

Minsik Kim

Department of Earth System Science
College of Science
Yonsei University
50, Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea
Yukms6601@gmail.com
Cell phone: +82-10-5674-6601
Github: <https://github.com/yukms>

EDUCATION

- PhD **Yonsei University** Mar. 2022-
Department of Future Science and Engineering
MS-PhD combined course
Advisor: Prof. Wonsuck Kim
- BSc **Yonsei University** Mar. 2013- Feb. 2019
Department of Earth System Science
Bachelor of Science in Earth System Science
Cumulative GPA: 3.81/4.3

RESEARCH INTEREST

Effect of mud bottomset on delta land building process
Delta restoration
Mud retention change over the delta evolution

PUBLICATIONS

Kim, M., Kim, W., & Nahm, W-H. (2022). The effect of bottomset on fluviodeltaic land-building process: Numerical modelling and physical experiment. *Basin Research*, 00, 1–18, DOI: 10.1111/bre.12684

INTERNATIONAL CONFERENCES

Kim, M., Chun B., Chamberlain E., and Kim W., 2022, Does the effect of sediment retention and bottomset accumulation lead the linearly prograding deltaic shoreline?: iPoster presentation at 2022 Fall Meeting, AGU, Chicago, Illinois, 12-16 Dec.

Kim, M., Chun B., Chamberlain E., and Kim W., 2022, Does the effect of sediment retention and bottomset accumulation lead the linearly prograding deltaic shoreline?: Oral presentation at 2022 ISC, Beijing, China, 22-26 Aug. (Online)

Kim, M. and Kim, W., 2021, The effect of sand to mud ratio on fluviodeltaic land-building process: Numerical modeling and physical experiment: Poster presentation at 2021 Fall Meeting, AGU, New Orleans, Louisiana, 13 – 17 Dec.

Kim, M. and Kim, W., 2020, The effect of sand to mud ratio on shoreline progradation rate: Numerical modeling of a coupled fluviodeltaic topset to bottomset system: Abstract EP047-0004 presented at 2020 Fall Meeting, AGU, Online Everywhere, 1 – 17 Dec.

DOMESTIC CONFERENCES

Kim, M., Kim, W., Chun, B. 2022, Does the effect of sediment retention and bottomset accumulation lead the linearly prograding deltaic shoreline?: Oral presentation at 2022 Spring Meeting, KSEEG, Gwangju, 21 – 23 Jul.

Kim, M. and Kim, W., 2021, The effect of bottomset on fluviodeltaic land-building process: Numerical modeling and physical experiment: Abstract PL-4 presented at 2021 Spring Meeting, KSEEG, Gyeongju, 23 – 24 Jul.

EXPERIENCE

[Short course] Clastic reservoir sedimentary rock analysis (Prof. Ryu)	Aug. 2022
[Short course] Oil and gas exploration technique using Data Sciences	Jun. 2022
Interdisciplinary research Academy (ICONS)	July. 2022
Drone training (Title of license: Pilot of an ultra light vehicle)	
4 th Human Resources Training Student, KIGAM, Korea	Apr. 2019 - Sep. 2019
✓ Seismic Data Processing and Well Log Interpretations	
Resource Development Special Practical Training and PETREL Software Training, EMRD	Aug. 2018
Geological Field Camp, Yonsei University	Jun. 2018 - Jul. 2018
✓ 2 weeks in Taebaek, Korea	
EMRD Field Training Program	Dec. 2017 - Feb. 2018
✓ Research Institute of Geology & Petroleum Engineering, HCMUT, Vietnam	
GOCAD Software Training, Korea University	Aug. 2017
Global Business Training School, Yonsei University	Jan. 2017 - Feb. 2017

RESEARCH EXPERIENCES

Researcher Mar 2022 –

Morphodynamics and Quantitative Stratigraphy Research Group
Department of Earth System Sciences
Institute of Natural Science
Yonsei University
Adviser: Wonsuck Kim

Assistant Researcher Mar 2020 – Feb 2022
Morphodynamics and Quantitative Stratigraphy Research Group
Department of Earth System Sciences
Institute of Natural Science
Yonsei University
Adviser: Wonsuck Kim

AWARDS AND HONORS

Convergence Research Proposal, 1st award, Department of Earth System Sciences, Yonsei University, Korea	Dec. 2020
The excellence in research award, Morphodynamics and Quantitative Stratigraphy Group, Yonsei University, Korea	Oct. 2020
Promising Geological Engineering Award, Engineering Geology Academy, Korea	Feb. 2019
Honors, Yonsei University, Korea	Feb. 2018

TEACHING EXPERIENCES

Undergraduate Thesis (Jihwan Ryu)

Understanding of stratigraphy Fall. 2020

- ✓ teaching assistant for understanding of stratigraphy class; taught basing interpretation of sequence stratigraphy and seismic section interpretation.

Introduction to earth system sciences Spring. 2020

- ✓ Teaching assistant for Introduction to earth system sciences; Explanation of exercise problems.

LEADERSHIP EXPERIENCES

Representative Graduate Student, Department of Earth System Sciences, Yonsei University, Korea Mar. 2021~ Feb. 2022

Assistant for university innovation project, Department of Earth System Sciences, Yonsei University, Korea Mar. 2021~ Feb. 2022

SCHOLARSHIP& RESEARCH GRANT

Yonsei Collaboration research scholarship (\$2000) Sep. 2022 ~ Feb. 2022

Yonsei Collaboration research scholarship (\$1000) Jul. 2021 ~ Feb. 2022

Yonsei Global research grant (\$5000) May. 2022

Yonsei Junior Collaboration research group grant (\$3000) Jul. 2021 ~ Feb. 2022

FIELD EXPERIENCE

EMRD field trip for oil and gas development majors 2022.08.05 ~ 2022.08.27

- ✓ Structure geology (Thrust, Duplex, Fault propagation fold, Fault bend fold)
- ✓ Sedimentology and Stratigraphy (Joseon Supergroup, carbonate rock, source rock and reservoir rock)

Gam-Nakdong River confluence delta (2) 2022.09.26 ~ 2022.09.27

- ✓ Drone survey (3D model using Agisoft), Sediment sampling, Flow velocity measurement, Morphology analysis

Gam-Nakdong River confluence delta (1) 2021.09.12 ~ 2021.09.14

- ✓ Drone survey, Trench, Sediment sampling, Flow velocity measurement, Morphology analysis

FLUME EXPERIMENT

planning

NUMERICAL MODEL

1D delta building model with bottomset

1D delta building model with bottomset and compaction

Levee building model using advection settling

SOFTWARE

Matlab

R

Agisoft (3D model)

Cyclone (3D scanner)

Qgis