JaeHwi Kim

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EDUCATION

Mar. 2014 ~ Feb. 2021	**Changwon National University** School of Civil, Environmental and Chemical Engeineering *B.S. in Civil, Environmental and Chemical Engeineering* GPA: 3.77 / 4.5	Changwon, Korea
Mar. 2021 ~ Feb. 2023	**Changwon National University** School of Civil, Environmental and Chemical Engeineering Thesis: Characterization of dynamic site properties in the Gimhae Plains using the Microtremor Array Method and the Horizontal-to-Vertical Spectral Ratio method *Advisor: Seokho Jeong* *M.S. in Civil, Environmental and Chemical Engeineering* GPA: 4.44 / 4.5	Changwon, Korea

RESEARCH INTERESTS

- Geophysical exploration
- Ground motion simulation
- Seismic hazard assessment
- Probabilistic seismic hazard analysis
- Seismic site effects

PUBLICATIONS (INTERNATIONAL)

1. Jaehwi Kim,Giseok Heo,Dongyoup Kwak,Seokho Jeong, "The Relationship between Bedrock Depth and Site Fundamental Frequency in the Nakdonggang Delta Region, South Korea", *GEOTECHNICS*, (2023)
2. Giseok Heo,Jaehwi Kim,seokho Jeong,Dongyoup Kwak, "Evaluation of SPT N and Vs models depending on geologic attributes: case study at Busan, South Korea", *GEOTECHNICS*, (2023)

PUBLICATIONS (DOMESTIC)

1. JaeHwi Kim, Seokho Jeong, "Characterization of Deep Shear Wave Velocity Profiles in the Gimhae Plains Using the Microtremor Array Method", Journal of the Korean geotechnical society v.38 no.8, (2022)

CONFERENCES

1. JaeHwi Kim, Seokho Jeong, "Estimation of velocity structures in the Gimhae Plains using horizontal-to-vertical spectral ratios from microtremors", KGS Fall National Conference, Seoul, Korea (Oct. 2021) - Oral
2. Seokho Jeong, JaeHwi Kim,"Characterization of shear wave velocity in the Gimhae Plains using the Microtremor Array Method", KGS Spring National Conference, Seoul, Korea (Mar. 2022)
3. JaeHwi Kim, Seokho Jeong, "Characterization of dynamic site properties in the Gimhae Plains using the Microtremor Array Method and the Horizontal-to-Vertical Spectral Ratio method", QuakeCoRE Annual Meeting, Napier, New Zealand (Aug. 2022) - Poster
4. S.Bae, S.Jeong, J.Kim, K.Kim, "Broadband Physics-based strong ground motion simulations for the southern Korean Peninsula", QuakeCoRE Annual Meeting, Napier, New Zealand (Aug. 2022)
5. Seokho Jeong, Sung Bae, JaeHwi Kim, Kwangyoung Kim, "Prediction of ground motion in South Korea based on physics-based broadband simulation", SCEC Annual Meeting, Palm Springs, United States (Sep. 2022)
6. JaeHwi Kim, Seokho Jeong, "A shear wave velocity model of Gimhae Plains sediments based on the Microtremor Array Method", KSCE 2022 Convention, Busan, Korea (Oct. 2022) - Oral
7. S.Jeong, S.E. Bae, J.H. Kim, B.A. Bradley, "Prediction of ground motion in South Korea based on hybrid broadband ground motion simulation", IUGG 2023, Berlin, Germany (Jul. 2023)
8. JaeHwi Kim, seokho Jeong, "Site effect assessment of the Late-Quaternary sediments in the Nakdonggang delta region using HVSR and MAM techniques", 2023 Busan/Ulsan/Gyeongnam Brance Convention of Korean Society of Civil Engineers , Busan, Korea (Sep. 2023) - Oral
9. JaeHwi Kim, Junsu Oh, seokho Jeong, "Site effect assessment of the Nakdonggang delta sediments using a depth-dependent shear wave velocity model", 2023 Earthquake Engineering Society of Korea Workshop, Jeju-do, Korea (Sep. 2023) - Oral

SKILLS AND TECHNIQUES

- Programming Language : Python (Basemap, Scipy, Obspy)
- Geophysical Software (Geopsy, Dinver, PySeismoSoil, DEEPSOIL)
- Geophysical Exploration (HVSR, Surface wave inversion)