

**Curriculum Vitae**

Masako Tominaga  
Assistant Professor

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**I EDUCATION I**

Ph.D., May 2009, Geological Oceanography, Department of Oceanography, Texas A&M University  
M.S., August 2005, Geological Oceanography, Department of Oceanography, Texas A&M University  
B.Eng., March 2002, Rock Mechanics and Petroleum Production Laboratory,  
Dept. Natural Resource and Environmental Engineering, Waseda Univ., Tokyo, Japan

**I PROFESSIONAL EXPERIENCE I**

2015.7.1-	Assistant Professor, Dept. Geology and Geophysics, Teas A&M University (Joint faculty (0%) at Dept. Oceanography)
2012.12.20- present	Adjunct Scientist, Dept. Geology and Geophysics, Woods Hole Oceanographic Institution
2012.8.1- 2015.6.30	Assistant Professor (tenure-track with 3 <sup>rd</sup> year reappointment granted) Dept. Geol. Sci., Michigan State University
2011.3.1- 2012.7.31	Postdoctoral Investigator, Dept. of Geology and Geophysics. Woods Hole Oceanographic Institution
2009.9.1-2011.2.28	Postdoctoral Scholar, Dept. of Geology and Geophysics, Woods Hole Oceanographic Institution
2010. 9.7-2010.12.31	Lecturer, Dept. of Earth and Environmental Geosciences, Boston College
2009.4.27-2009.7.27	Postdoctoral Research Associate, Dept. of Oceanography, Texas A&M University (sponsor: Mitch Lyle)
2003.1.1-2009.2.27	Graduate Research Assistant, Dept. of Oceanography, Texas A&M University (advisor: Will Sager)
2007. 2.16-2007.2.31	Part Time Scholar, Paleomagnetism Lab., JAMSTEC
2005. 7.1 -2005.8.31	Adjunct Trainee for IODP Expt. 309, JAMSTEC
2004.12.1 -2005.3.31	Adjunct Trainee for IODP Exp. 305, JAMSTEC*

\* JAMSTEC = Japan Agency for Marine-Earth Science and Technology

**I RESEARCH INTERESTS I**

Under the vision that *science pushes technology, and technology enables science*, the mission of my research team is to decipher “how things work” on this dynamic planet Earth by establishing and utilizing geophysical, quantitative, and computational methods in fields (kilometer scale) and laboratories (nanometer scale). Our current projects range from building monitoring schemes of in situ geomicrobiological processes and chemical exchange in different spheres (atmosphere, hydrosphere, lithosphere, and biosphere), particularly focusing on natural carbon sequestration processes, to advancing our knowledge about volcanism and magmatism that formed ocean basins, and to investigating one of the most fundamental physical properties that drive planetary processes: the nature and behavior of geomagnetic field over time. We contribute to advancing deep submergence and surface unmanned oceanographic vehicle capabilities into the deeper (6000+ m), long-range (3+ months duration), and remote (e.g. polar region) ocean basins.

**I RESEARCH FIELD ACTIVITIES I**

- 560+ days at sea. 2 Chief Scientist Cruises. Supervised 17 grad and undergrad students at sea.
- Worked on 9 different research vessels from three different countries.
- Worked with 11 different unmanned underwater vehicles from 4 different countries.

2017 (scheduled) R/V Revelle Early Career Scientist Seismic Chief Scientist Training Cruise (lead PI, Chief Scientist)

- 2016 R/V Armstrong SVC Leg4 (invited Science PI (Autonomous Underwater Vehicle) to evaluate AUV mode of WHOI's HROV-NUI while testing the science capability of the new NSF ship)
- 2016 Electrical Resistivity Tomography survey, Atlin Ophiolite, British Columbia (Chief expedition leader, project PI)
- 2016 Electrical Resistivity Tomography survey, Coastal Range Ophiolite Microbiology Observatory (CROMO), California (Chief expedition leader, project co-I)
- 2016 R/V Armstrong SVC Leg2 (invited geophysicist investigating continental shelf edge bathymetry and magnetic signatures while testing the science capability of the new NSF ship)
- 2016 Geophysical Survey, Coastal Range Ophiolite Microbiology Observatory (CROMO)(Chief expedition leader, project co-I)
- 2015 Geophysical Survey, Coastal Range Ophiolite Microbiology Observatory (CROMO)( Chief expedition leader, project co-I)
- 2014-2015 AUV Pacific Jurassic magnetics on R/V Sikuliaq (Chief Scientist)
- 2014 R/V Sikuliaq SVC Leg7 (invited AUV Sentry Science PI to verify the deep submergence operation capability of the new NSF ship)
- 2014 R/V Sikuliaq Science Verification Cruise (SVC) Leg5 (invited for testing the science capability of the new NSF ship)
- 2014 Liguria Ophiolite geophysical survey (Genova, Italy, field leader, geophysicist)
- 2013 ODEMAR (France) cruise Mid Atlantic Ridge 13°N, (ROV and AUV geomagnetist, invited)
- 2013 Geological and Geophysical Mapping of Linnjavri Ophiolite, Norway (field leader)
- 2012 NSF-ML1216 Juan de Fuca Middle Valley, Global Autonomous Magnetic Drifter deployment, R/V M. G. Langseth (Marine Geophysicist, Co-PI)
- 2011 NSF Hawaiian Jurassic Crust, R/V T. G. Thompson (11/04-12/17/2011, Chief Scientist)
- 2011 Geological and Geophysical Mapping of Linnjavri Ophiolite, Norway (field leader)
- 2011 IODP Expedition 335 Superfast Spreading Crust 4 (Physical Properties Specialist/USSSP)
- 2009 IODP Expedition 324 Shatsky Rise (Paleomagnetic Specialist/USSSP)
- 2008 NERC(UK)-JC21 Hess Deep Site Survey (ROV geomagnetist, invited)
- 2007 NSF-IODP Site Survey KNOX06RR: the Ninety East Ridge (Co-chief scientist)
- 2005 IODP Expedition 312, Superfast Spreading Crust 3 (Geophysicist/USSSP)
- 2005 IODP Expedition 309, Superfast Spreading Crust 2 (Physical properties specialist/JDESC)
- 2005 IODP Expedition 305, Atlantis Massif (Paleomagnetist/JDESC)
- 2004 Deep-tow seismic survey, the Sigsbee Escarpment, Gulf of Mexico (Geophysicist)
- 2003 Texas Parks and Wildlife Side Scan sonar Project 2002, Shallow water side-scan sonar environmental site survey in Galveston Bay (Field Assistant)
- 2002 NSF TN152 Deep-tow magnetic survey in the Pacific Jurassic Quiet Zone (Geophysicist)
- 2002 Earth Science field camp (NM, AZ, CA, and NV), Department of Science/School of Education, Waseda University (Student)
- 2000 Summer internship in oil sand field, Fort McMurray, Canada, JAPEX Canada / Canada Oil Sands Co. Ltd. (Student)

**I TEACHING I [numbers of students registered]**

- During tenure-track appointments

- 2016, 2017 Texas A&M GEOP666-600 Principle of Geodynamics [*6*<sub>(2016)</sub>, *6*<sub>(2017)</sub>]
- 2015-present Texas A&M GEOP491 Undergraduate Research [*1*<sub>(2015)</sub>, *4*<sub>(2016)</sub>]
- Texas A&M GEOL645 Geochronology (co-teaching with Dr. Brent Miller) [*13*<sub>(2016)</sub>, *7*<sub>(2017)</sub>]
- 2015, 2017 Texas A&M GEOP431-500 Near Surface Geophysics [*36*<sub>(2016)</sub>, *29*<sub>(2017)</sub>]
- 2014 Michigan State Univ. GLG892 Special Topic in Geophysics and Geodynamics ("Marine

- Geophysics and Geodynamics for Google/Wikipedia generation”) [6]  
 2014 Michigan State Univ. GLG471 Applied Geophysics [32]  
 2013-2015 Michigan State Univ. GLG301 Geology of the Great Lakes (change to “Geology of Continents and Oceans”, Intro Geology for Civil Engineering major students) [80-92]  
 2013 Michigan State Univ. GLG481 Petrophysics (guest lecturer in GLG481 Reservoir and Aquifer, Fall 2013)

- *During postdoc*

- 2011 MIT-Woods Hole Joint Program, Calculus for Engineers and Earth Scientists [10]  
 2010 Boston College Marine Geology (GE530) Fall 2010 – Lecturer, responsible for the entire semester, Department of Earth and Environmental Geosciences [8]  
 2009 Guest lecturer, Science 100 (Fall Semester 2009, broadcasted from onboard D/V JOIDES Resolution), the Division of Science and Mathematics, University of the Virgin Islands.  
 2009 Guest lecturer, Islands of Natural Hazard, Physical Geology 100 (Spring semester 2009), Salem State College, Massachusetts.

**I GRANTS and CONTRACTS I**

**<Funded>**

- 2017 [recommended for funding] Co-PI, Collaborative Research: Thin Crust Over the Marion Rise: Remelting the Gondwanan Mantle (PI: Henry Dick (WHOI))  
 2016 PI, Early Career Seismic Chief Scientists Training Cruise (co-PI, Anne Trehu and Mitch Lyle (OSU), and Greg Mountain (Rutgers))  
 2015 co-PI, Woods Hole Oceanographic Institution Green Innovative Technology Award: Observing Crustal Magnetic Anomalies in Remote Ocean Regions: Integration, Calibration and Validation of a Magnetometer on an Autonomous Underwater Glider. (PI: Brian Claus; co-PIs: James Kinsey, Maurice Tivey).  
 2015 PI, NSF-EAR-Geophysics, Collaborative Research: Establishing a Novel Geophysical Monitoring Scheme for Delineating In Situ Carbonation Processes in Ultramafic Complexes (co-PI, James Kinsey, Woods Hole Oceanographic Institution)  
 2015 Co-PI, NSF-OCE-MGG, How Did the “World’s Largest Single Volcano” Form at a Triple Junction? A Magnetic and Bathymetry Survey of Tamu Massif, Shatsky Rise (PI, William Sager, Univ. Houston).  
 2015 Co-I, NASA Astrobiology Institute Co-I, Rock-Powered Life: Revealing mechanisms of energy flow from the lithosphere to biosphere (PI, Alexis Templeton (Univ. Colorado), co-Is, Billy Brazelton (Univ. Utah), Carol Cleland, Lisa Mayhew, and Tom McCollom (Univ. Colorado), Dawn Cardace (Univ. Rhode Island), Eric Boyd (Montana State Univ.), Everett Shock (Arizona State Univ.), John Spear (Colorado Sch. Mine), Masako Tominaga (Texas A&M Univ.), Matt Schrenk (Michigan State Univ.), Shuhei Ono (MIT), Tori Hoehler (NASA)).  
 2013 PI, NSF-OCE: A High-Resolution Deep-AUV Magnetic Survey of the Hawaiian Jurassic Basin. (co-PI: M. Tivey (WHOI), Note: Tominaga was original PI. The PI status had to remain WHOI under Tivey after Tominaga moved to MSU because the OCE program could not change the proposal into “collaborative”).  
 2011 PI, IODP USSSP Post Expedition Award: IODP Expedition 335: Expedition 335 Superfast Spreading Rate Crust 4.  
 2011 PI, Woods Hole Oceanographic Institution Independent Study Award: Multi-scale Magnetic and Conductivity Mapping of a Carbonation Front: Toward the Development of an in situ Monitoring system for Geological CO<sub>2</sub> sequestration. (Co-PI: M. Tivey, 06/01/2011-05/31/2013) (\* Co-PI on the budget form due to the institutional PI-status rules).  
 2010 PI, NSF-OCE 1029965 Collaborative Research: A Deep-AUV Magnetic and Seismic Study of the Hawaiian Jurassic Crust—The Global Significance of Jurassic Magnetic Anomalies. (Co-PIs: M. Tivey, D. Lizarralde, W. Sager, and A. Oakley) (09/15/2010-08/31/2012)  
 2010 PI, Woods Hole Oceanographic Institution Green Innovative Technology Award: Developing Underwater Cosmic-Ray Muon Radiography – A Novel Application to Image the Inside of

- Active Submarine Volcanoes (Co-PIs: Karl von Reden (PI), Norm Farr, and Cliff Pontbriand) (12/01/2010-11/30/2011) (\* Co-PI on the budget form due to the institutional PI-status rules).
- 2010 Co-PI/named postdoc, NSF-OTIC 0961163: Collaborative Research: Developing Prototype Drifters to Measure the Geomagnetic Field in the Oceans. (PI: Maurice Tivey, Co-PIs: B. Owens, W. Sager) (07/01/2010-06/30/2013)
- 2010 Named Postdoc (M. Kurz (PI)), WHOI Independent Research Grants: Fluid Tracers in the Ocean Crust: New Noble Gas Studies from Ocean Drilling (06/01/2010-05/31/2012).
- 2010 PI, IODP USSSP Post Expedition Award: IODP Expedition 324: Shatsky Rise—Northwest Pacific Ocean/Downhole Log-Based Lithology and Magnetic Characterization of Holes U1347A, U1348A, and U1349A at the Shatsky Rise.
- 2006 PI, IODP USSSP Post Expedition Award: Core-Log Reorientation and Integration of Expedition 312 Samples: Foundation for Interdisciplinary Direction Study of Superfast Spreading Oceanic Crust IODP Expedition 312.

**<Other proposals pending>**

Lead Proponent, IODP-769-APL proposal (forwarded to JRFB): Revealing the in situ Crustal Architecture in DSDP/ODP Hole 504B(Co-Proponents: K. Becker, G. Wheat, Y. Harigane, and D. Teagle)

**I STUDENT RESEARCH ASSISTANTS/POSTDOC SUPERVISED I**

(+ chair, ++major graduate advisor/co-chair/project PI, \*grad and \*\*undergrad, “cruise participants”  
-During tenure-track appointments

- 2015-present \*\*+\*Estefania Ortiz (Undergrad. res. assistant, Dept. Geol. Geophys., Texas A&M Univ.)
- 2014-present +\*John Greene (PhD student, Dept. Geol. Geophys., Texas A&M Univ.)
- 2014-2017 +\*Tylor Ruchala (MS May 2017, Dept. Geol. Geophys., Texas A&M Univ.)
- 2015-2016 \*\*Max Chen (Undergrad. res. assistant, Dept. Geol. Geophys., Texas A&M Univ.)
- 2014-2016 +\*Matthew Karl (MS student, Dept. Geol. Sci., Michi. State Univ.)
- 2013-2015 ++\*Helen Feng (Ph.D dissertation committee, MIT-WHOI Joint Program)
- 2013-2014 \*Harrison Lisabeth (Ph.D dissertation committee, Dept. Geol. Geophys., Univ. Maryland)
- 2013-2015 +\*Timothy Stadler (MS student, Dept. Geol. Sci., Michi. State Univ.)
- 2012-2015 \*\*Laney Hart (Undergrad. res. assistant, Dept. Geol. Sci., Honors Coll., Michi. State Univ.)
- 2014 \*\*Cody Normington (TREET undergraduate participant, Dept. Phys, Michi. State Univ.)
- 2014 \*\*Carly Scott (TREET undergraduate participant, Dept. Geol. Sci., Michi. State Univ.)
- 2013-2014 Michael Chandler (Postdoctoral Research Associate, Dept. Geol. Sci., Michi. State Univ.)
- 2011-2013 \*Rachel Gipe (M.S thesis committee, Dept. of Earth & Atm. Sci., Purdue Univ.)
- 2012 \*\*Aiman Shahpurwala (Undergraduate res. assistant, Dept. Geol. Sci., Michigan State Univ.)

- During Postdoc

- 2012 \*Beatrice Parker (Geodynamics Seminar graduate student project supervisor, Deep Earth Exploration Institution, Woods Hole Oceanographic Institution)
- 2011
- 2011 \*\*Brendan Murphy (Summer Guest Student, Dept. Geology & Geophysics, Boston College, Woods Hole Oceanographic Institution)

**I OUTREACH I**

- During tenure-track appointments
- 2017 The 3-days Informational Webinars for NSF-UNOLS Early Career Scientist Training in Seismic Data Acquisition and Processing (organizer in collaboration with UNOLS office): <https://maplestominagalab.com/seismic-ecs-cruise-2017/>
- 2016 AGU blogpost “A tale of Atlin ophiolite” (<http://blogs.agu.org/geospace/2016/09/02/tale-atlin-ophiolite/>) in collaboration with Rebecca Fowler.
- 2015 Michigan Science Olympiad (Oceanography) organizer and examiner (in collaboration with Tim Stadler, M.S. candidate/supervisee)
- 2015 Global Awareness Festival 2015: Focus on Pacific Rim –“The Ring of Fire”

- Muskegon Community College, Michigan.
- 2014 Educator/Early Career Scientist Participant (no cost), NSF-INSPIRE-Transforming Remotely-conducted Research through Ethnography, Education, and rapidly evolving Technologies (PIs: Chris German (WHOI); Katy Bell (Ocean Exploration Trust); Amy Pallant (Concord Consortium); Sheila Jasanoff (Harvard Univ.); Kanna Rajan (the Monterey Bay Aquarium Research Institute)).
- 2013 “Salt Water Encounters” Sharper Focus/Wider Lens lecture series, Panelist, Honors College, Michigan State University.

*- During Postdoc*

- 2012 Judge for Science Fair, Falmouth High School, Falmouth, MA.
- 2011 PI of Jurassic Quiet Zone cruise outreach website with Kutztown Univ. undergraduates (<http://www.kutztown.edu/jocms2011/index.html>)
- 2011 Participant in IODP Exp.335 outreach program (American International School, Shanghai, China)
- 2010 Judge for the best student paper award, Ocean Science (OS21C), AGU Fall 2010 Meeting
- 2010 Judge for Science Fair, Lawrence School, Falmouth, MA.
- 2009 Participant in IODP Exp.324 outreach program (National Museum of Nature and Science, Tokyo)
- 2009 Lead proponent for the white paper to IODP-US Advisory Committee “Workshop to broaden the participation in IODP science and programs”
- 2009 Event Coordinator/Supervisor, “Compute This” (geological/environmental), Texas Science Olympiad, College Station, TX

*- During Ph.D program*

- 2009 Judge for 2009 International Sustainable World (Energy, Engineering, and Environment) Project Olympiad, Houston, TX
- 2008 Judge for Science Fair, Harmony Science Academy (K-12), Bryan, TX
- 2007 Participant in “Sea90E” (NSF-IODP JOI Learning, <http://www.joilearning.org/sea90e/>)

**I HONORS and AWARDS I**

- 2016 Popular Science Magazine Jan./Feb. 2017 printed issue “Deep Sea Six” – 1 full-page profile as a deep sea magnetics explorer (web version: <http://www.popsci.com/masako-tominaga-underwater-geophysicist>).
- 2010 AGU Editor’s Highlight “Tominaga, M., and W. W. Sager (2010), Origin of the smooth zone in early Cretaceous North Atlantic magnetic anomalies, *Geophys. Res. Lett.*, 37, L01304, doi:10.1029/2009GL040984” (<http://www.agu.org/cgi-bin/highlights/highlights.cgi?action=show&doi=10.1029/2009GL040984&jc=gl>)
- 2009 Distinguished Graduate Student Awards in Research, The Association of Former Students and the Office of Graduate Studies at Texas A&M University.
- 2008 Schlanger Ocean Drilling Fellowships (\$28,000 09/01/2007-08/31/2009)
- 2007 Outstanding Student Paper Award, AGU Fall 2007 Meeting
- 2005 Geosciences Graduate Excellence Scholarship, College of Geoscience, Texas A&M University
- 2002 College of Geoscience GERAC Fellowship, Texas A&M University.

**I Colloquia I**

- 2016 Tominaga, M., The Origin of the Jurassic Magnetic Quiet Zone and the evolution of deep submergence magnetometry, New Mexico State University.  
Tominaga, M., The Origin of the Jurassic Magnetic Quiet Zone and the evolution of deep submergence magnetometry, Univ. Texas Institute of Geophysics.
- 2014 Tominaga, M., Unraveling the not-so-quiet nature of the Jurassic magnetic Quiet Zone, Dept. Earth and Atmospheric Science, Univ. Houston.  
Tominaga, M., Frontier of multiscale geophysics – from lithosphere dynamics to carbon sequestration, Univ. Rhode Island.  
Tominaga, M., Frontier of multiscale geophysics – from lithosphere dynamics to carbon

- sequestration, College of Geosciences, Texas A&M University.
- Tominaga, M., The frontier of near-source magnetic mapping survey for in situ geological processes, Tenth Santa Fe Conference on Rock Magnetism, Santa Fe, NM.
- Tominaga, M., Documenting magmatic processes that formed the submarine super volcano, Shatsky Rise in the northwestern Pacific, Univ. Memphis, TN.
- 2013 Tominaga, M., Revealing the nature of the Jurassic Magnetic Quiet Zone: New insights from the 2011 seasurface, mid-water tow, and the AUV Sentry high-res magnetic mapping (, and a prospectus for the upcoming 2014 expedition), Univ. South Carolina.
- 2012 Tominaga, M., The cutting edge of underwater marine geophysical research, Department of Geology, Bowling Green State University.
- Tominaga, M., The cutting edge of underwater marine geophysics—potential applications for lake research, Large Lake Observatory, Dept. of Geo. Sci., Univ. Minnesota, Duluth.
- Tominaga, M., The cutting edge of underwater marine geophysics: new insights from the (very) recent AUV magnetic survey in the western Pacific Jurassic ocean basin and potential application for lake research, Department of Geosciences, University of Wisconsin, Milwaukee.
- Tominaga, M., M. Tivey, D. Lizzaralde, W. Sager, and A. Oakley, Jurassic Magnetic “NOT-” Quiet Zone? –preliminary (AUV) magnetic survey results from the (very) recent cruise in the Western Pacific, Institute de Physique du Globe de Paris.
- 2011 Tominaga, M., The formation and evolution of oceanic lithosphere, Department of Geological Sciences, Michigan State University.
- Tominaga, M., Marine Geology, Department of Physical Sciences, Kutztown University of Pennsylvania.
- Tominaga, M., When we star at wiggles, what are we really looking at? Recent near-bottom magnetic results from the Hess Deep, Department Seminar, Lamont-Doherty Earth Observatory.
- 2009 Morris, T., and M. Tominaga, Advances in core-log correlation using Formation MicroScanner imagery: core reorientation (by Morris) and lithostratigraphy (by Tominaga) in hard-rock IODP drill holes, Melting, Magma, Fluids and Life– Challenges for the next generation of scientific ocean drilling into the oceanic lithosphere, Southampton, UK.
- 2006 Tominaga, M., W. W. Sager, M. A. Tivey, and S. Lee, Magnetic Anomaly Analyses and its Implications about the Pacific Jurassic Quiet Zone, Geological Oceanography Seminar, Graduate School of Oceanography, University of Rhode Island.
- 2004 Tominaga, M., W. W. Sager, M. A. Tivey, and S. Lee, Deep-tow magnetic analyses of the Pacific Jurassic Quiet Zone, Friday Seminar, Institute for Frontier Research on Earth Evolution, Japan Agency for Marine-Earth Science and Technology.

## I SERVICE I

### External

*(including two NSF Proposal panels – for the confidentiality, programs and timing are not indicated.)*

- 2017 IDEA\* Science Community Committee (\* Interdisciplinary Earth Data Alliance, NSF/Columbia University)
- 2016 NSF-OCE Facility R2R (“Rolling deck to Repository”) Advisory Committee
- 2015-present UNOLS\* Council member (\*University-National Oceanographic Laboratory System)
- 2014 Co-convener “Marine magnetics, plate kinematics and the oceanic crust” (GP22A/23A), AGU fall meeting 2014, San Francisco.
- 2012 NSF-OCE-MGG R2R (“Rolling deck to Repository”) Advisory Committee
- English Interpreter for Prof. Walter Munk (Scripps Ocean. Inst.) “Frontiers in Ocean and Earth Science” Symposium, Univ. Tokyo.
- 2010-2013 Science Technology Panel (Phys. Prop., Geophysics), Integrated Ocean Drilling Program
- 2010 Report writing committee: IODP Mohole Workshop, Kanazawa, Japan
- 2009 Steering committee and mentor for OceanLeadership-IODP “IODP Primer: An Introduction to

- Ocean Drilling Programs”, San Francisco, CA.  
 2009 Co-convener for Geomagnetism and Paleomagnetism general session (GP01), AGU fall meeting 2009, San Francisco.

**Internal**

- 2016-present College of Geoscience, Big Data Full Professor search committee (Texas A&M Univ.)  
 2015-present Halbouty Chair committee (Dept. Geology and Geophysics, Texas A&M Univ.)  
 2015-present UNOLS Ship committee (Dept. Oceanography, Texas A&M Univ.)  
 2015 Department chair review committee (Dept. Geol. Sci., Michi. State Univ.)  
 2013-present Solid Earth Endowed Professor Search Committee (Dept. Geol. Sci., Michi. State Univ.)  
 2013-present Undergraduate Affairs Committee, Dept. Geological Sciences, Michi. State Univ.  
 2012 Vogel Solid Earth Chair Search Committee (Dept. Geol. Sci., Michigan State Univ.)  
 2009-2010 Vice Chair and Department representative (Dept. of Geology and Geophysics),  
 Postdoctoral Association, Woods Hole Oceanographic Institution  
 2006-2007 Geological Oceanography Section Representative, Oceanography Graduate Council,  
 Department of Oceanography, Texas A&M University  
 2005 Graduate student representative, Ocean Drilling and Sustainable Earth Science  
 (ODASES) faculty search committee, College of Geoscience, Texas A&M University.  
 2004-2005 Geological Oceanography Section Representative, Oceanography Graduate Council,  
 Department of Oceanography, Texas A&M University

**Review**

National Science Foundation (OCE/MGG), Earth and Planetary Science Letters, Geochemistry  
 Geophysics Geosystems, Geophysical Research Letters, Geology, Scientific Drilling

**I WORKSHOP PARTICIPATION I (\*session chair)**

- 2016 - \*NSF-Deep Submergence Science Committee (DESCEND2) workshop, Harvard, MA.  
 2015 - Caribbean and Atlantic Studies Conference, Bryan, TX.  
 - IODP Slow Spreading Mohole drilling workshop, Woods Hole, MA.  
 - \*IODP Cascadia Drilling planning workshop, Seattle, WA.  
 2013 - Polenet, Ohio State Univ., OH.  
 - \*EarthCube, Providence, RI.  
 - Chikyu+10 International Workshop, Tokyo, Japan.  
 2012 - ICDP Oman Drilling Planning Workshop, Palisades, NY.  
 - High-energy physics, muon and neutrino Radiography Workshop, Clermont-Ferrand, France.  
 2011 - High-energy Geophysics Workshop, Tokyo, Japan.  
 - Geological Carbon Capture & Storage in Mafic and Ultramafic Rocks, Muscat, Sult. of Oman.  
 2010 - Reaching the Mantle Frontier: Moho and Beyond, Carnegie Inst., Washington D.C.  
 - IODP Mohole Workshop, Kanazawa, Japan.  
 - AGU Chapman Conference on detachments in oceanic lithosphere: Deformation magmatism,  
 fluid flow, and ecosystems, Agros, Cyprus.  
 - National Postdoctoral Association, 8<sup>th</sup> Annual Meeting, Philadelphia, PA.  
 - National Summit on Gender and the Postdoctorate, Philadelphia, PA.  
 2009 - USSSP: Scientific Ocean Drilling of Mid-Ocean Ridge and Ridge-Flank Settings (UT, Austin).  
 - InterRidge Workshop: Melting, Magma, Fluids and Life: Workshop for Scientific Ocean  
 Drilling (Southampton, UK).  
 - International Continental Drilling Project-workshop on the Colorado Plateau Coring Project,  
 Albuquerque, New Mexico.  
 - InterRidge Deep-Sea Mining of Seafloor Massive Sulfides: A Reality for Science and Society in  
 the 21st Century (Woods Hole, MA).  
 - Marine Geoscience Leadership Symposium (Consortium for OceanLeadership, D.C.).  
 2008 - GSA short course: Fundamentals of seismic structural analysis and hydrocarbon analysis for  
 graduate students, Houston, TX.  
 - Ridge2000 Community Meeting, Portland, OR.



2006 -IODP-Mission Moho Workshop, Portland, Oregon.

## I MEMBERSHIP I

American Geophysical Union

## I PUBLICATIONS I (\* graduate and \*\* undergraduate students supervised)

### In Preparation

Feng\*, H., M. Tominaga, D. Lizarralde, J. A. Greene\*, M. A. Tivey, and S. Swift, “Extent and impact of Cretaceous magmatism on the evolution of Jurassic-age oceanic crust in the western Pacific”, in prep., G3.

### Submitted

\*Greene, J. A., M. Tominaga, N. G. Miller, D. R. Hutchinson, and M. R. Karl\*, Refining the Formation and Early Evolution of the Eastern North American margin (ENAM): New Insights from Multiscale Magnetic Anomaly Analyses, *under review*, JGR.

### In Revision

\*\*Ortiz, E., M. Tominaga, D. Cardace, M. O. Schrenk, T. M. Hoehler, and M. D. Kubo, Geophysical Characterization of Serpentinite Hosted Hydrogeology in Coast Range Ophiolite in the McLaughlin Natural Reserve, *under review*. G3.

Tominaga, M., A. Beinlich, E. A. Lima, B. Hampton, M. A. Tivey, B. Weiss, and Y. Harigane, Multi-scale magnetic mapping of serpentinite carbonation, *submitted*, *Nature Comm.*

### Published (peer-reviewed)

(\*supervised graduate student, \*\*supervised undergraduate student)

30. Escartin, J., C. Mével, S. Petersen, D. Bonnemains, M. Cannat, M. Andreani, N. Augustin, A. Bezo, V. Chavagnac, Y. Choi, M. Godard, K. Haaga, C. Hamelin, B. Ildefonse, J. Jamieson, B. John, T. Leleu, C. J. MacLeod, M. Massot-Campos, P. Nomikou, J. A. Olive, M. Paquet, C. Rommevaux, M. Rothenbeck, A. Steinfuhrer, M. Tominaga, L. Triebe, R. Garcia, R. Campos, 2017, Tectonic structure, evolution, and the nature of oceanic core complexes and their detachment fault zones (13° 20'N and 13° 30'N, Mid Atlantic Ridge), *accepted*. G3.
29. Miller, H., J. M. Matter, P. Kelemen, E. T. Ellison, M. E. Conrad, N. Fierer, \*\*T. Ruchala, M. Tominaga, and A. S. Templeton, 2016, Reply to Methane origin in the Samail ophiolite by Etiope 2016, *Geochim. Cosmochim. Acta.*, doi:10.1016/j.gca.2016.11.011.
28. Tominaga, M., M. A. Tivey, C. J. MacLeod, C. J. Lissenberg, A. Morris, D. J. Shillington, and V. Ferrini, 2016, Characterization of the in situ magnetic architecture of oceanic crust (Hess Deep) using near-source vector magnetic data, doi:10.1002/2015JB012783.
27. Escartín, J., F. Leclerc, M. Catherine, C. Mathilde, S. Petersen, N. Augustin, N. Feuillet, D. Christine, A. Bezos, D. Bonnemains, V. Chavagnac, Y. Choi, M. Godard, K. A. Haaga, C. Hamelin, B. Ildefonse, T. Leleu, J. Jamieson, B. E. John, C. J. MacLeod, M. M. Campos, P. Noumikou;, J.-A. Olive, M. Paquet, C. Rommevaux-Jestin, M. Rothenbeck, A. Steinfürer, M. Tominaga, L. Triebe, R. Campos, N. Gracias, N. Gracias, R. Garcia, and M. Andreani, First direct observation of coseismic slip and seafloor rupture along a submarine normal fault and implications for fault slip history, *Earth Sci. Planet Lett.*, 450, 96-107.
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