EUNSEO CHOI

(901) · 678 · 4923 ♦ echoi2@memphis.edu

Center for Earthquake Research and Information \diamond University of Memphis

http://www.ceri.memphis.edu/people/echoi2/

EDUCATION

Ph.D. in Geophysics

California Institute of Technology, Pasadena, CA, 2008.

Advisor: Michael Gurnis

Thesis title: Computational approaches to localized deformation within the lithosphere and for crust-

mantle interactions

http://resolver.caltech.edu/CaltechETD:etd-09212008-122525

B.Sc. in Geology

Seoul National University, South Korea, 1999.

Advisor: Moonsup Cho

Thesis title: Petrogenesis of Amphibolite in Yeon-cheon and Cheon-gok Area (South Korea).

POSITIONS HELD

Associate Professor

• September 2018 - Present. Center for Earthquake Research and Information, University of Memphis,

Assistant Professor

• January 2013 - August 2018. Center for Earthquake Research and Information, University of Memphis,

Postdoctoral Research Scientist

- Institute for Geophysics, University of Texas, Austin, 2012.2 to 2012.12. Advisor: Luc Lavier
- Lamont-Doherty Earth Observatory of Columbia University, 2008.10 to 2012.1. Advisor: W. Roger Buck

RESEARCH INTERESTS

Overview of public projects on Open Science Framework

https://osf.io/wd6jz/

On-going and recent research topics

- Faults formation and evolution associated with plate boundary processes.
- 3D structures at mid-ocean ridges including oceanic core complexes.
- Seismo-tectonics of intra-plate seismic zones
- Applying advances in computational techniques (e.g., adaptive mesh refinement, acceleration using coprocessors) to DynEarthSol3D.
- Coupling tectonic models to surface processes (SNAC-CHILD coupling).

PUBLICATIONS

Journal articles

- Fadugba, O. I., E. Choi, and C. A. Powell (2019), Effects of Preexisting Structures on the Seismicity of the Charlevoix Seismic Zone, *J. Geophys. Res. Solid Earth*, 124(7), 2019JB017831, doi:10.1029/2019JB017831.
- Perrin, C., F. Waldhauser, E. Choi, and C. H. Scholz (2019), Persistent fine-scale fault structure and rupture development: A new twist in the Parkfield, California, story, *Earth Planet. Sci. Lett.*, 521, 128138, doi:10.1016/j.epsl.2019.06.010.
- Tian, X., and E. Choi (2017), Effects of axially variable diking rates on faulting at slow spreading midocean ridges, *Earth Planet. Sci. Lett.*, 458, 14-21, doi:10.1016/j.epsl.2016.10.033.
- Logan, L. C., L. L. Lavier, E. Choi, E. Tan, and G. A. Catania (2016), Semi-brittle rheology and ice dynamics in DynEarthSol3D, *The Cryosphere*, 11, 117-132, doi:10.5194/tc-11-117-2017.
- Hong, T.-K., E. Choi, S. Park, and J. S. Shin (2016), Prediction of ground motion and dynamic stress change in Baekdusan (Changbaishan) volcano caused by a North Korean nuclear explosion, *Sci. Rep.*, 6, 21477, doi:10.1038/srep21477.
- Choi, E., and K. D. Petersen (2015). Making Coulomb angle-oriented shear bands in numerical tectonic models. *Tectonophysics*, 657, 94101. doi:10.1016/j.tecto.2015.06.026
- Wu, G., L. Lavier and E. Choi (2015). Modes of continental extension in a crustal wedge, *Earth Planet. Sci. Lett.*, 421, 89-97, doi:10.1016/j.epsl.2015.04.005.
- Ta, T., K. Choo, E. Tan, B. Jang and E. Choi (2015). Accelerating DynEarthSol3D on Tightly Coupled CPU-GPU Heterogeneous Processors, *Comp. & Geosci.*, 79, 27-37, doi:10.1016/j.cageo.2015.03.003.
- Feng, L., M. J. Bartholomew, E. Choi (2015). Spatial arrangement of dcollements as a control on development of thrust fault systems, *J. Struct. Geol*, 75, 49-59, doi:10.1016/j.jsg.2015.03.002.
- Choi, E., W. R. Buck, L. L. Lavier, and K. D. Petersen (2013), Using core complex geometry to constrain fault strength, *Geophys. Res. Lett.*, 40, doi:10.1002/grl.50732.
- Logan, L., Catania, G., Lavier, L., and Choi, E. (2013). A novel method for predicting fracture in floating ice. Journal of Glaciology, 59(216), 750758, doi:10.3189/2013JoG12J210.
- Choi, E., Tan, E., Lavier, L. L., and Calo, V. M. (2013). DynEarthSol2D: An efficient unstructured finite element method to study long-term tectonic deformation. Journal of Geophysical Research: Solid Earth, 116, doi:10.1002/jgrb.50148.
- Choi, E. and W. R. Buck (2012). Constraints on the Strength of Faults from the Geometry of Rider Blocks in Continental and Oceanic Core Complexes, *J. Geophys. Res.*, 117, B04410, doi:10.1029/2011JB008741.
- Choi, E., L. Seeber, M. S. Steckler, and R. Buck (2011). One-sided transform basins and inverted curtains: Implications for releasing bends along strike-slip faults, *Tectonics*, 30, TC6006, doi:10.1029/2011TC002943.
- Choi, E. and W. R. Buck (2010). Constraints on shallow mantle viscosity from morphology and deformation of fast-spreading ridges, *Geophys. Res. Lett.*, 37, L16302, doi:10.1029/2010GL043681.
- Choi, E. and M. Gurnis (2008). Thermally-induced brittle deformation in mid-ocean ridge systems, *Earth Planet. Sci. Lett.*, 269 (1-2), 259-270, doi:10.1016/j.epsl.2008.02.025.
- Choi, E., L. Lavier, and M. Gurnis (2008). Thermomechanics of the mid-ocean ridge segmentation, *Phys. Earth Planet. Int.*, 171, 374-386, doi:10.1016/j.pepi.2008.08.010.

- E. Tan, E. Choi, and others (2006). GeoFramework: Coupling multiple models of mantle convection within a computational framework, *Geochem. Geophys. Geosyst.*, 7, Q06001, doi:10.1029/2005GC001155.
- Choi, E. and M. Gurnis (2003). Deformation in transcurrent and extensional environments with widely spaced weak zones, *Geophys. Res. Lett.*, 30(2), 1076, doi:10.1029/2002GL016129.

TEACHING EXPERIENCE

- *Global Geophysics*: Undergraduate/graduate level course taught at U. of Memphis. http://www.ceri.memphis.edu/people/echoi2/ceri8211/.
- Computational Methods for Geodynamics: Graduate level course taught at U. of Memphis. http://www.ceri.memphis.edu/people/echoi2/ceri8315/.
- *Geodynamics*: Graduate level course at U. of Memphis. http://www.ceri.memphis.edu/people/echoi2/ceri8353/.
- Honors Forum: How the Earth Works through Hands-on Experiments: A course for freshman honors student. To be taught in Fall 2017.

STUDENT ADVISING

Chair of Graduate Student Committee

- Hee Choi, M.Sc., 2018-2019
- Arushi Saxena, Ph.D., 2016-present
- Hao Lu. Ph.D., 2016-present
- Xiaochuan Tian, M.Sc., 2014-2015
- Md. Sabber Ahamed, Ph.D., 2013-present

Undergraduate Mentoring

- Sungho Lee, Seoul National University. 2019.8.7 present
- Julia Schwartz, The University of Memphis. 2019.5 present
- Erika Storvick, William Jewell College. GLADE REU program, 2017.7-2017.8
- Hokyum Kim, Seoul National University. 2014.1-2015.1

RESEARCH GRANTS

- NSF EarthCube Workshop proposal: Analog Modeling of Tectonic Processes 2020, March 22-24, 2020
- SCEC Award 18095 The influence of rheology on post-seismic and interseismic deformation on rough faults (PI: Eric Daub), 2018-2019
- FedEx Institute of Technology Corps of Research Scientists grant *Development of Online Course for High Performance Computing Best Practices* (PI: Nathan de Yonker), 2018-2020
- NSF MGG Fully three-dimensional numerical models for along-axis variations in magmatic and tectonic processes at slow-spreading mid-ocean ridges (PI: Choi), 3/15/17-3/14/19.
- NSF Earth Cube Building Blocks: *Collaborative Proposal: GeoTrust: Improving Sharing and Reproducibility of Geoscience Applications* (PI: Malik), 10/01/16-9/30/18.

- NSF Earth Cube Earth System Bridge: Spanning Scientific Communities with Interoperable Modeling Frameworks (PI: Pecham), 9/17/13-9/16/16.
- NSF EAR 12-27083 Landslide dynamics from seismic wave inversion, satellite remote sensing, and numerical modeling (PI: Ekstrom, G.; CO-PI: Choi, E. and Stark, C.), 9/1/12-8/31/15.
- NSF EAR 09-11565 3D Models of Faulting during Oblique Continental Extension (PI: Buck, W. R.; CO-PI: Choi, E.), 7/1/09-6/30/12.

Computing Resource Allocations

- XSEDE Preliminary 3D Models for the Formation of Oceanic Core Complexes. TG-EAR150025 10/01/2017-09/30/2018.
- XSEDE Fully three-dimensional numerical models for along-axis variations in magmatic and tectonic processes at slow-spreading mid-ocean ridges. TG-OCE170013 02/01/2016-01/31/2017.
- TeraGrid (now XSEDE) Research Allocation, 1.7 million cpu-hours, 6/30/10-12/31/11.

CONFERENCE PRESENTATIONS AND INVITED TALKS

(*: invited)

Talks

- *2019 CIG Webinar series https://geodynamics.org/cig/events/webinars/, https://youtu.be/qRPV17Xx2aQ
- *Improving Reproducibility of Numerical Tectonic Models. Workshop on Analog Modeling of Tectonic Processes, Austin TX, May 17-19, 2017.
- *3D numerical models for variable modes of faulting along slow spreading mid-ocean ridges. Dept. of Earth Sciences, Texas A&M, Feb. 3, 2017.
- *Quantity make Quality: Advances enabled by HPC in Geodynamics. Dept. of Earth Sciences, Undergraduate and Graduate class, Texas A&M, Feb. 2, 2017.
- Effects of axially variable diking rates on faulting at slow spreading mid-ocean ridges. E. Choi and X. Tian. AGU Fall Meeting T32A-07, Dec. 12-16, 2016, San Francisco, CA.
- Coupled Flow and Geomechanical Study of Intraplate Seismicity in the New Madrid Seismic Zone. R. Asaithambi, B. Jha and E. Choi. AGU Fall Meeting T54B-07, Dec. 12-16, 2016, San Francisco, CA.
- *3D numerical models for variable modes of faulting along slow spreading mid-ocean ridges. Dept. Geology, Southern Illinois University, Nov. 3, 2016.
- *3D numerical models for variable modes of faulting along slow spreading mid-ocean ridges. Wednesday Luncheon Seminar, School of Earth and Environmental Sciences, Seoul National University, South Korea, June 8, 2016.
- *Along-axis variations in diking rates and faulting styles at slow-spreading mid-ocean ridges. Seminar series in the Department of Geological and Environmental Sciences, Chonnam National University, South Korea. June 1, 2016.
- *Strong ground motions and dynamic stress changes around Baekdu (Changbai) volcano induced by nuclear explosions. Department of Earth Sciences Colloquium, the University of Memphis, February 8, 2016.
- Strong ground motions and dynamic stress changes around Baekdu (Changbai) volcano induced by nuclear explosions by Choi et al., ES-SSA meeting September 6-7, 2015 in Memphis, TN.

- Magma explains low estimates of lithospheric strength based on flexure of ocean island loads by W. Roger Buck et al., EGU Annual Meeting 2015.
- Making SNAC, StGermain and Pyre interoperable through BMI at EarthCube workshop: Numerical Model Metadata for Solid Earth Sciences, April 30 - May 2, 2015. Portland State University, Portland, OR.
- *Quantity makes quality: Advances in geodynamics enabled by large-scale parallel computing. Guest lecture in an undergrad earth science class for the civil engineering department at Michigan State University. April 14, 2015.
- A new set of focal mechanisms and a geodynamic model for the Eastern Tennessee Seismic Zone by M. Cooley et al., GSA Southeastern Section 64th Annual Meeting (1920 March 2015) Paper No. 6-10, Chattanooga, TN.
- *Development of Core Complex Domes Due to Along-Axis Variation in Diking Buck, W. R., E. Choi and X. Tian. Abstract T53D-05 presented at 2014, Fall Meeting, AGU, San Francisco, CA, 15-19 December.
- Linking Tectonics and Surface Processes through SNAC-CHILD Coupling. CERI Colloquium, 2014.08.29.
- *DynEarthSol3D: An Unstructured-Mesh Finite Element Solver for Long-Term Tectonic Deformations Involving Strain Localization. 2014 CIG Crustal Deformation Modeling Workshop, Li Ka Shing Conference Center, Stanford University, June 23-27, 2014.
- *SNAC Clinic.
 CSDMS Annual Meeting 2014, Boulder, Colorado. May 20-22, 2014.
- *Fault strength and the formation of rider blocks and domes in continental and oceanic core complexes by W. Roger Buck and Eunseo Choi. Geophysical Research Abstracts, Vol. 16, EGU2014-13046, EGU General Assembly 2014, Vienna, Austria, April 27 May 02, 2014.
- *Constraining Normal Fault Strength Using Rider Blocks Dept. Earth and Env. Sci., Tulane Univ. Jan. 25, 2013.
- Bridging Surface and Tectonic Processes with SNAC and CHILD
 Frontiers in Computational Physics: Modeling the Earth System, Boulder, Colorado, 2012.12.20.
- Finite Element Analysis of Lithospheric Deformation: Introduction to DynEarthSol2D Frontiers in Computational Physics: Modeling the Earth System, Boulder, Colorado, 2012.12.19.
- *Constraining Normal Fault Strength with the Geometry of Rider Blocks
 CIG Workshop on Mantle and Lithospheric Dynamics, Davis, California, USA, 2012.07.30-08.01.
- *Bridging surface dynamics and tectonic modeling with SNAC CSDMS 2011 Annual Meeting: Impact of time and process scales, Boulder, Colorado, USA, 2011.10.28.
- Diking as an integral part of rifting process
 2011 SIAM Conference on Mathematical & Computational Issues in the Geosciences, Long Beah, CA,
 2011.3.24.
- Axial morphology and shallow mantle viscosity at fast-spreading ridges. 2. "Inverted Curtains": Why
 some continental transform basins are asymmetric?
 Geochemistry and Geodynamics Friday Seminar, Woods Hole Oceanographic Institute, 2010.10.8.
- *SNAC Tutorial.
 GLADE 2010: From grains to global tectonics, Scripps Institution of Oceanography, La Jolla, CA, 2010.07.29.
- A numerical approach to localized deformations in oceanic lithosphere.

 Joint MG&G and SG&T Seminar, Lamont-Doherty Earth Observatory, 2009.1.09.

Posters

- Evolution of lithospheric drip and its impact on the seismicity in the Central and Southeastern US, Arushi Saxena et al., Abstract T33C-0417 presented at 2018 AGU Fall Meeting, Washington D.C., 10-14 Dec 2018.
- *Sciunits: Reusable Research Objects*, Tanu Malik et al., Abstract N34B-10 presented at 2018 AGU Fall Meeting, Washington D.C., 10-14 Dec, 2018.
- Time-variable strength of axial lithosphere at slow-spreading ridges and the lifespan of oceanic core complexes, Hao Lu and Eunseo Choi, Abstract T33G-0498 presented at 2018 AGU Fall Meeting, Washington D.C., 10-14 Dec, 2018.
- Modeling interactions between plate-boundary forces and evolving resistance at mid-ocean ridges as the origin of non-uniform seafloor growth, Hee Choi et al., Abstract T33G-0495 presented at 2018 AGU Fall Meeting, Washington D.C., 10-14 Dec, 2018.
- Coupling long-term and short-term physics of an earthquake on complex fault, Khurram Aslam et al., Abstract T11F-0218 presented at 2018 AGU Fall Meeting, Washington D.C., 10-14 Dec, 2018.
- Modeling damage evolution of the near-fault region as a result of rupture on a geometrically complex fault. Khurram S. Aslam et al., Poster presented at Workshop on Modeling Earthquake Source Processes, October 8-10, 2018, Pasadena, CA.
- GeoTrust: A Integrated Workbench for Publishing, Sharing, and Reproducing Geoscience Applications. Tanu Malik et al., 2018 EarthCube All Hands Meeting, 6-8 June, 2018, Washington D.C.
- GeoTrust: Improving Sharing and Reproducibility of Geoscience Applications (geotrusthub.org). Tanu Malik et al., Poster presentation at Workshop on Coupling of Tectonic and Surface Processes. April 25-27, 2018, Boulder, CO. AGU
- *DI43A-0335 Modeling Submarine Lava Flow with ASPECT*. Erika Regan Storvick et al., presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- T33D-0749 Combined effects of along-axis and temporal variations in diking rates on faulting styles at slow spreading ridges. Hao Lu et al., presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- IN43A-0068 GeoTrust Hub: A Platform For Sharing And Reproducing Geoscience Applications. Tanu Malik et al., presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- T51A-0445 Effects of Pre-existing Structures on the Seismicity of the Charlevoix Seismic Zone. Oluwaseun Idowu Fadugba et al., presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- T54A-05 Stress concentration on Intraplate Seismicity: Numerical Modeling of Slab-released Fluids in the New Madrid Seismic Zone, Arushi Saxena et al., presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- T51D-0504 A bottom-driven mechanism for distributed faulting: Insights from the Gulf of California Rift, Patricia Persaud et al., presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- Paper No. 29-4 Possible causes of low velocity in the upper mantle benearth the Mississippi Embayment,
 Christine Powell et al., presented at GSA Annual Meeting in Seattle, Washington, USA, 2017. Geological Society of America Abstracts with Programs. Vol. 49, No. 6 doi:10.1130/abs/2017AM-305499.
- Enhancing Reproducibility of Geoscience Applications using GeoTrust. E. Choi, presented at 2017 Crustal Deformation Modeling Tutorial and Workshop, Monday, June 26 - Friday, June 30 Colorado School of Mines, Golden, Colorado
- Calving Geometry of Thwaites Glacier Linked to Semi-brittle Ice Dynamics. Liz C. Logan et al. AGU Fall Meeting P31A-2085, Dec. 12-16, 2016, San Francisco, CA.

- Oedometer test as a benchmark for geodynamic models involving strain-weakening plasticity. C. Lee and E. Choi. AGU Fall Meeting T23C-2952, Dec. 12-16, 2016, San Francisco, CA.
- Possible Triggering Of Volcanic Eruption In Baekdusan (Changbaishan) Volcano By A North Korea Underground Nuclear Explosion Test? T.-K. HONG et al. AOGS 13th Annual Meeting SE17-A008, July 31-Aug. 5, 2016, Beijing, China
- *Improved Thermo-Mechanical theory in long-term tectonic modeling*. Md. S. Ahamed and E. Choi. CIG All Hands Meeting, June 20-22, 2016, Davis, CA.
- Coupling long-term tectonic loading with short-term earthquake slip. Md. S. Ahamed and E. Choi. CIG All Hands Meeting, June 20-22, 2016, Davis, CA.
- 3D Numerical Models of the Effect of Diking on the Faulting Pattern at Incipient Continental Rifts and Steady-State Spreading Centers by X. Tian et al., AGU Fall Meeting 2015, T51E-2945.
- *Making Coulomb angle-oriented shear bands in numerical tectonic models* by E. Choi and K.D. Petersen, at the 14th International Workshop on Modeling of Mantle and Lithospheric Dynamics, Oleron, France, Aug. 31-Sep. 5, 2015.
- EarthCube Earth System Bridge: Spanning Scientific Communities with Interoperable Modeling Frameworks, Peckham, S., C. DeLuca, D. Gochis, J. Arrigo, A. Kelbert, E. Choi, R. Dunlap. Abstract IN31D-3754 presented at 2014, Fall Meeting, AGU, San Francisco, CA, 15-19 December.
- Linking Tectonics and Surface Processes through SNAC-CHILD Coupling: Preliminary Results Towards Interoperable Modeling Frameworks, Choi, E., A. Kelbert and S. Peckham. Abstract T33B-4683 presented at 2014, Fall Meeting, AGU, San Francisco, CA, 15-19 December.
- *Modes of continental extension in a lithospheric wedge*, Wu, G., L. Lavier and E. Choi. Abstract T13A-4613 presented at 2014, Fall Meeting, AGU, San Francisco, CA, 15-19 December.
- 3D Numerical Models for Along-axis Variations in Diking, Tian, X. and E. Choi. Abstract T43A-4708 presented at 2014, Fall Meeting, AGU, San Francisco, CA, 15-19 December.
- A New Set of Focal Mechanisms and a Geodynamic Model for the Eastern Tennessee Seismic Zone, Cooley, M., C. Powell, and E. Choi. Abstract T13B-4635 presented at 2014, Fall Meeting, AGU, San Francisco, CA, 15-19 December.
- *Incorporating elastic and plastic work rates into energy balance for long-term tectonic modeling*, Ahamed, Md S. and E. Choi. Abstract T41A-4592 presented at 2014, Fall Meeting, AGU, San Francisco, CA, 15-19 December.
- DynEarthSol3D: numerical studies of basal crevasses and calving blocks, Logan, E., L. Lavier, E. Choi, E. Tan, and G. Catania. Abstract C33A-0367 presented at 2014, Fall Meeting, AGU, San Francisco, CA, 15-19 December.
- DynEarthSol3D: An Efficient and Flexible Unstructured Finite Element Method to Study Long-Term Tectonic Deformation, E. Tan, E. Choi, L. Lavier and V. Calo, AOGS 11th Annual Meeting, Sapporo, Japan. July 28 August 1, 2014.
- *Incorporating elastic and plastic work rates into energy balance for long-term tectonic modeling*, Md. S. Ahamed and E. Choi. CIG Mantle and Lithospheric Dynamics Workshop, Joint with the Canadian Geophysical Union 2014, Banff, Canada, May 4-8, 2014.
- Modeling the evolution of a thrust system: a geological application of DynEarthSol2D, L. Feng, E. Choi, M. Bartholomew. CSDMS Annual Meeting 2014, Boulder, Colorado. May 20-22, 2014.
- DynEarthSol3D: An Efficient and Flexible Unstructured Finite Element Method to Study Long-Term Tectonic Deformation, E. Tan, E. Choi, L. Lavier and V. Calo. CIG-EarthScope Institute for Lithospheric Dynamics, Tempe, AZ. 2014. Feb. 3-4.

- Bounds on fault strength based on geometry of rider blocks, E. Choi, W. R. Buck, L. Lavier and K. D. Petersen, AGU Fall Meeting. San Francisco, CA, 2012.12.
- 3D Numerical Models for Faulting Patterns in Oblique Rifts, E. Choi and W. R. Buck, AGU Fall Meeting. San Francisco, CA, 2011.12.
- Landslide Rupture and Length-Depth Scaling, Stark, C. P., E. Choi, and M. Convertino, CSDMS 2011 Annual Meeting: Impact of time and process scales, Boulder, Colorado, USA, 2011.10.28-30.
- Evolution of Fault Populations in 2- and 3-Dimensions, E. Choi and W. R. Buck, AGU Fall Meeting. San Francisco, CA, 2010.12.
- 1. Asymmetric Basins at "Inverted Curtains" along Strike-Slip Faults, E. Choi and L. Seeber, GLADE 2010: From grains to global tectonics. Scripps Institution of Oceanography, La Jolla, CA, 2010.7.26-29.
- 3D Numerical Models for Continental and Oceanic Core Complexes, Choi, E. and W. R. Buck, AGU Chapman Conference on Detachments in Oceanic Lithosphere: Deformation, Magmatism, Fluid Flow, and Ecosystems. Agros, Cyprus, 2010.5.8-16.
- Can ridge axial deformations constrain mantle viscosity?, Choi, E. and W. R. Buck, Ridge2000 Integration and Synthesis Workshop: Developing a holistic view of oceanic spreading center processes. 2009.10.1-3, St. Louis, MO.
- Applications of Rate-Dependent Plasticity in Tectonic Modeling, Choi, E. and W. R. Buck, MAR-GINS Workshop: Rupturing Continental Lithosphere: Synthesis and New Perspectives. Charleston, SC, 2009.4.30-5.2.
- Thermally-induced Brittle Deformation in Oceanic Lithosphere and the Spacing of Fracture Zones, Choi, E. and M. Gurnis, AGU Fall Meeting. San Francisco, CA, 2007.12.
- Factors Controlling the Variations in the Mid-Ocean Ridge Segmentation, Choi, E., L. Lavier, and M. Gurnis, AGU Fall Meeting. San Francisco, CA, 2006.12.
- Coupling Codes through GeoFramework, Choi, E. et al., AGU Fall Meeting. San Francisco, CA, 2004.12.