim, W., Colombera, L., Mountney, N. P., **Lee, Y.,** & Lee, J. (2024). Autogenic evolution of valley-confined deltas during sea-level rise: Insights from numerical and physical modelling. *Sedimentology*.

EXPERIENCE

- Petrel Geological and Geophysical Interpretation @Schumlerger Jan. 2025
- [Short course] Clastic reservoir sedimentary rock analysis (Prof. Ryu) @Korea Oversea Resource and Energy Industry Association Nov. 2022

FIELD WORK

- Taebaek, Republic of Korea: Geological Survey of Paleozoic Strata (Carbonate & Clastic)
- Samcheok, Republic of Korea: Geological Survey of Paleozoic Strata (Carbonate & Clastic)
- Hongcheon, Republic of Korea: Geological Survey of Modern Fluvial Environments
- Yangyang, Republic of Korea: Geological Survey of Coastal Environments
- Goseong, Republic of Korea: Geological Survey of Modern Lacustrine Deposits
- South Sea, Republic of Korea: 2D/3D Ocean Seismic Exploration
- Gam-Nakdong River, Republic of Korea: Drone Survey of Modern Delta.

CERTIFICATIONS

- Licensed Applied Geologist (Republic of Korea) @Human Resources Development Service of Korea (HRDK)
- Licensed Ultra-Light Drone Pilot (Republic of Korea) @Korea Transportation Safety Authority (TS)

AWARDS/HONORS

AWARDS: President's Award, Kangwon National University.
Thesis Fellowship, Yonsei University.