

HyoJae Lee

M.S., 2nd Semester, Department of Earth System Science

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Education

2015 March – 2021 August

YONSEI UNIVERSITY

Seoul, South Korea

B.S. in Department of Earth System Science

2021 September – Present

YONSEI UNIVERSITY

Seoul, South Korea

M.S. in Department of Earth System Science

Adviser: Wonsuck Kim

Experience

2020 January – February

Undergraduate Intern, Seoul National University, Seoul, South Korea

Air Pollution Climate Change Lab

2020 May – 2021 August

Undergraduate Intern, Yonsei University, Seoul, South Korea

Morphodynamics and Quantitative Stratigraphy Lab

Adviser: Wonsuck Kim

2021 September – 2021 December

Teaching Assistant (TA)

Course Name: Sedimentary Environments

2022 March – 2022 June

Teaching Assistant (TA)

Course Name: Geology 101 (Introduction of Earth System Science)

Current Research

Analyzing surface morphology of the bimodal alluvial fan and build a model that can predict upstream boundary conditions.

Youtube Link for the flume experiment: Will be updated soon.

Field Experience

2016.10 Incheon, Mueuido, South Korea
2016.12 Taebeak, Gumunso, South Korea
2021.11 InJe, Seorak Mt., South Korea

Scholarship

2020.01 Yonsei Truth Scholarship
2020.09 Yonsei Truth Scholarship

Research Skills

Software

ArcGIS (ESRI ArcMap)

- Served military for 2 years for making military maps (1:100000) of Korean Peninsula.
- Skilled in making diagram of aerial photos and simple maps

Adobe Photoshop & Illustrator & Premiere Pro

- Editing photos / Making videos
- Creating logos / figures

SketchUp

- 3D building construction

Leica Cyclone

- Managing topographic laser scanner (BLK 360, Leica) data
- Converting into DEM data

Procreate

- Creating logos / figures

Programming Language

Matlab

- Extracting surface data from Digital Elevation Model (DEM) data

- 3D Modeling of alluvial fan
- Image Processing

Conference Presentations

2021

Lee, H., Shin, H. and Kim, W., 2021, The effect of upstream boundary conditions on surface morphology of bimodal alluvial fan: Tank Experiment: Abstract PL-2 presented at 2021 Joint Conference of the Geological Science & Technology of Korea, KSEEG, 23 - 24 June. (Poster Presenter)

Relevant Course Work

2015

Calculus & Vector Analysis (1) & (2) / General Chemistry and Experiment (1) & (2) / General Physics and Lab (1) & (2)

2016

Sedimentary Petrology / Igneous Petrology / Earth History / Understanding of Stratigraphy / History of Fossil / Earth Materials Science & Lab / Submarine Geology / Field Geology & Lab / Experiments in Earth System Sciences

2017

Soil Contamination & Remediation / Petroleum Geology & Lab

2019

Geochemistry / Ore Deposits / Groundwater & Soil Contamination / Sedimentary Environments

2020

Crystallography & Lab / Geodynamics / Satellite Geosciences & Lab / *Senior Thesis (1) & (2)

*Lee, H., Shin, H. and Kim, W., 2020, The effect of upstream boundary conditions on slope of bimodal alluvial fan: Tank Experiment

2021

Geophysics & Lab / Stratodynamics (Audit) / Modelling of Sedimentary Dynamics / Groundwater Contamination & Remediation / Special Research of Geological Remote Sensing

2022

Stratodynamics / Planetary Geoscience / Advanced Remote Sensing in Geology / Sedimentary Petrology (Audit)