

FIRST-AUTHORED CONFERENCE/WORKSHOP ABSTRACTS

[Underline means student & † invited presentation]

- [54] **Kim, Y.**, R. W. Clayton, H. Kang E. Humphreys, Deep seismic crustal structure beneath Wallowa, Columbia River flood basalt province, Seismological Society of America, 2019 Annual Meeting, Seattle, Washington, Apr 22–26, 2019.
- [53] **Kim, Y.**, H. Lim, K. Deng, J. Ree, T. Song, 2017 Mw 5.4 Pohang earthquake, South Korea and poroelastic stress change associated with fluid injection, Poster Presentation at 2018 SCEC Annual Meeting, Aug 2018.
- [52] **Kim, Y.**, H. Kawakatsu, Scattered wavefield imaging of the Japan subduction structure using Hi-net array data, Abstract SCG59-P01 presented at 2018 JpGU-AGU joint meeting, Japan, 22 May 2018.
- [51] † **Kim, Y.**, Imaging large earthquakes and plate boundary complexity with seismic big data, Third Korean-American Kavli Frontiers of Science Symposium, Korean Academy of Science and Technology–U.S. National Academy of Sciences, Irvine, CA, Jun 26–28, 2017.
- [50] **Kim, Y.**, X. Shen, T. A. Song, H. Lim, High resolution mapping of seismic properties across upper mantle discontinuities in the stagnant slab region beneath Korea, Abstract SIT31-P01 presented at 2017 JpGU-AGU joint meeting, Japan, 22 May 2017.
- [49] **Kim, Y.**, X. Shen, T. A. Song, H. Lim, High resolution mapping of seismic properties across upper mantle discontinuities in the stagnant slab region beneath Korea, Abstract DI22A-06 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12–16 Dec 2016.
- [48] † **Kim, Y.**, H. Lim, R. W. Clayton, C. H. Thurber, Seismicity and structure of Nazca Plate subduction zone in southern Peru, page 173, International 2016 EMSEV Workshop, Lanzhou, China, Aug 25–29, 2016.
- [47] † **Kim, Y.**, P. Audet, Seismic constraints on the geological environment of episodic slow earthquakes in subduction zone forearcs, 13th Annual meeting AOGS, Beijing, China, July 31–Aug 5, 2016.
- [46] **Kim, Y.**, High resolution mapping of seismic properties across upper mantle discontinuity, Second meeting (Geophysics) Seoul National University–University Paris Diderot, Paris, France, May 13, 2016.
- [45] **Kim, Y.**, H. Jang, T.-S. Kang, J. Rhie, Seismic structure of Jeju Island, S. Korea from a dense seismic network, Earthquake Engineering Society of Korea (EESK) Annual Conference, Kyung-gi, Korea, Mar 18, 2016.
- [44] **Kim, Y.**, R. W. Clayton, Seismic properties of the Nazca oceanic crust in southern Peruvian subduction system, Abstract T12C-04 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 15–19 Dec 2015.
- [43] **Kim, Y.**, What can seismic images tell us about the fault zone in which great earthquakes and slow slip earthquake occur?, First meeting (Geophysics) Seoul National University–University Paris Diderot, Paris, France, Nov 14, 2015.
- [42] **Kim, Y.**, R. W. Clayton, Seismic properties of the Nazca oceanic crust in southern Peruvian subduction system, 2015 Fall Joint Conference of KSMER/KSRM/KSEG, Jeju, Korea, Oct 29–30, 2015.
- [41] **Kim, Y.**, H. Jang, H. Lim, T.-S. Kang, J. Rhie, Crustal seismic structure beneath Jeju Island, S. Korea, 2015 Fall Joint Conference of KSMER/KSRM/KSEG, Jeju, Korea, Oct 29–30, 2015.
- [40] **Kim, Y.**, P. Audet, Seismic constraints on the geological environment of episodic slow earthquakes in subduction zone forearcs, 2015 Fall Joint Conference of Geological Science of Korea, Jeju, Korea, Oct 28–29, 2015.
- [39] † **Kim, Y.** Fault zone properties retrieved from dense seismic network data: Cases from urban seismic survey with high-frequency velocity sensors and continental-scale seismic experiments with broadband sensors, Earthquake Engineering Society of Korea (EESK) Annual Conference, Jeju, Korea, Sep 10, 2015.
- [38] **Kim, Y.**, R. W. Clayton, Relating seismic subduction images in southern Peru to mineralogy, 2015 SSA Annual Meeting, Pasadena, CA USA, Apr 21–23, 2015.
- [37] **Kim, Y.**, What can seismic images tell us about the fault zone in which great earthquakes and slow slip earthquake occur?, Earthquake Engineering Society of Korea (EESK) Annual Conference, Mar 27, 2015.
- [36] **Kim, Y.**, R. W. Clayton, Relating seismic subduction images in southern Peru to mineralogy, Fall Joint Annual

- conference of the Geological Societies in Korea, Abstract T51B-4622 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15–19 Dec 2014.
- [35] **Kim, Y.**, A comparison of flat subduction zone system in Alaska, Mexico, and Peru, The 17th Hokkaido University-Seoul National University Joint Symposium, Hokkaido University, Nov 28, 2014.
- [34] **Kim, Y.**, A comparison of flat subduction zone system in Alaska, Mexico, and Peru, Joint Fall Conference (Korean Society of Earth and Exploration Geophysicists), p. 67, Jeju island, Nov 6, 2014.
- [33] **Kim, Y.**, T. A. Song, Anisotropic uppermost mantle in young subducted slab underplating Central Mexico, Fall Joint Annual conference of the Geological Societies in Korea, Gangwon-do, Korea, Oct 29–30, 2014.
- [32] **Kim, Y.**, R. W. Clayton, Relating seismic subduction images in southern Peru to mineralogy, Fall Joint Annual conference of the Geological Societies in Korea, Gangwon-do, Korea, Oct 29–30, 2014.
- [31] **Kim, Y.**, R. W. Clayton, Properties of the Subduction System in Mexico, Asia Oceania Geosciences Society, AOGS 11th Annual Meeting, Sapporo, Japan, Jul 28–Aug 1, 2014.
- [30] **Kim, Y.**, E. Kim, Seismological views into the roots of volcanic system, Center for International Area Studies, Seoul, Korea, Jul 4, 2014.
- [29] **Kim, Y.**, G. A. Abers, J. Li, D. Christensen, J. Calkins, and S. Rondenay, Imaging the megathrust zone and Yakutat/Pacific plate interface in the Alaska subduction zone, Seismological Society of America, 2014 Annual Meeting, Anchorage, Alaska, Apr 30–May 2, 2014.
- [28] **Kim, Y.**, R. W. Clayton, Properties of the Subduction System in Mexico, Seismological Society of America, 2014 Annual Meeting, Anchorage, Alaska, Apr 30–May 2, 2014.
- [27] **Kim, Y.**, G. A. Abers, J. Li, D. Christensen, J. Calkins, and S. Rondenay, Alaska Megathrust: Imaging the megathrust zone and Yakutat/Pacific plate interface in the Alaska subduction zone, Abstract P193, 2014 Joint conference of the Geological Science & Technology of Korea, Busan, Korea, Apr 20–23, 2014
- [26] **Kim, Y.**, H. Lim, and R. W. Clayton, Properties of the subduction system in Mexico, Abstract P352, 2014 Joint conference of the Geological Science & Technology of Korea, Busan, Korea, Apr 20–23, 2014
- [25] **Kim, Y.**, G. A. Abers, J. Li, D. Christensen, J. Calkins, S. Rondenay, Alaska Megathrust: Imaging the megathrust zone and Yakutat/Pacific plate interface in the Alaska subduction zone, Abstract T53F-05 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9–13 Dec 2013.
- [24] **Kim, Y.**, G. A. Abers, J. Li, D. Christensen, J. Calkins, S. Rondenay, Alaska Megathrust: Imaging the megathrust zone and Yakutat/Pacific plate interface in the Alaska subduction zone, InterRidge Japan Symposium, Tokyo, Japan, Nov 12–13, 2013.
- [23] † **Kim, Y.**, Reexamining the Cause of Flat Subduction: Insights from Seismology, The Geological Society of Korea, Abstract P73, 2013 Fall Joint Annual conference of the Geological Societies in Korea, Jeju, Korea, Oct 23–25, 2013.
- [22] **Kim, Y.**, H. Lim, and R. W. Clayton, Imaging opposing oceanic lithospheres in the Isthmus of Tehuantepec, Mexico, The Geological Society of Korea, Abstract P74, 2013 Fall Joint Annual conference of the Geological Societies in Korea, Jeju, Korea, Oct 23–25, 2013.
- [21] † **Kim, Y.**, A Comparison of Flat Subduction in Mexico, Alaska, and Peru, International Association for Gondwana Research, Daejeon, Korea, Sep 30–Oct 2, 2013.
- [20] **Kim, Y.**, R. W. Clayton, P. D. Asimow, J. M Jackson, Generation of Talc from the Mantle Wedge and its Role on the Subduction Dynamics in Central Mexico, AGU Meeting of the Americas, Cancun, Mexico, May 14–17, 2013.
- [19] **Kim, Y.**, G. A. Abers, J. Li, D. Christensen, J. Calkins, Imaging megathrust zone and Yakutat/Pacific plate interface in Alaska subduction zone, AGU Meeting of the Americas, Cancun, Mexico, May 14–17, 2013.
- [18] **Kim, Y.**, G. A. Abers, J. Li, D. Christensen, J. Calkins, Imaging megathrust zone and Yakutat/Pacific plate interface in Alaska subduction zone, JpGU International Symposium 2013, Makuhari Messe, Chiba, Japan, May 19–24, 2013.
- [17] **Kim, Y.**, G. A. Abers, J. Li, D. Christensen, J. Calkins, Imaging megathrust zone and Yakutat/Pacific plate interface in Alaska subduction zone, The Korean Society of Economic and Environmental Geology, 2013

- Joint conference of the Geological Science & Technology of Korea, Changwon, Korea, Apr 24–26, 2013.
- [16] **Kim, Y.**, G. A. Abers, J. Li, D. Christensen, J. Calkins, Imaging megathrust zone and Yakutat/Pacific plate interface in Alaska subduction zone, Abstract T14A-03 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3–7 Dec 2012.
 - [15] **Kim, Y.**, Three-dimensional structure of the subduction system in central and southern Mexico, 2012 Fall Joint Annual Conference of the Geological Societies in Korea, Gangwon-do, Korea, Oct 24–27, 2012.
 - [14] **Kim, Y.**, G. A. Abers, J. Li, D. Christensen, J. Calkins, Imaging megathrust zone in Alaska subduction zone, Geophysics of Slab Dynamics Workshop, Jeju, S. Korea, Aug 20–21, 2012.
 - [13] **Kim, Y.**, R. W. Clayton, J. M. Jackson, Distribution of Hydrous Minerals in the Subduction System beneath Mexico, Geophysics of Slab Dynamics Workshop, Jeju, S. Korea, Aug 20–21, 2012.
[Video clip] <https://www.youtube.com/watch?v=fSOJxFQir2c>
 - [12] **Kim, Y.**, G. A. Abers, J. Li, D. Christensen, J. Calkins, Imaging megathrust zone in Alaska subduction zone, IRIS Workshop, Boise, Idaho, Jun 13–15, 2012.
 - [11] **Kim, Y.**, G. A. Abers, R. W. Clayton, J. Li, D. Christensen, J. Calkins, Seismic Imaging of the Subduction Systems beneath Mexico and Alaska, GeoPRISMS–EarthScope Planning Workshop for the Alaska Primary Site, Portland, OR, Sep 22–24, 2011.
 - [10] **Kim, Y.**, R. W. Clayton, J. M. Jackson, P. D. Asimow, Distribution of Hydrous Minerals in the Subduction System beneath Mexico, Tectonic Observatory Meeting, Caltech, CA, Nov 9–10, 2011.
 - [9] **Kim, Y.**, R. W. Clayton, J. M. Jackson, P. D. Asimow, Distribution of Hydrous Minerals in the Subduction System beneath Mexico, CIDER 2011 Summer Program: “Dynamics of Mountain Building”, UC Berkeley, CA, Jun 26–Jul 16, 2011.
 - [8] **Kim, Y.**, R. W. Clayton, F. Keppie, Evidence of a Collision between the Yucatan Block and Mexico in the Miocene, Tectonic Observatory Meeting, Caltech, CA, Nov 9–10, 2010.
 - [7] **Kim, Y.**, R. W. Clayton, J. M. Jackson, Distribution of hydrous minerals in the Cocos oceanic crust inferred from receiver function analysis, Tectonic Observatory Meeting, Caltech, CA, Nov 9–10, 2010.
 - [6] **Kim, Y.**, R. W. Clayton, The Geometry and Seismic Properties of the Subducting Cocos Plate in Mexico, UKC 2010, Bellevue, Washington, Aug 13–14, 2010.
 - [5] **Kim, Y.**, R. W. Clayton, F. Keppie, Evidence of a Miocene Collision between the Yucatan Block and Mexico, IRIS Meeting, Snowbird, Utah, Jun 9–11, 2010.
 - [4] **Kim, Y.**, R. W. Clayton, Receiver Function Imaging of Seismic Structure beneath Southern Mexico Using VEOX Data, Tectonic Observatory Meeting, Caltech, CA, Nov 4–5, 2008.
 - [3] **Kim, Y.**, R. W. Clayton, Flat Slab Subduction at the Middle American Subduction Zone in Central Mexico Determined from Receiver Function Analysis, Tectonic Observatory Meeting, Caltech, CA, Nov 13–14, 2007.
 - [2] **Kim, Y.**, R. W. Clayton, Receiver Function Analysis of the Middle American Subduction Zone in Central Mexico, Tectonic Observatory Meeting, Caltech, CA, Nov 8–9, 2006.
 - [1] **Kim, Y.**, Z. Yan, R. W. Clayton, Receiver Function Analysis of the Middle American Subduction Zone in Central Mexico, Tectonic Observatory Meeting, Caltech, CA, Nov 8–9, 2005.

ABSTRACTS

- # Lee, H., **Y. Kim**, M. Bezada (2021), Cause of slow seismic velocity anomalies beneath the oceanic ridges of Nazca Plate: a clue from mantle-flow-induced seismic anisotropy in tomographic inversion, Abstract D145D-0038 presented at 2021 Fall Meeting, AGU, 13-17 Dec. [iPoster]
- † Kang, H., **Y. Kim**, S.-H. Hung, P. Lin, T. Isse, H. Shiobara, H. Kawakatsu, S.-M. Lee, H. Utada, N. Takeuchi, H. Sugioka, Seismic velocity structure of upper mantle beneath the oldest Pacific Ocean basin: Insights from finite-frequency tomography, Abstract D145E-10 presented at 2021 Fall Meeting, AGU, 13-17 Dec. [iPoster]
- † Kim, T.-S., J.-H. Park, S.-Y. Oh, J.-W. Ko, S.-J. Chang, S.-M. Lee, **Y. Kim**, H. Utada, H. Kawakatsu, H. Shiobara, T. Isse, N. Takeuchi, Characteristics of Background Noise in OLDEST-1 Pacific Array Deployed in the Western Pacific, Abstract S55A-0118 presented at 2021 Fall Meeting, AGU, 13-17 Dec. [iPoster]
- † Ko, J.-W., T.-S. Kim, J.-H. Park, S.-Y. Oh, S.-J. Chang, K.-Y. Kim, S.-M. Lee, **Y. Kim**, H. Utada, H. Kawakatsu, H. Shiobara, T. Isse, N. Takeuchi, Analysis on microseism characteristics by typhoon 'HAGIBIS' using land and ocean-bottom seismometers, Abstract S55A-0122 presented at 2021 Fall Meeting, AGU, 13-17 Dec. [iPoster]
- † Park, J. Y., **Y. Kim**, W.-Y. Kim, X. Shen (2021), Earthquake source properties and epicentral relocation with Lg-wave cross correlation of 2021 ML 4.6 Gunsan basin earthquake in Yellow Sea, South Korea, Fall Joint Conference of the Geological Sciences, Oct 26-28, 2021. [Oral]
- # Lee, H., **Y. Kim**, M. Bezada (2021), The lateral travel of mantle plume: a case study of Canary Plume with an insight gained from seismic anisotropy, Fall Joint Conference of the Geological Sciences, Oct 26-28, 2021. [Poster]
- † M.-S. Seo, **Y. Kim**, W.-Y. Kim (2021), Observation of repeating microearthquake cluster near Gwangyang city, South Korea, Fall Joint Conference of the Geological Sciences, Oct 26-28, 2021. [Poster]
- † S. Han, **Y. Kim** (2021), Back-projection imaging of small earthquake ruptures using the data from Gyeongju High-Density Broadband Seismic Network, Fall Joint Conference of the Geological Sciences, Oct 26-28, 2021. [Poster]
- Kwon, G.-B., B.-S. Ahn, D. Huh, T.-S. Kang, H. Lim, J. Han, **Y. Kim**, J. Rhie, K.-H. Kim, J.-H. Ree (2021), Imaging of shallow subsurface structure from linear geophone array using HVSR method, Fall Joint Conference of the Geological Sciences, Oct 26-28, 2021. [Poster]
- Ko, J.-W., T.-S. Kim, J.-H. Park, S.-Y. Oh, S.-J. Chang, K. Y. Kim, S.-M. Lee, **Y. Kim**, H. Utada, H. Kawakatsu, H. Shiobara, T. Isse, N. Takeuchi (2021), Analysis on microseism characteristics by typhoon 'HAGIBIS' using land and ocean-bottom seismometers, Fall Joint Conference of the Geological Sciences, Oct 26-28, 2021. [Poster]
- T.-S. Kim, S.-J. Chang, S.-M. Lee, **Y. Kim**, H. Utada, H. Kawakatsu, H. Shiobara, T. Isse, N. Takeuchi (2021), S-velocity structure of the oldest Pacific Basin from the ambient noise, Fall Joint Conference of the Geological Sciences, Oct 26-28, 2021. [Poster]
- T.-S. Kim, J.-H. Park, S.-Y. Oh, J.-W. Ko, S.-J. Chang, S.-M. Lee, **Y. Kim**, H. Utada, H. Kawakatsu, H. Shiobara, T. Isse, N. Takeuchi (2021), Characteristics of Background Noise in OLDEST-1 Array Deployed on the Oldest Part of the Pacific Plate, Fall Joint Conference of the Geological Sciences, Oct 26-28, 2021. [Poster]
- Fuji, N., H. Jang, A. Nakao, **Y. Kim**, D. F-Blanco, S.-M. Lee, A. Schroeder, K. Konish, F. Deschamps, L. Cobden, T. Franken, J. Armitage, and A. Fournier, Caroline plate from the top to the bottom: what's next?, presented at 2021 Pacific Array Workshop (virtual), 28 May 2021. [Oral]
- Kim, H., K. Baba, H. Utada, H. Shimizu, S.-M. Lee, H. Kawakatsu, **Y. Kim**, Oldest-1 Science Team, Preliminary 1-D Electrical Conductivity Structure of Oldest Oceanic Mantle from Magnetotelluric Observation (Oldest-1), presented at 2021 Pacific Array Workshop (virtual), 28 May 2021. [Oral]
- N. Takeuchi, Isse, T., H. Shiobara, H. Kawakatsu, H. Utada, S.-M. Lee, **Y. Kim**, Pn tomography for isotropic and anisotropic structures, presented at 2021 Pacific Array Workshop (virtual), 28 May 2021. [Oral]
- Isse, T., N. Takeuchi, K. Baba, H. Shiobara, A. Takeo, H. Kawakatsu, H. Utada, S.-M. Lee, **Y. Kim**, B.-Y. Kuo, P. Lin, and Oldest-1 and Oldest-2 Scientific Parties, Seafloor observation beneath the oldest Pacific, presented at 2021 Pacific Array Workshop (virtual), 28 May 2021. [Oral]

- † Kang, H., **Y. Kim**, S.-H. Hung, P. Lin, T. Isse, H. Shiobara, H. Kawakatsu, S.-M. Lee, H. Utada, N. Takeuchi, H. Sugioka, Upper mantle seismic velocity structure beneath the oldest Pacific Ocean basin from finite-frequency tomography, presented at 2021 Pacific Array Workshop (virtual), 28 May 2021. [iPoster]
- † Park, J.Y., **Y. Kim**, T. Isse, K.-H. Kim, H. Shiobara, H. Kawakatsu, S.-M. Lee, H. Utada, N. Takeuchi, H. Sugioka, W.-Y. Kim, Detection of seismicity at the oldest Pacific Plate using Oldest-1 ocean bottom seismic array data, presented at 2021 Pacific Array Workshop (virtual), 28 May 2021. [iPoster]
- Kawano, Y., T. Isse, A. Takeo, H. Kawakatsu, H. Shiobara, N. Takeuchi, H. Sugioka, **Y. Kim**, H. Utada, S.-M. Lee, Seismic structure of the lithosphere-asthenosphere system beneath the oldest seafloor revealed by the broadband dispersion analysis of the Oldest-1 data, JpGU meeting 2021 (virtual), May 30–June 6 2021.
- H. Kawakatsu, T. Isse, N. Takeuchi, H. Shiobara, H. Sugioka, **Y. Kim**, H. Utada, S.-M. Lee, Application of the wavefield decomposition for the Oldest-1 array data, JpGU meeting 2021 (virtual), May 30–June 6 2021.
- Xi, Z., Chen, M., Zhou, T., Wang B., **Kim, Y.** Full waveform inversion of the crust and upper mantle beneath the East Asia continent and western Pacific subduction zone, Abstract EGU21-13849 presented at virtual EGU General Assembly 2021, 19-30 April 2021. <https://doi.org/10.5194/egusphere-egu21-13849> [Oral]
- † Park, J.Y., **Y. Kim**, W.-Y. Kim, Earthquake source properties of 2021 ML 4.6 offshore Gunsan earthquake in Yellow Sea: Preliminary results, 2021 Spring KSEG meeting (virtual meeting), 24–26 March 2021. [iPoster]
- An, B., T.-S. Kang, K.-H. Kim, J. Rhie, **Y. Kim**, J.-H. Rhee, Seismic response from ambient noise of the dense seismic network in Gyeongju, Korea, 2021 Spring KSEG meeting (virtual meeting), 24–26 March 2021. [iPoster]
- † Seo, M.S., Y.O. Son, **Y. Kim**, Measurement of broadband seismometer orientation based on P-wavepolarization: application to permanent and dense temporary seismic arrays in South Korea, 2021 Spring KSEG meeting (virtual meeting), 24–26 March 2021. [iPoster]
- Heo, D., T.-S. Kang, K.-H. Kim, J. Rhie, **Y. Kim**, J.-H. Rhee, A high-density seismic network in Gyeongju and earthquake analysis system, 2021 Spring KSEG meeting (virtual meeting), 24–26 March 2021. [Invited Oral]
- # Lim, H., **Y. Kim**, J.-H. Ree, T.-S. Kang, K.-H. Kim, J. Rhie, Application of seismic array processing to assess station quality in Gyeongju, South Korea, 2021 Spring KSEG meeting (virtual meeting), 24–26 March 2021. [Invited Oral]
- Chang, K.W., H. Yoon, **Y. Kim**, M. Lee, Operational and geological controls of hydro-mechanical coupling effects on induced earthquakes in Pohang, South Korea, Abstract T002-0010 presented at Fall AGU meeting (virtual), 1–17 December 2020. [Poster]
- Xi, Z., M. Chen, T. Zhou, B. Wang, **Y. Kim**, Slab Thinning Controls the Distribution of Large Deep Intraslab Earthquakes in the Western Pacific Subduction Zones, Abstract T018-0021 presented at Fall AGU meeting (virtual), 1–17 December 2020. [Poster]
- Kawano, Y., T. Isse, A. Takeo, H. Kawakatsu, H. Shiobara, N. Takeuchi, H. Sugioka, **Y. Kim**, H. Utada, S.-M. Lee, Seismic structure of the lithosphere-asthenosphere system beneath the oldest seafloor – the broadband dispersion analysis of the Oldest-1 (Pacific Array) data, Abstract DI013-03 presented at Fall AGU meeting (virtual), 1–17 December 2020. [Poster]
- Kim, H., K. Baba, H. Utada, H. Shimizu, S.-M. Lee, H. Kawakatsu, **Y. Kim**, Oldest-1 Science Team, Preliminary 1-D Electrical Conductivity Structure of Oldest Oceanic Mantle from Magnetotelluric Observation, Pacific Array Project, Abstract DI012-0007 presented at Fall AGU meeting (virtual), 1–17 December 2020. [Poster]
- † Kang, H., **Y. Kim**, S.-H. Hung, P. Lin, T. Isse, H. Shiobara, H. Kawakatsu, S.-M. Lee, H. Utada, N. Takeuchi, H. Sugioka, Upper Mantle P-wave Velocity Structure beneath the Oldest Pacific Ocean Basin from Finite-frequency P-wave Traveltime Tomography, Abstract DI012-0008 presented at Fall AGU meeting (virtual), 1–17 December 2020. [Poster]
- Isse, T., H. Kawakatsu, S. Hajime, N. Takeuchi, H. Sugioka, **Y. Kim**, H. Utada, S.-M. Lee, K. Yoshizawa, Three dimensional shear wave structure in the upper mantle beneath the oldest Pacific plate, Abstract DI012-0009 presented at Fall AGU meeting (virtual), 1–17 December 2020. [Poster]
- † Yun, J., **Y. Kim**, R.W. Clayton, Spatial variation and frequency dependence of Lg wave attenuation along the CCSE array, and the impact of site response on Lg Q structure in central California, US, Abstract 8-1 presented at 2020 Fall Joint Conference of the Geological Sciences (virtual meeting), 27–29 October 2020. [Oral – **Best Presentation Award**]

- Heo, D., T.-S. Kang, K.-H. Kim, J. Rhie, **Y. Kim**, J.-H. Rhee, Construction of earthquake monitoring system for the seismic network in Gyeongju, Abstract 8-11 presented at 2020 Fall Joint Conference of the Geological Sciences (virtual meeting), 27–29 October 2020. [Oral]
- † Kim, J., **Y. Kim**, Detecting pore-fluid pressure changes with shear wave splitting measurements at Groningen gas field, Netherlands, Abstract 8-1 presented at 2020 Fall Joint Conference of the Geological Sciences (virtual meeting), 27–29 October 2020. [Poster – **Best Presentation Award**]
- † Park, J.Y., **Y. Kim**, T. Isse, K.-H. Kim, H. Shiobara, H. Kawakatsu, S.-M. Lee, H. Utada, N. Takeuchi, H. Sugioka, Detection and location of local earthquakes in the oldest Pacific plate using the Oldest-1 (Pacific Array) data, Abstract 8-2 presented at 2020 Fall Joint Conference of the Geological Sciences (virtual meeting), 27–29 October 2020. [Poster]
- # Lim, H., **Y. Kim**, F.-C. Lin, Fault zone structure imaged by teleseismic receiver function with geophone array in Clark fault, California, Abstract 8-3 presented at 2020 Fall Joint Conference of the Geological Sciences (virtual meeting), 27–29 October 2020. [Poster]
- † Yun, J., **Y. Kim**, R.W. Clayton, Spatial variation and frequency dependence of Lg wave attenuation with site response correction along the CCSE array in central California, US, 2020 KSEG meeting (virtual meeting), 24 September 2020. [Oral]
- # Lim, H., **Y. Kim**, J.-H. Ree, T.-S. Kang, K.-H. Kim, J. Rhie, Application of seismic array processing to assess station quality in Gyeongju, South Korea, 2020 KSEG meeting (virtual meeting), 24 September 2020. [Oral]
- Kawano, Y., T. Isse, A. Takeo, H. Kawakatsu, N. Takeuchi, H. Shiobara, **Y. Kim**, H. Utada, S.-M. Lee, The seismic structure of the oldest Pacific: Preliminary results from the broadband Rayleigh-wave dispersion analysis of Pacific Array, Oldest-1, JpGU-AGU Joint Meeting 2020 (virtual meeting), 15 July 2020. [iPoster]
- Utada, H., S.-S. Kim, **Y. Kim**, H. Shiobara, K. Baba, T. Isse, H.J. Kim, H. Kim, H. Sugioka, N. Takeuchi, Y. Kawano, H. Kawakatsu, S.-M. Lee, and onboard scientists of 2018/2019 Oldest cruises by R/V Isabu and R/V Onnuri, The Oldest Array: Japan-Korea Pacific Array collaboration to study the lithosphere-asthenosphere system below the oldest part of the Pacific Ocean, JpGU-AGU Joint Meeting 2020 (virtual meeting), 15 July 2020. [iPoster]
- Isse, T., H. Kawakatsu, H. Shiobara, N. Takeuchi, H. Sugioka, **Y. Kim**, H. Utada, S.-M. Lee, K. Yoshizawa, Three dimensional shear wave structure in the upper mantle beneath the oldest Pacific plate, JpGU-AGU Joint Meeting 2020 (virtual meeting), 15 July 2020. [iPoster]
- Kim, H., K. Baba, H. Utada, S.-M. Lee, H. Kawakatsu, **Y. Kim**, The Electrical Conductivity Structure of The Oldest Pacific: Preliminary Results from Magnetotelluric Observation Data of Pacific Array, Oldest-1, JpGU-AGU Joint Meeting 2020 (virtual meeting), 15 July 2020. [iPoster]
- † Kang, H., **Y. Kim**, S.-H. Hung, P.-Y. Lin, T. Isse, H. Shiobara, H. Kawakatsu, S.-M. Lee, H. Utada, N. Takeuchi, Seismic velocity structure beneath the oldest region of the Pacific ocean basin from multiscale finite-frequency traveltimes tomography, JpGU-AGU Joint Meeting 2020 (virtual meeting), 15 July 2020. [iPoster]
- Humphreys, E., Castellanos, J., Clayton, R.W., Perry-Houts, P., **Kim, Y.**, Niday, B., Stanciu, C. Northwest U.S. crustal seismic anisotropy suggests crustal flow driven by vertical loads in the underlying mantle, Abstract EGU2020-12438 presented at EGU General Assembly 2020 (virtual meeting), 7 May 2020. [Oral]
- Kawakatsu, H., Utada, H., Lee, S.-M., **Kim, Y.**, Shiobara, H., Takeuchi, N., Baba, K., Isse, T., Takeo, A., Kim, H. Oldest Array (Pacific Array on the oldest seafloor), the first result, Abstract EGU2020-2088 presented at EGU General Assembly 2020 (virtual meeting), 4 May 2020. [Poster]
- † Lim, H., **Kim, Y.**, Deng, K., Ree, J., Song, T. 2017 Mw 5.4 Pohang earthquake, South Korea and poroelastic stress change associated with fluid injection, Abstract T31E-0330 presented at Fall AGU meeting, San Francisco, CA, US, 11 December 2019. [Poster]
- Xi, Z., Chen, M., Zhou, T., Wang B., **Kim, Y.** Towards a Refined 3D Model of the Western Pacific Slab to Investigate the Nature of Deep Earthquakes, Abstract T21F-0384 presented at Fall AGU meeting, San Francisco, CA, US, 10 December 2019. [Poster]
- Shen, X., **Kim, Y.**, Song, T.-R., Lim, H. Data-oriented constraint on the interpretation of S receiver function and its application to observations of seismic discontinuities in the lithosphere-asthenosphere system, Abstract DI13C-0019 presented at Fall AGU meeting, San Francisco, CA, US, 9 December 2019. [Poster]

- Kawakatsu, H., Gaherty, J. B., Utada, H., Lee, S.-M., **Kim, Y.**, Eilon, Z. New progress in building Pacific Array: an international collaboration to image mantle dynamic processes across the Pacific basin, Abstract D111A-01 presented at Fall AGU meeting, San Francisco, CA, US, 9 December 2019. [Invited oral]
- † Kim, E., **Kim, Y.**, Mainprice, D., Modeling the anisotropic seismic velocities using the effective medium theory for interpreting seismic characteristics of crustal and mantle rocks, Annual Meeting of the Geological Society of Korea and 2019 Fall Joint Conference of the Geological Sciences, Jeju, S. Korea, Oct. 23–26, 2019 (presentation on Oct. 24). [Oral – **Best Presentation Award**]
- † Yun, J., **Kim, Y.**, Clayton, R.W., Spatial variation of the Lg wave attenuation along the CCSE array in central California, The 74th Annual Meeting of the Geological Society of Korea and 2019 Fall Joint Conference of the Geological Sciences, Jeju, S. Korea, Oct. 23–26, 2019 (presentation on Oct. 24). [Poster]
- † Kang, H., **Kim, Y.**, Rhie, J., Kang, T.-S., Seismic Crustal Structure Beneath Jeju Volcanic Island, South Korea, 4th International Conference on Earthquake Early Warning, Seoul, Sep. 4–6, 2019 (presentation on Sep. 5). [Poster]
- † Kim, E., **Kim, Y.**, Mainprice, D., Modeling the anisotropic seismic properties of cracked materials using the effective medium theory with MATLAB-based software, 4th International Conference on Earthquake Early Warning, Seoul, Sep. 4–6, 2019 (presentation on Sep. 5). [Poster]
- † Lim, H., Jang, H., **Kim, Y.**, Clayton, R.W., Thurber, C., Seismic structure of the Nazca Plate subduction zone in southern Peru, 4th International Conference on Earthquake Early Warning, Seoul, Sep. 4–6, 2019 (presentation on Sep. 5). [Poster]
- † Kang, H., **Kim, Y.**, Rhie, J., Kang, T.-S., Seismic Crustal Structure Beneath Jeju Volcanic Island, South Korea, AOGS 16th Annual Meeting, Singapore, Jul 28–Aug 2, 2019 (presentation on July 29). [Oral]
- Utada, H., Kim, S.-S., Shiobara, H., Baba, K., Isse, I., Takeuchi, N., Kim, H., Kawakatsu, H., **Kim, Y.**, Lee, S.-M., and onboard scientists of the 2018 Oldest cruise by R/V Isabu, The oldest array: Japan-Korea collaboration to study the lithosphere-aesthenosphere system below the oldest part of the Pacific ocean, 27th IUGG General Assembly, Montreal Canada, July 8–18, 2019 (presentation on July 16). [Poster]
- † Lim, H., **Kim, Y.**, Deng, K., Ree, J., Song, T., Kim, K.-H. 2017 Mw 5.4 Pohang earthquake, South Korea and poroelastic stress change associated with fluid injection, Abstract presented at the 2nd Korea Geoscience Union meeting, Pyungchang, Korea, 4 July 2019. [Poster]
- † Jang, H., **Y. Kim**, R.W. Clayton, Seismic attenuation structure beneath Nazca Plate subduction zone in southern Peru, 2019 Seismological Society of America Annual Meeting, Seattle, Washington, April 22–26, 2019. [Oral]
- Castellanos, J. C., R.W. Clayton, **Y. Kim**, E.D. Humphreys, Imaging the crust and upper mantle beneath Columbia River flood basalts with ambient seismic noise, regional and tele seismic events and converted phases, 2019 Seismological Society of America, Annual Meeting, Seattle, Washington, April 22–26, 2019. [Oral]
- † E. Kim, **Y. Kim**, D. Mainprice, Modeling the anisotropic seismic properties of rocks using mineral composition and microstructure based on effective medium theory with MATLAB software, 2019 Joint Conference of the Geological Science & Technology of Korea, 17–19 April 2019. [Oral]
- † E. Kim, **Y. Kim**, D. Mainprice, Calculating the anisotropic seismic properties of a polycrystalline aggregate using self-consistent approximation with a MATLAB software, EGU2019-11762 presented at EGU General Assembly 2019, Vienna, Austria, 10 April 2019. [Poster]
- J.-H. Ree, Kim, K.-H., S. Kim, H. Lim, W. Seo, **Y. Kim**, Fluid-driven reactivation of unfavorably oriented faults for the 2017 Pohang earthquake sequence, EGU2019-5043 presented at EGU General Assembly 2019, Vienna, Austria, 9 April 2019. [Poster]
- Kim, K.-H., J.-H. Ree, **Y. Kim**, S. Kim, S.Y. Kang, W. Seo, The 15 November 2017 Pohang earthquake, Abstract Book, presented at Third Schatzalp Workshop on Induced Seismicity, Davos, Switzerland, 5–8 Mar. 2019. [Poster]
- J.-H. Ree, Kim, K.-H., S. Kim, H. Lim, W. Seo, **Y. Kim**, Reactivation of unfavorably-oriented faults for the 2017 Pohang earthquake sequence: driven by fluid overpressure?, Abstract Book, presented at Third Schatzalp Workshop on Induced Seismicity, Davos, Switzerland, 5–8 Mar. 2019. [Poster]
- † Jang, H., **Y. Kim**, R.W. Clayton, Seismic attenuation structure beneath Nazca Plate subduction zone in southern Peru, Abstract D143C-2169 presented at Fall AGU meeting, Washington D.C., US, 13 December 2018. [Poster]

- Ding, S., S. Ni, **Y. Kim**, X. He, A study of crust-mantle transition zone based on Pn waveforms: Application to tectonic affinity between eastern China and southern Korean Peninsula, Abstract T43F-3683 presented at Fall AGU meeting, Washington D.C., US, 13 December 2018. [Poster]
- Kim, M., T.-S. Kang, H. J. Yoo, J. Rhie, **Y. Kim**, K.-H. Kim, Y. Park, Development of an automatic analysis algorithm for dense temporary seismic network and its application to the 2016 M_L 5.8 Gyeongju earthquake sequence, Korea, Abstract S33E-3573 presented at Fall AGU meeting, Washington D.C., US, 12 December 2018. [Poster]
- Ree, J.-H., K.-H. Kim, S. Kim, **Y. Kim**, H. Lim, Rupture propagation and segmentation of the 2017 Pohang earthquake, Abstract S23B-3139 presented at Fall AGU meeting, Washington D.C., US, 11 December 2018. [Poster]
- Kim, K.-H., J.-H. Ree, **Y. Kim**, S. Kim, S.Y. Kang, W. Seo, The 15 November 2017 Pohang earthquake, Abstract S23B-3132 presented at Fall AGU meeting, Washington D.C., US, 11 December 2018. [Poster]
- † Lim, H., **Kim, Y.**, Deng, K., Ree, J., Song, T. 2017 Mw 5.4 Pohang earthquake, South Korea and poroelastic stress change associated with fluid injection, Abstract S23B-3141 presented at Fall AGU meeting, Washington D.C., US, 11 December 2018. [Poster]
- † E. Kim, **Y. Kim**, J.-H. Ree, D. Mainprice, H. Lim, Towards Modeling the Seismic Velocity Structure of the Pohang Enhanced Geothermal System Site in Korea, Abstract S23B-3142 presented at Fall AGU meeting, Washington D.C., US, 11 December 2018. [Poster]
- Lee, S.-J., J. Rhie, S. Kim, T.-S. Kang, **Y. Kim**, J. Han, Upper crustal shear wave velocity and radial anisotropy beneath Jeju Island from ambient noise tomography, Abstract DI13B-1740 presented at Fall AGU meeting, Washington D.C., US, 11 December, 2018. [Poster] Washington D.C., US, 10 December 2018. [Poster]
- † Kang, H., **Y. Kim**, Crustal and uppermost mantle structure of Nazca plate beneath southern Peru using teleseismic P-receiver functions, Abstract DI13B-1724 presented at Fall AGU meeting, Washington D.C., US, 10 December 2018. [Poster]
- † Lim, H., **Y. Kim**, T.-R. Song, X. Shen, Measurement of seismometer orientation using the tangential P-wave receiver function based on harmonic decomposition, 2018 KSEG meeting. [Oral]
- † Lim, H., **Y. Kim**, T.-R. Song, X. Shen, Measurement of seismometer orientation using the tangential P-wave receiver function based on harmonic decomposition, Abstract SE28-A010 presented at 2018 AOGS meeting, Hawaii, US, 7 June. [Poster]
- Lee, S.-J., J. Rhie, S. Kim, T.-S. Kang, **Y. Kim**, Upper Crustal Isotropic and Anisotropic Shear-wave Velocity Structures Beneath Jeju Island from Ambient Noise Tomography, Abstract SE03-A041 presented at 2018 AOGS meeting, Hawaii, US, 7 June. [Poster]
- † Jang, H., **Y. Kim**, R.W. Clayton, Seismic attenuation structure beneath Nazca Plate subduction zone in southern Peru, Abstract SE02-A051 presented at 2018 AOGS meeting, Hawaii, US, 6 June. [Oral]
- † Lim, H., **Y. Kim**, R.W. Clayton, C. H. Thurber, Seismic imaging of southern Peruvian subduction zone: velocity heterogeneity in the Nazca slab and mantle wedge, Abstract SE08-A011 presented at 2018 AOGS meeting, Hawaii, US, 5 June. [Oral]
- Shen, X., **Y. Kim**, T.-R. Song, H. Lim, Construction of stable S receiver function and its application to observations of seismic discontinuities in the lithosphere-asthenosphere system beneath South Korea, Abstract SIT28-P08 presented at 2018 JpGU-AGU joint meeting, Japan, 22 May. [Poster]
- † Kang, H., **Kim, Y.**, Rhie, J., Kang, T.-S., Seismic Crustal Structure Beneath Jeju Volcanic Island, South Korea, Spring Meeting of KSEG, May 10, 2018. [Poster – **Best Presentation Award**]
- Ree, J.-H., K.-H. Kim, **Y. Kim**, 2017 M5.4 earthquake in Pohang and anthropogenic activities. 2018 Joint international conference of the geological science & technology of Korea, Apr. 19, 2018. [Oral]
- Kim, K.-H., W. Seo, J. Han, S. Y. Kang, J.-H. Ree, T.-S. Kang, J. Rhie, **Y. Kim**, The 15 November 2017, Mw 5.4, Pohang earthquake in Korea: fluid induced?, Abstract EGU2018-5740-1, Vol. 20, presented at 2018 EGU General Assembly, Vienna, Austria, 13 Apr. 2018. [Poster]
- † Jang, H., **Y. Kim**, R.W. Clayton, Seismic attenuation structure beneath Nazca Plate subduction zone in southern Peru, Abstract T31D-0663 presented at 2017 AGU meeting, New Orleans, 13 Dec. [Poster]
- Park, J., T.-S. Kang, K.-H. Kim, J. Rhie, **Y. Kim**, Making initial earthquake catalogs from a temporary seismic network for monitoring aftershocks, Abstract S21B-0703 presented at 2017 AGU meeting, New Orleans, 12 Dec. [Poster]

- Keranen, K.M., D. Kim, G.A. Abers, **Y. Kim**, J. Li, D.J. Shillington, L.D. Brown, High-resolution imaging of the low velocity layer in Alaskan subduction zone with scattered waves and interferometry, Abstract T14B-08 presented at 2017 AGU meeting, New Orleans, 11 Dec. [Oral]
- Heo, D., J. Park, T.-S. Kang, J. Rhie, **Y. Kim**, K.-H. Kim, Quality control of temporary dense broadband seismic network deployed for aftershock monitoring, Abstract S11C-0595 presented at 2017 AGU meeting, New Orleans, 11 Dec. [Poster]
- Kang, T.-S., K.-H. Kim, J. Rhie, **Y. Kim**, The 12 September 2016 ML 5.8 Gyeongju, Korea, earthquake: Observation and questions, Abstract **SSS08-04** presented at 2017 JpGU-AGU joint meeting, Japan, 20 Dec. [Poster]
- § Kim, H., **Y. Kim**, Lithospheric structure of East Sea of Korea from teleseismic receiver functions: Seismic evidence of ancient back-arc basin opening, Abstract SIT29-P01 presented at 2017 JpGU-AGU joint meeting, Japan, 23 May. [Poster]
- † Jang, H., **Y. Kim**, R.W. Clayton, Seismic attenuation structure beneath Nazca Plate subduction zone in S. Peru, Abstract SIT28-P04 presented at 2017 JpGU-AGU joint meeting, Japan, 20 May. [Poster]
- † Jang, H., N. Fuji, D. Fernandez-Blanco, **Y. Kim**, K. Konishi, S.-M. Lee, S. Yuan, Quasi-3D seismological imaging of Caroline plate using Monte-Carlo waveform inversion of teleseismic SS phases, Abstract SIT23-03 presented at 2017 JpGU-AGU joint meeting, Japan, 21 May. [Oral]
- † Lim, H., **Y. Kim**, F.-C. Lin, Fault zone structure imaged by teleseismic receiver function with geophone array in Clark fault, California, Spring Meeting of Korea Society of Earth and Exploration Geophysics, Inha University, Korea, 11 May 2017. [Poster – **Best Presentation Award**]
- § Kim, H., **Y. Kim**, Seismic anisotropy of oceanic islands in East Sea of Korea from P-receiver functions: Implication for tectonic origin of the backarc basin, EGU2017-3447 presented at 2017 EGU, Vienna, 28 Apr 2017. [Poster]
- † Lim, H., **Y. Kim**, T.-R. Song, X. Shen, Orientations of borehole seismic stations in South Korea, 2017 Joint Conference of the Geological Science & Technology of Korea, Gyeongju, Korea, 19–21 Apr, 2017. [Oral]
- † Hyung, S., **Y. Kim**, Teleseismic Constraints on Crustal structure of the Grenville Province in eastern North America, 2017 Joint Conference of the Geological Science & Technology of Korea, Gyeongju, Korea, 19–21 Apr, 2017. [Poster]
- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Joint inversion for Vp/Vs structure of the upper oceanic crust beneath the Endeavour segment of the Juan de Fuca Ridge, Abstract T13B-2720 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12–16 Dec. [Poster]
- Fuji, N., H. Jang, **Y. Kim**, K. Konishi, S.-M. Lee, Seismological structure beneath the Caroline plate obtained using 1D Monte-Carlo waveform inversion, Abstract T31-2924 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12–16 Dec. [Poster]
- † Lim, H., **Y. Kim**, R.W. Clayton, C. H. Thurber, Seismicity and structure of Nazca Plate subduction zone in southern Peru, Abstract S43B-2842 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12–16 Dec. [Poster]
- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Seismic velocity structure of the upper oceanic crust beneath the Endeavour segment of the Juan de Fuca, 19th SNU-HU Joint Symposium, Hokkaido University, Japan, 2016.11.25. [Poster]
- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Seismic velocity structure of the upper crust beneath the Endeavour segment of the Juan de Fuca Ridge from joint inversion of P and S wave travel-times, 2016 Fall Meeting of Korean GSA, Pyungchang Convention Center, 27 Oct 2016. [Oral]
- † Jang, H., Y. Kim, T.-S. Kang, J. Rhie, Seismic attenuation structure beneath Jeju island, S. Korea, 2016 Fall Meeting of Korean GSA, Pyungchang Convention Center, 27 Oct 2016. [Poster]
- § Kim, H., **Y. Kim**, Lithospheric structure of oceanic islands in East Sea of Korea from teleseismic receiver functions: Implication for tectonic origin of the ocean basin, 2016 Fall Meeting of Korean GSA, Pyungchang Convention Center, 27 Oct 2016. [Poster – **Best Presentation Award**]
- † Jang, H., **Y. Kim**, R.W. Clayton, Seismic attenuation structure beneath Southern Peru, 2016 Fall Meeting of Korean GSA, Pyungchang Convention Center, 27 Oct 2016. [Poster]
- † Hyung, S., **Y. Kim**, Moho depth variation and seismic anisotropy underneath the Grenville Province and Appalachian Mountains in eastern North America using teleseismic receiver function, 2016 Fall Meeting of Korean GSA, Pyungchang Convention Center, 27 Oct 2016. [Poster]

- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Joint inversion for the upper crustal Vp/Vs structure using P and S wave data from the seismic experiment in the Endeavour, 2016 Fall meeting of KSEG, Korea Polar Research Institute, 6 Oct 2016. [Oral]
- § Kim, H., **Y. Kim**, Crustal and upper mantle structure of volcanic islands of Korea using teleseismic receiver functions, 2016 Fall meeting of KSEG, Korea Polar Research Institute, 6 Oct 2016. [Poster – **Best Presentation Award**]
- † Jang, H., **Y. Kim**, T.-S. Kang, J. Rhie, Seismic attenuation structure beneath Jeju Island, S. Korea, 2016 Fall meeting of KSEG, Korea Polar Research Institute, 6 Oct 2016. [Oral]
- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Upper crustal Vp/Vs structure at the Endeavour segment of the Juan de Fuca Ridge from joint inversion of P and S wave traveltimes, The 1st Asia-Pacific Workshop on Lithosphere and Mantle Dynamics, Taiwan Yangminshan, 2016.9.23. [Poster]
- Shen, X., T.-R. A. Song, **Y. Kim**, T. Tonegawa, H. Lim, K. Shiomi, Seismological constraint of velocity and density contrast across the upper mantle discontinuities beneath East Asia, 15th Symposium of Study of the Earth's Deep Interior, Nantes, France, July 24–29, 2016. [Poster]
- † Jang, H., **Y. Kim**, T.-S. Kang, J. Rhie, Seismic attenuation structure beneath Jeju Island, S. Korea, 2016 Spring Meeting of KSEG, Yonsei University, 31 May 2016. [Poster]
- † Jang, H., **Y. Kim**, T.-S. Kang, J. Rhie, Seismic attenuation structure beneath Jeju Island, S. Korea, 2016 Spring Meeting of Korea GSA, Bexco Busan, Apr. 20–22, 2016. [Poster – **Best Presentation Award**]
- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Joint inversion for crustal Vp/Vs structure at the Endeavour segment of the Juan de Fuca Ridge, 2016 Spring Meeting of Korea GSA, Bexco Busan, Apr. 20–22, 2016. [Oral]
- Audet, P., **Y. Kim**, Teleseismic scattering constraints on the geological environment of deep episodic slow earthquakes in subduction zone forearcs, AGU Chapman Conference, Ixtapa, Guerrero, Mexico, Feb. 21–25, 2016 (presented on Feb. 23). [Invited oral]
- † Lim, H., **Y. Kim**, R.W. Clayton, C. H. Thurber, Seismicity and structure of Nazca Plate subduction zone in southern Peru, Abstract T51D-2918 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 15–19 Dec. [Poster]
- Lee, S.-J., J. Rhie, S. Kim, T.-S. Kang, **Y. Kim**, Ambient seismic noise tomography of Jeju Island, South Korea, Abstract S23D-2775 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 15–19 Dec. [Poster]
- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Upper crustal velocity and porosity structures beneath the Endeavour segment, Juan de Fuca Ridge, Abstract V21A-3024 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 15–19 Dec. [Poster]
- Shen, W., M. Ritzwoller, Y. Zheng, F.-C. Lin, **Y. Kim**, J. Ning, D. Kang, L. Feng, D. Wiens, Crust Uppermost Mantle Structure beneath Eastern Asia: Progress towards a Uniform, Tightly Constrained, High Resolution 3-D Model, Abstract S11B-06 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 15–19 Dec. [Oral]
- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Upper crustal velocity and porosity structures beneath the Endeavour segment, Juan de Fuca Ridge, 18th SNU-HU Joint Symposium, SNU, Nov. 27, 2015. [Oral]
- † Lim, H., **Y. Kim**, R.W. Clayton, C. H. Thurber, Seismicity and structure of Nazca Plate subduction zone in southern **Y. Kim**, R. W. Clayton, C. H. Thurber, Seismicity and structure of Nazca Plate subduction zone in southern Peru, 2015 Fall Joint Conference of KSMER / KSRM / KSEG, Jeju, Korea, Oct. 29–30, 2015. [Oral]
- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Upper crustal velocity and porosity structures beneath the Endeavour segment, Juan de Fuca Ridge, 2015 Fall Joint Conference of Geological Science of Korea, Jeju, Korea, Oct. 28–29, 2015. [Oral]
- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Upper crustal velocity and porosity structures beneath the Endeavour segment, Juan de Fuca Ridge, The 2nd InterRidge International Workshop, Circum-Antarctic Ridges, Korea Polar Research Institute, Oct. 12–15, 2015. [Oral]
- Wei, M., H. Li, D. Li, Y. Liu, **Y. Kim**, What controls the spatial-temporal evolution of slow slip events in south central Alaska? Theoretical & Experimental Institute for the Subduction Cycles & Deformation Initiative, Redondo Beach, CA, October 12–14, 2015. [Poster]

- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Compressional and shear wave structure of the upper crust beneath the Endeavour Segment, Juan De Fuca ridge, The 8th International Conference on Asian Marine Geology, Jeju, Korea, Oct. 5–10, 2015. [Oral]
- † Lim H., **Y. Kim**, R.W. Clayton, C. H. Thurber. Seismicity and structure of Nazca Plate subduction zone in southern Peru, The 3rd international summer school on Earthquake Science "Monitoring physical properties associated with tectonic processes", Yamanashi, Japan, September 4–8, 2015. [Poster]
- Rhie, J., Lee, S.-I., Kim, S.-R., Kang, T.-S., **Kim, Y.** Ambient seismic noise of Jeju Island, South Korea, Earthquake Engineering Society of Korea (EESK) Annual Conference, September 10, 2015. [Oral]
- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Compressional and shear wave structure of the upper crust beneath the Endeavour Segment, Juan De Fuca ridge, 2015 Joint conference of the Geological Science & Technology of Korea, Gwangju, Korea, April 22–24, 2015. [Oral]
- † Lim H., **Y. Kim**, R.W. Clayton, Imaging the Nazca slab in southern Peru by regional seismicity, 2015 Joint conference of the Geological Science & Technology of Korea, Gwangju, Korea, April 22–24, 2015. [Poster]
- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Compressional and shear wave structure of the upper crust beneath the Endeavour Segment, Juan De Fuca ridge, Earthquake Engineering Society of Korea (EESK) Annual Conference, March 27, 2015. [Oral]
- † Kim, E., D. Toomey, E. Hooft, W. Wilcock, R. Weekly, S.-M. Lee, **Y. Kim**, Compressional and shear wave structure of the upper crust beneath the Endeavour Segment, Juan De Fuca ridge, Abstract V31B-4749 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15–19 Dec. [Poster]
- † Lim H., **Y. Kim**, J. Rhie, Mantle transition zone structure beneath the western Gulf of Mexico and central southern US from triplicated P waveforms, Abstract D141B-4338 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15–19 Dec. [Poster]
- † Lim H., **Y. Kim**, R.W. Clayton, Imaging the Peruvian subduction structure by the high-precision earthquake relocation, The 17th Hokkaido University-Seoul National University Joint Symposium, Hokkaido University, November 28, 2014. [Oral]
- † Lim H., **Y. Kim**, R.W. Clayton, Imaging the Peruvian subduction structure by the high-precision earthquake relocation, Fall Joint Annual conference of the Geological Societies in Korea, Gangwon-do, Korea, October 29–30, 2014. [Oral]
- † Lim H., **Y. Kim**, R.W. Clayton, Imaging the Peruvian subduction structure by the high-precision earthquake relocation, Geoscience Workshop, Jeju, S. Korea, Oct. 13–14, 2014. [Poster]
- Kang, T.-S., J. Rhie, **Y. Kim**, K.-H. Kim, Development of Technologies for Optimization of Seismograph Network with Low-cost Seismographs in the Metropolitan Area, Earthquake Engineering Society of Korea, Fall Workshop, Sep. 26–27, 2014. [Oral]
- † Lim H., **Y. Kim**, R.W. Clayton, Imaging the Peruvian subduction structure by the high-precision earthquake relocation, Advanced Seismic Imaging of the Lithosphere, University of Copenhagen, Denmark, Sep. 1–5, 2014. [Poster]
- † Lim H., **Y. Kim**, Imaging subduction structures beneath southern Mexico and southern Peru by the high-precision earthquake relocation, Center for International Area Studies, Seoul, Korea, July 4, 2014. [Poster]
- Abers, G., **Y. Kim**, D. Saffer, D. Shillington, J. Li, H. Janiszewski, What do seismic imaging constraints really tell us about the fault zone in which great earthquakes and slow slip operate? Seismological Society of America, 2014 Annual Meeting, Anchorage, Alaska, April 30–May 2, 2014. [Invited oral]
- † Jang M., **Y. Kim**, Crustal properties beneath S. Korean Peninsula: Constraints from teleseismic receiver functions, Abstract P349, 2014 Joint conference of the Geological Science & Technology of Korea, Busan, Korea, April 20–23, 2014. [Poster]
- † Lim H., **Y. Kim**, Comparing southern Mexican and southern Peruvian subduction zones by high-precision earthquake relocation, Abstract P353, 2014 Joint conference of the Geological Science & Technology of Korea, Busan, Korea, April 20–23, 2014. [Poster – **Best Presentation Award**]
- Abers, G.A., **Y. Kim**, D.H. Christensen, Subduction of thick crust: the Alaska example, Abstract T24A-03 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9–13 Dec. [Invited oral]
- Eilon, Z., G.A. Abers, G. Jin, **Y. Kim**, J.B. Gaherty, Teleseismic body wave tomography within a highly extended continental rift: the Woodlark Rift, Papua New Guinea, Abstract T12B-07 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9–13 Dec. [Oral]

- Jin, G., J.B. Gaherty, G.A. Abers, **Y. Kim**, Z. Eilon, W.R. Buck, R. Verave, Surface wave tomography of D'Entrecasteaux Islands, Papua New Guinea, Implication of mantle control on localization of extension and exhumation, Abstract T21B-2554 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9–13 Dec. [Oral]
- O'Driscoll, L., M.S. Miller, **Y. Kim**, Imaging the lithosphere-asthenosphere boundary of the northern cordillera using Sp receiver functions, Abstract T33A-2608 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9–13 Dec. [Oral]
- † Kim, E., R.T. Weekly, D.R. Toomey, E.E.E. Hooft, W.S.D. Wilcock, S.-M. Lee, **Y. Kim**, Three-dimensional Velocity Structure of the Endeavour Segment of the Juan de Fuca Ridge, The Geological Society of Korea, Abstract P108, 2013 Fall Joint Annual conference of the Geological Societies in Korea, Jeju, Korea, October 23–25, 2013. [Poster]
- † Jang M., **Y. Kim**, Three-dimensional Moho topography beneath Korea: constraints from teleseismic receiver functions and wide-angle seismic refraction data, The Geological Society of Korea, Abstract P293, 2013 Fall Joint Annual conference of the Geological Societies in Korea, Jeju, Korea, October 23–25, 2013. [Poster]
- Clayton, R.W., **Y. Kim**, K.E. Phillips, S.L. Dougherty, X. Perez-Campos, A Comparison of Flat Subduction in Central Mexico and Southern Peru, AGU Meeting of the Americas, Cancun, Mexico, May 14–17, 2013. [Oral]
- † Kim, E., D.R. Toomey, E.E.E. Hooft, W.S.D. Wilcock, S.-M. Lee, **Y. Kim**, Exploring the Endeavour Segment in Cascadia through an array of Ocean-Bottom Seismometers, The Korean Society of Economic and Environmental Geology, Abstract PF6, 2013 Joint conference of the Geological Science & Technology of Korea, Changwon, Korea, April 24–26, 2013. [Poster]
- Abers, G.A., **Y. Kim**, J. Gaherty, Z. Eilon, J. Ge, R. Verave, Imaging to understand exhumation of UHP rocks during rifting: the 2010-2011 CDPapua seismic experiment, Abstract T42C-06 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3–7 Dec. [Invited oral]
- Eilon, Z., G. A. Abers, **Y. Kim**, J.B. Gaherty, J. Ge, R. Verave, L. M. Wallace, Seismic Anisotropy and mantle structure beneath the D'Entrecasteaux Islands, Papua New Guinea, Abstract T42C-07 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3–7 Dec. [Oral]
- Jin, G., J. Gaherty, G. Abers, **Y. Kim**, Z. Eilon, R. Buck, R. Varave, Imaging Crust and Mantle Structure beneath the D'Entrecasteaux Islands, Papua New Guinea, from Rayleigh Wave Tomography, Abstract T43E-2719 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3–7 Dec. [Oral]
- Clayton, R.W., T. Chen, **Y. Kim**, X. Perez-Campos, Three-dimensional structure of the subduction system in central and southern Mexico, 2012 Union Geofisica Mexicana (UGM) meeting, Puerto Vallarta, Jalisco, Mexico, Oct. 28–Nov. 2, 2012. [Oral]
- Abers, G.A., J. Gaherty, Z. Eilon, **Y. Kim**, J. Ge, R. Verave, Imaging to understand exhumation of UHP rocks during rifting: the 2010-2011 CDPapua seismic experiment, 34th International Geological Congress, Brisbane, Australia, Aug. 5–10, 2012. [Oral]
- Eilon, Z., **Y. Kim**, G.A. Abers, J. B. Gaherty, J. Ge, R. Verave, L. M. Wallace, Anisotropy beneath the propagating Woodlark rift, Papua New Guinea: a comparison of four shear wave splitting techniques, IRIS Workshop, Boise, Idaho, June 13–15, 2012.
- Song, T-R., **Y. Kim**, Localized Seismic Anisotropy associated with Long-Term Slow Slip Events beneath Souther Mexico, International Conference on a New Perspective of Great Earthquakes along Subduction Zones, Kochi, Japan, Feb. 28–Mar. 1, 2012.
- Miller, M.S., **Y. Kim**, F. Pearce, R. W. Clayton, Seismic imaging of the Middle America Subduction Zone beneath Mexico, Abstract DI43B-08 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5–9 Dec.
- Li, J., G.A. Abers, D. H. Christensen, **Y. Kim**, J. A. Calkins, Preliminary earthquake locations in the Kenai Peninsula from automatic onset estimation of events recorded by the MOOS array, Abstract T33A-2377 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5–9 Dec.
- Song, T-R., **Y. Kim**, Anisotropic Mantle Lid in Young Subducted Slab underplating Central Mexico, Abstract SIT002-11, JpGU (Japan Geoscience Union) International Symposium 2011, Chiba-city, Japan, May 22–27, 2011.
- Song, T-R., **Y. Kim**, Anisotropic Mantle Lid in Young Subducted Slab underplating Central Mexico, International Conference on Craton Formation and Destruction, Beijing, China, April 25–29, 2011.
- Song, T-R., **Y. Kim**, Localized Seismic Anisotropy associated with Ultra-Slow Velocity Layer and Slow-Slip Events beneath Central Mexico, Seismological Society of America (SSA) 2011 Annual Meeting, Memphis, Tennessee, April 13–15, 2011.

- Song, T.-R., **Y. Kim**, Anisotropic Mantle Lid in Young Subducted Slab underplating Central Mexico, Abstract S21C-2043 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13–17 Dec.
- Pérez-Campos, X., R.W. Clayton, A. Iglesias, T. Chen, **Y. Kim**, D. Melgar-Moctezuma, C. Valdés-González, J. F. Pacheco, VEOX: A New Seismic Line in Mexico to Reveal Cocos Behavior, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract T23B-2039, San Francisco, CA, December 15–19, 2008.
- Melgar-Moctezuma, D., X. Pérez-Campos, **Y. Kim**, R.W. Clayton, A. Iglesias, VEOX: Receiver Functions Across the Isthmus of Tehuantepec, Mexico, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract T13D-1992, San Francisco, CA, December 15–19, 2008.
- Perez-Campos, X., D. Melgar-Moctezuma, **Y. Kim**, R.W. Clayton, A. Iglesias, VEOX: A glimpse to the seismic structure along the Isthmus of Tehuantepec, *Union Geofisica Mexicana (UGM)*, November 2008.
- J. Tromp, **Y. Kim**, Southern California Adjoint Source Inversions, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract S51B-0498, San Francisco, CA, December 10–14, 2007.
- Strand, L., **Y. Kim**, J. Tromp, D. Komatitsch, C. Tape, W. Mei, P. Olson, L. Armendariz, S. Kientz, CIG science gateways: Using supercomputers through a browser, CIG/SPICE/IRIS Computational Seismology Workshop, Jackson, New Hampshire, October 9–11, 2007.
- Greene-Gondi, F., L. Espejo-Arellano, X. Pérez-Campos, **Y. Kim**, R.W. Clayton, Geometry of Cocos Plate beneath Guerrero using Receiver Functions, *Eos Trans. AGU*, 88(23), Spring Meet. Suppl., Abstract S43B-02, Acapulco, Mexico, May 22–25, 2007.
- Clayton, R.W., X. Pérez-Campos, P. Davis, A. Iglesias, **Y. Kim**, T. Chen, A. Husker, F. Greene, L. Espejo, L. Ferrari, D. Moran, J. Eiler, M. Gurnis, V. Manea, C. Valdez, J. Stock, V. Kostoglodov, MASE: Shallow Subduction in Central Mexico, Tectonic Observatory Meeting, Caltech, Pasadena, CA, November 8–9, 2006.
- Clayton, R.W., X. Pérez-Campos, P. Davis, A. Iglesias, **Y. Kim**, T. Chen, A. Husker, F. Greene, L. Espejo, Seismic Results from the MASE Trans-Mexico Survey, *Union Geofisica Mexicana (UGM)*, November 2006.
- Clayton, R.W., X. Perez-Campos, A. Husker, A. Iglesias, **Y. Kim**, V. Manea, P. Davis, L. Ferrari, M. Gurnis, V. Kostoglodov, D.M. Zentano, S.K. Singh, J. Stock, Flat Slab Subduction in Central Mexico as Determined by the MASE Project, Argentina Meeting, Backbone of America Conference, Mendoza, April 3–7, 2006.