MENTORING & ADVISEMENT

Undergraduate Student Advisees

SNU School of Earth & Environmental Sciences | Undergraduate Thesis Research

[§ Best Undergraduate Thesis Research Award]

Imaging subduction structures beneath southern Mexico by high-precision earthquake relocation SYoung-Wook Kim Structure and seismological properties of the subduction plate boundary in southern Peru Hyoihn Jang Seismic attenuation structure beneath Jeju Island, Mexico and Peru: Implications for magmatism and fluids Hee-Chul Jung Seismic structure beneath Upper Cook Inlet Basin in Alaska through receiver functions, H-k stacking, and 1-D iterative-optimizing modeling 2016 – 2017 Young-Jin Ryu Crustal P-wave velocity analysis using earthquakes from Korean Peninsula 2017 – 2018 Jeena Yoon Lateral variations of crustal seismic attenuation in Central California from Lg Q inversion \$Jaewoo Kim Detecting pore-fluid pressure change by shear-wave splitting in 2017 Mw 5.4 Pohang earthquake region 2019 – 2021 Min Seong Seo Complex spatiotemporal triggering of 2017-2018 Pohang aftershock sequence revealed by nearest neighbor analysis 2019 – 2021 Sangwoo Han Imaging 3-dimensional rupture processes of the 2015 Peru deep earthquake doublet by back-projection Young Oh Son Constraints on crustal properties in South Korea from virtual deep seismic sounding	2013 – 2014	Hobin Lim
Structure and seismological properties of the subduction plate boundary in southern Peru Hyoihn Jang Seismic attenuation structure beneath Jeju Island, Mexico and Peru: Implications for magmatism and fluids Hee-Chul Jung Seismic structure beneath Upper Cook Inlet Basin in Alaska through receiver functions, H-k stacking, and 1-D iterative-optimizing modeling Young-Jin Ryu Crustal P-wave velocity analysis using earthquakes from Korean Peninsula SHyeJeong Kim Lithospheric velocity structure of three volcanic islands near Korean Peninsula Jeena Yoon Lateral variations of crustal seismic attenuation in Central California from Lg Q inversion SJaewoo Kim Detecting pore-fluid pressure change by shear-wave splitting in 2017 Mw 5.4 Pohang earthquake region Min Seong Seo Complex spatiotemporal triggering of 2017-2018 Pohang aftershock sequence revealed by nearest neighbor analysis Sangwoo Han Imaging 3-dimensional rupture processes of the 2015 Peru deep earthquake doublet by back-projection Young Oh Son		Imaging subduction structures beneath southern Mexico by high-precision earthquake relocation
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projection 2019 – 2021 Young Oh Son	2019 – 2021	Sangwoo Han
2019 – 2021 Young Oh Son		Imaging 3-dimensional rupture processes of the 2015 Peru deep earthquake doublet by back-
		projection
Constraints on crustal properties in South Korea from virtual deep seismic sounding	2019 – 2021	Young Oh Son
		Constraints on crustal properties in South Korea from virtual deep seismic sounding

Summer (International) Guest Student Advisees | Undergraduate Thesis Research

2018 Sungbin Cho (B.S. student at University of Texas at Austin)

Origin of the Columbia River flood basalt – probing lithospheric interactions with Yellowstone plumes

- Co-advised by Prof. C. Wilson (UT Austin)

Seismology Geophysics Tectonics Laboratory

SNU Student Directed Education (SDE) Program | Undergraduate Research Project

The SDE program is a highly competitive research program at SNU open to undergraduates in all disciplines. Only ~30 projects are selected each year, and those research results are evaluated for awards.

2016 HyeJeong Kim

Lithospheric velocity structure of three volcanic islands near Korean Peninsula

- Received research fund of 3,000,000 won (~2,700 USD) for 6 months
- Won the first-place award
- 2019 laewoo Kim

Detecting pore-fluid pressure change by shear-wave splitting in 2017 Mw 5.4 Pohang earthquake region

- Received research fund of 3,000,000 won (~2,700 USD) for 6 months
- Won the second-place award
- 2020 Young Oh Son & Min-Seong Seo

Measurement of seismometer misorientation based on P-wave polarization: Application to permanent and dense temporary seismic arrays in South Korea

- Research fund of 6,000,000 won (~5,400 USD) for 6 months
- Link to research results (in Korean): https://www.youtube.com/watch?v=ic7wKafla6c
- Publication resulted from this research:
 - [1] Son, Y. O., M.-S. Seo, and Y. Kim (2021), Measurement of seismometer misorientation based on P-wave polarization: application to permanent seismic network in South Korea, *Geosciences Journal. https://doi.org/10.1007/s12303-021-0031-5*
 - [2] Seo, M.-S., Y. O. Son, Y. Kim, T.-S. Kang, J. Rhie, K.-H. Kim, and J.-H. Ree (2022), Measurement of seismometer misorientation based on P-wave polarization: application to dense temporary broadband seismic array in the epicentral region of 2016 Gyeongju earthquake, South Korea, Geosciences Journal. https://doi.org/10.1007/s12303-021-0041-3

SNU College of Natural Sciences Undergraduate Internship Program | Undergraduate Research Project

The internship opportunities in SNU College of Natural Sciences are offered SNU & non-SNU undergraduate students for four sessions (Fall & Spring semesters; Summer & Winter sessions). About 10 projects are selected in each term in Earth & environmental science disciplines.

2013	Chang-Hyun Choi
	Seismic data processing for ambient noise tomography
2014	Jung-Hoon Song
	Receiver function analysis using Korean seismic data
2015	Hee-Chul Jung
	Receiver function analysis using MOOS array in Cook Inet Basin
2015	Hyoihn Jang
	Constraining seismic attenuation structure beneath Jeju Island, S. Korea
2015	Dong-Hyuk Kang
	Exploring basic seismic array processing
2015	Young-Jin Ryu
	Receiver function modeling for lithospheric structure beneath S. Korea

Kim Research GroupSeismology Geophysics Tectonics Laboratory

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2016 Tae-Yoon Kim Exploring methods of seismic tomography 2016 Min Seong Seo Earthquake detection based on STA/LTA algorithm using Cascadia Initiative ocean-bottom seismic data 2017 HyeJeong Kim Lithospheric velocity structure of three volcanic islands near Korean Peninsula 2017 Jaewoo Kim Exploring methods of shear-wave splitting to probe local seismic anisotropy 2017 Jisoo Kim Receiver function analysis using seismic data in Arabia Peninsula 2018 Jun Yong Park (Chungnam University) Exploring methods for detection and location of earthquakes using ocean bottom seismic data 2018 Jaewoo Kim Detecting pore-fluid pressure change by shear-wave splitting in 2017 Mw 5.4 Pohang earthquake region 2019 Young Oh Son Detection and space-time location of non-volcanic tremors 2019 Sangwoo Han Seismic data classification using machine learning 2019 Min Seong Seo Multifractal characterization of seismic activity 2019 Young Oh Son Detection and location of earthquake tremors in Nankai subduction zone, SW Japan 2020 Joo-Hyung Lee Detection and location of 2016 M 5.5 Gyeongju earthquake using OBSPy 2020 Sangwoo Han Classification of shallow/deep earthquakes using spectrogram 2020 Seung-Hoon Han Shear-wave splitting analysis using dense seismic array in SE part of Korea 2021 Young Oh Son Constraints on crustal properties in South Korea from virtual deep seismic sounding 2021 Seung-Hun Choi Earthquake source properties in East Sea 2021 Youjin Kim Detecting earthquake swarm signals: Example from Haenam earthquake 2021 Afigah Azhan Receiver function study for Alaska Mount Spurr volcanic structure 2021 Minyoung Choi Earthquake relocation of micro-seismicity in Jeju Island, South Korea

Graduate Student & Postdoctoral Scientist Advisees

M.S. Student Advisees

2020 – 2022 Jaewoo Kim (M.S. degree at Feb. 2022)

Thesis title: Spatiotemporal variation in upper crustal seismic anisotropy and V_P/V_S ratio in Groningen gas field, Netherlands: Insights from shear wave splitting

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2019 – 2021 Jeena Yoon (M.S. degree at Feb. 2021)

Thesis title: **Spatial variation of the Lg wave attenuation along the CCSE array in Central California**, US

2016 – 2017 Hyoihn Jang (M.S. degree at Feb. 2017)

Thesis title: Seismic attenuation structure beneath Nazca Plate subduction zone in southern Peru
Project title: 1. A possible roll-over slab geometry under the Caroline Plate imaged by Monte Carlo
finite-frequency traveltime inversion of teleseismic SS phases

2. Seismic attenuation structure of Nazca Plate subduction zone in southern Peru

M.S.-Ph.D. Joint Program Student Advisees

Spring 2021 – Sangwoo Han (M.S. student)

Project title: *Imaging 3-dimensional rupture processes of the 2015 Peru deep earthquake doublet by back-projection*

Spring 2021 – Min Seong Seo (M.S. student)

Project title: Complex spatiotemporal triggering of aftershocks revealed by nearest neighbor analysis: Case study of 2017-2018 Pohang aftershock sequence in South Korea

2019 – present Jun Yong Park (M.S. student)

Project title: 1. Detection and location of local earthquakes in the oldest Pacific plate using the Oldest-1 (Pacific Array) data

2. Detection and location of seismicity in Yellow Sea, S. Korea

2016 – present Soojinn Hyung (Ph.D. student; *leave of absence*)

Project title: *Teleseismic Constraints on Crustal structure of the Grenville Province in eastern North America*

2015 – 2020 Hobin Lim (Ph.D. at Aug. 2020)

Thesis title: Geophysical investigations of the subduction zone in Peru and the 2017 Pohang earthquake in South Korea

Project title: 1. Evidence of an upper mantle seismic anomaly opposing the Cocos slab beneath the Isthmus of Tehuantepec, Mexico

- 2. Earthquake source mechanism and rupture directivity of the 12 September 2016 Mw 5.5 Gyeongju earthquake, South Korea
- 3. Measurement of borehole seismometer orientation using tangential P-wave receiver function based on harmonic decomposition
- 4. Seismicity and structure of Nazca Plate subduction zone in southern Peru
- 5. Data-oriented constraint on the interpretation of S receiver function and its application to observations of seismic discontinuities in the lithosphere-asthenosphere system
- 6. Seismic attenuation structure of southern Peruvian subduction system
- 7. 2017 Mw 5.5 Pohang earthquake, South Korea, and poroelastic stress change associated with fluid injection
- 8. A dataset of seismic sensor responses of South Korea seismic stations

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Ph.D. Student Advisees

2017 - present Hyunsun Kang (Ph.D. candidate)

> Proposal thesis title: Seismic structure beneath various tectonic settings constrained from seismic array data

Project title: 1. Localized anisotropic subduction-zone structure in southern Peru: Constraints from teleseismic receiver functions and forward modeling

- 2. Seismic crustal structure beneath Jeju Volcanic Island, South Korea
- 3. Deep seismic crustal structure beneath Wallowa, Columbia River flood basalt province

2012 - 2020Eunyoung Kim (Ph.D. at Feb. 2020)

> Thesis title: Investigation of 3-D crustal velocity structure from seismic tomography and effective medium modeling of anisotropic seismic properties of rocks

Project title: 1. Upper crustal seismic structure of the Endeavour segment, Juan de Fuca Ridge from traveltime tomography: Implications for oceanic crustal accretion

- 2. GassDem: A MATLAB program for modeling the anisotropic seismic properties of porous medium using differential effective medium theory and Gassmann's poroelastic relationship
- 3. AnisEulerSC: A MATLAB program combined with MTEX for modeling the anisotropic seismic properties of a polycrystalline aggregate with microcracks using self-consistent approximation

Guest Student Advisees

Hwaju Lee (Ph.D. candidate at University of Minnesota) 2020 - present

Project title: Seismic anisotropy and mantle flow in Nazca plate subduction system

International Predoctoral Researcher Advisees

2017 Sagar Singh (M.S. at Indian Institute of Technology Roorkee)

Project title: Exploring capability of full waveform inversion using Korean seismic data

Postdoctoral Scientist

Hobin Lim Sep 2020 - present

> Project title: 1. Fault zone structure imaged by teleseismic receiver function with geophone array in (1) Clark fault, California, US and (2) Yangsan fault, S. Korea

2. Application of seismic array processing to assess station quality in Gyeongju,

South Korea

Sep 2021 - present Hwaju Lee

Project title: 1. Seismic anisotropy and mantle flow in Nazca plate subduction system

2. Understanding of mantle dynamics in East Asia: An insight gained from anisotropy in seismic velocity