MICHAEL H. TAYLOR
Curriculum Vitae
Spring, 2020

Personal Information

Professor
Department of Geology
University of Kansas
1475 Jayhawk Boulevard
114 Lindley Hall
Lawrence, KS 66045

Email Address: mht@ku.edu

Education

Ph.D., Geology, 2004
University of California, Los Angeles
Advisor: An Yin

M.S., Geology, 2000
University of California, Los Angeles

B.S., Geology, 1996
University of North Carolina, Wilmington

Professional Appointments

2020 -21	Panelist, NSF
2017 -	Professor
2011-17	Associate Professor, University of Kansas
2012-13	Visiting Associate Professor, Earthquake Research Institute, University of Tokyo
2005-11	Assistant Professor, University of Kansas
2004-05	Postdoctoral Scholar, California Institute of Technology
1998-04	GRA/GTA, University of California, Los Angeles
1996-98	Geophysicist, United States Geological Survey, Woods Hole, MA

Professional Memberships

American Geophysical Union
Geological Society of America

Research Key Words

Geometry, kinematics, and earthquake potential for active fault systems; Mechanics of continental deformation with emphasis on the Himalaya, Tibet, Anatolia, and the Andes

Individual Honors/Awards

Fellow, Geological Society of America

Jan and Mary van Zandt Award, KU Geology 2019

Award of Excellence "Top 10 Oral Presentation", American Association of Petroleum Geologists, 2014

Faculty Career Development Award, 2013

Jan and Mary van Zandt Award, KU Geology, 2013

Leading Light Award (2013, for grants > 1M)

Faculty Career Development Award, University of Kansas, 2010

BIG 12 Faculty Fellowship with UT-Austin, 2009

Faculty Career Development Award, University of Kansas, 2006

California Institute of Technology, Postdoctoral Fellowship, 2004

Outstanding Student Paper Award, AGU Tectonophysics, 2001

Research Funding/Fellowships

University of Kansas

Externally-Funded Grant/Contract

Funded

Taylor, M. (Principal). *Collaborative Research: Dry Rifting In the Albertine-Rhino graben (DRIAR), Uganda.* National Science Foundation-FRES Program, $417,135 (KU portion, ~$3M total), Awarded, July, 2020

Taylor, M. (Principal). *Topographic Development of the Southern Gangdese Range, Tibet: Birth of the Yarlung River and the Internally Drained Tibetan Plateau*. National Science Foundation-Tectonics Program, $225,135 (~$750,000 total), Sept. 2019 – Oct. 2022.

Taylor, M. (Principal), Elaina Sutley (Co-Principal), Richard Styron (Co-Principal). *Collaborative Research: Filling in the Western Himalayan Seismic Gap: A Structural, Neotectonic, and Paleoseismic Investigation of the Western Nepal Fault System*. National Science Foundation-Tectonics Program, $335,124 (KU portion, ~$750,000 total), (September 1, 2018 - September 30, 2021).

Beard, C. (Co-Principal), & Michael Taylor. (Co-Principal). *INSPIRE: Forging new connections among mammalian evolution, climate change, and tectonics during the Eocene*. NSF-INSPIRE $580,965, (June 1, 2015 - May 31, 2020).

Watney, L. (Co-Principal), Rush, J. (Co-Principal), Taylor, M. H. (Co-Principal), & Birdie, T. (Co-Principal). *Small Scale Field Test Demonstrating CO2 Sequestration in Arbuckle Saline Aquifer and by CO2-EOR at Wellington Field, Sumner County, Kansas*. Department of Energy $11,484,499 (January 1, 2012 - December 31, 2015).

Taylor, M. H. (Principal). *Using TCN for burial dating recent sediments*. Ecopetrol-ICP Contract $30,000, (October 2013 - January 2014).

Taylor, M. H. (Principal). *Collaborative Research: Geological Investigations of Non-Andersonian Conjugate Strike-slip Faults in Central Tibet*. NSF-Tectonics $136,097 (2009 - 2011).

Taylor, M. H. (Principal). *Terrestrial Laser Scanning of the El Mayor-Cucupah Surface Rupture*. NSF-SCEC $22,000 (February 1, 2011).

Taylor, M. H. (Co-Principal). *Low-temperature thermochronological and neotectonic constraints from the Middle Magdalena Valley, Llanos basin, and Eastern Cordillera of Colombia (Phase 3)*. Ecopetrol-ICP Contract $616,635 (2010).

Taylor, M. H. (Principal). *Structural Geology 2D, 3D, and 4D software*. Midland Valley $250,000 (2009 - 2010).
Software totaling over $250,000 in licenses

Taylor, M. H. (Co-Principal). *Low-temperature thermochronological and neotectonic constraints from the Middle Magdalena Valley, Llanos basin, and Eastern Cordillera of Colombia, Phase 2*. Ecopetrol-ICP $817,476 (August 2009 - August 2010).

Taylor, M. H. (Principal). *Collaborative Research: Development of extensional systems in regions of hot, thick crust: Insight from Tibet*. NSF-Tectonics $154,019 (August 2008 - August 2010).

Taylor, M. H. (Principal). *Rapidly quantifying surface rupture for the Laguna Salada Earthquake, Mexico using terrestrial lidar*. NSF-SCEC $5,729 (April 12, 2010)

Taylor, M. H. (Principal). *Investigating active extensional basins in the hinterlands of continental collisions: Implications for petroleum research*. American Chemical Society, Petroleum Research Fund $50,000 (January 1, 2008 - January 31, 2010).

Taylor, M. H. (Co-Principal). *Low-temperature thermochronological and neotectonic constraints from the Middle Magdalena Valley, Llanos basin, and Eastern Cordillera of Colombia*. Ecopetrol-ICP Contract $110,000 (August 2008 - August 2009).
KU portion

Taylor, M. H. (Principal). *Determining the current slip rate on an active metamorphic core-complex in western Tibet using Synthetic Aperture Radar Interferometry: New Insight into East–West Extension of the Tibetan Plateau*. European Space Agency $48,000 (April 1, 2007 - March 31, 2008).
$48,000 in radar data.

Proposal Submitted

General Research Fund

Funded

Taylor, M. H. (Principal). *Neotectonic development of active petroleum basins in the Colombian Andes*. KU General Research Fund $8,000 (February 2013).

Taylor, M. H. (Principal). *Investigating Active Deformation in The High Himalaya of Nepal*. KU General Research Fund Grant $8,000 (June 1, 2010 - May 31, 2011).

Taylor, M. H. (Principal). *Documenting a new style of extension in regions of hot and overthickened crust: insights from Tibet*. KU General Research Fund Grant $8,000 (June 1, 2007 - May 31, 2008).

Internal Award

Funded

Taylor, M. H. (Principal). *Quantifying Surface Subsidence along U.S. Highway 50, Brandy Lake, KS using Remote Sensing, Geomorphology and Seismic Methods: Implications for Sinkhole Development and Risk Assessment along Rapidly Developing Urban Corridors*. KU-Transportation Research Institute $48,400 (August 7, 2009 - August 15, 2009).
Refereed.

Publications

Book Chapters

Teson, E., Mora, A., Silva, A., Namson, J., Teixell, A., Castellanos, J., Cassellos, A., Julivert, M., **Taylor, M**., & Ibanez-Mejia, M. (2013). Relationship of Mesozoic graben development, stress, shortening magnitude, and structural style in the Eastern Cordillera of the Colombian Andes. In *Geological Society of London Special Publications*. (Invited)

Taylor, M., Kapp, P., & Horton, B. (2012). Basin response to active extension and strike-slip deformation in the hinterland of the Tibetan plateau. In C. Busby & A. Azor, *Tectonics of Sedimentary Basins, Recent Advances*. Wiley-Blackwell.
Published Online: 1/30/2012

Journal Articles (Published, in review, in press, *student)

Taylor, M., Laskowski, A., Forte, A.. (2019). *Topographic Development of the Southern Gangdese Range, Tibet: Birth of the Internally Drained Tibetan Plateau*. To review with *GSA Today*.

M. A. Mueller, A. Licht, *C. Campbell, F. Ocakoğlu, **M. Taylor,** L. Burch, T. Ugrai, M. Kaya, B. Kurtoğlu, P. Coster, G. Métais, and K. C. Beard (2019), Collision chronology along the Izmir-Ankara-Erzincan suture zone: Insights from the Sarıcakaya Basin, western Anatolia, In press, *Tectonics*

*Campbell, C., **Taylor, M.,** Licht, A., Okaglau, F., Metais, G., & Bear, K. C. (in review, 2019). Tectonic Evolution of the Izmir Ankara Suture zone in northwest Turkey using zircon U-Pb Geochronology and Zircon Lu-Hf isotopic tracers. *Geology, To Review*..

C. Wu, X. Tian, T. Xu, X. Liang, Y. Chen, **M. Taylor**, J. Badal, Z. Bai, Y. Duan, G. Yu, J. Teng, (2019) Deformation of crust and upper mantle in central Tibet caused by the northward subduction and slab tearing of Indian lithosphere: new evidence based on shear wave splitting measurements, *Earth and Planetary Science Letters,* 514, 75-83

Matte, G., Beard, C., Coster, P., Kappelman, J., Licht, A., Ocakoğluf, F., & **Taylor, M**. (2018). Middle Eocene marsupials from central Anatolia illuminate the assembly of an island fauna during Deep Time. *PLOS-1*.

M.F. Jones, P. Coster, A. Licht, G. Métais, F. Ocakoğlu, **M.Taylor** & K.C. Beard. (2018) A stem bat (Chiroptera: Palaeochiropterygidae) from the late middle Eocene of northern Anatolia: Implications for the dispersal and paleobiology of early bats. *Palaeobiodiversity and Palaeoenvironments*.

Cannon, M., Murphy, M., & **Taylor, M**. (2018). Himalayan arc expressed in channel steepness, mega-thrust geometry, and great earthquake recurrence. *Geosphere*.

Licht, A., Coster, P., *Campbell, C., Metais, G., **Taylor, M**., & Beard, C. (2017). Tectono-stratigraphy of the Orhaniye Basin, Turkey: Implications for collision chronology and Paleogene biogeography of central Anatolia. *Journal of Asian Earth Sciences, 143*.

*Schwab, D., Bidgoli, T., & **Taylor, M**. (2017). Characterizing the potential for injection-induced fault reactivation through subsurface structural mapping and stress field analysis, Wellington Field, Sumner County, Kansas. *Journal of Geophysical Research*. doi:10:1002/2017JB014071

Taylor, M. H. (2016). Tectonics: Tales of Himalayan topography. *Nature Geoscience*. doi:10.1038/ngeo2805 (Invited)

*Silver, C., Murphy, M., **Taylor, M.,** Gosse, J., & Baltz, T. (2016). Neotectonics of the Western Nepal Fault System: Implications for Himalayan strain-partitioning. *Tectonics,* (34). doi:doi:10.1002/2014TC003730

*Veloza, G., **Taylor, M**., Mora, A., & Gosse, J. (2015). Active mountain building along the eastern Colombian Sub-Andes: A folding history from fluvial terraces across the Tame anticline, Llanos basin. *GSA Bulletin*. doi:doi: 10.1130/B31168.1

*Styron, R., **Taylor, M**.., & *Sundell, K. (2015). Accelerated extension of Tibet linked to the northward underthrusting of Indian crust. *Nature Geoscience, 8*. doi:DOI: 10.1038/NGEO2336

*McCallister, A., **Taylor, M**., Murphy, M., *Styron, R., & Stockli, D. (2014). Thermochronologic constraints on the late Cenozoic exhumation history of the Gurla Mandhata metamorphic core complex, Southwestern Tibet. *Tectonics*.

Murphy, M., **Taylor, M**., *Silver, C., Gosse, J., Whipp, D., & Beaumont, C. (2014). Limit of strain partitioning in the Himalaya marked by large earthquakes in western Nepal. *Nature Geoscience*. doi:doi:10.1038/ngeo2017

Gold, P., Oskin, M., Elliott, A., Corona, A., **Taylor, M**., Krevlos, O., & Cowgill, E. (2013). Assessment of uncertainties in coseismic slip variation from terrestrial lidar scans of the El Mayor-Cucupah surface rupture. *Earth and Planetary Science Letters, 366*, 151-162.

*Styron, R. H., **Taylor, M. H**., *Sundell, K. E., Stockli, D. F., Oalmann, J. A., Möller, A., *McCallister, A. T., Liu, D., & Ding, L. (2013). Miocene initiation and acceleration of extension in the South Lunggar rift, western Tibet: Evolution of an active detachment system from structural mapping and (U-Th)/He thermochronology. *Tectonics, 32*(4), 880–907.

*Sundell, K., **Taylor, M**., Stockli, D., Kapp, P., *Styron, R., & Lin, D. (2013). Evidence for constriction and Pliocene acceleration of east-west extension in the North Lunggar rift region of west central Tibet. *Tectonics, 32*, 1454-1479. doi:10.1002/tect.20086

*Veloza, G., *Styron, R., **Taylor, M**., & Mora, A. (2013). Reply to Comment by L. Audin et al., Open source archive of active faults for northwest South America. *GSA Today, 22*(10). doi:10.1130/GSAT-G156A.1

*Veloza, G., *Styron, R., **Taylor, M**., & Mora, A. (2012). Open-source archive of active faults for northwest South America. *GSA Today, 22*(10).

Yin, A., & **Taylor, M**. (2011). A paired-simple-shear-zone model for the formation of conjugate strike-slip faults: An alternative to the classic Anderson fault theory. *GSA Bulletin, 123*(9/10),

1798-1821. doi:10.1130/B30159.1

*Styron, R., **Taylor, M**., & Murphy, M. (2011). Oblique Convergence, Arc Parallel Extension, and Strike-Slip faulting in the High Himalaya. *Geosphere, 7*(2), 1-15. doi:10.1130/GES00606.1

Murphy, M., Sanchez, V., & **Taylor, M**. (2010). Syncollisional extension along the India-Asia suture zone, south-central Tibet: Implications for crustal deformation of Tibet. *Earth and Planetary Science Letters, 290*, 233-243. doi:10.1016/j.epsl.2009.11.046

*Styron, R., **Taylor, M**., & *Okoronkwo, K. (2010). Database of Active Structures from the Indo-Asian Collision. *EOS, 91*(20), 181. Lead science article.

Mériaux, A.-S., Sieh, K., Finkel, R. C., Rubin, C. M., **Taylor, M. H**., Meltzner, J., & Ryerson, F. J. (2009). Kinematic behavior of southern Alaska constrained by westward decreasing postglacial slip rates on the the Denali fault, Alaska. *Journal of Geophysical Research, 114*, B03404. doi:10.1029/2007JB005053

Taylor, M., & Yin, A. (2009). Active Structures on the Tibetan Plateau and Surrounding Regions: Relationships with Earthquakes, Contemporary Strain, and Late Cenozoic Volcanism. *GEOSPHERE, 5*, 199-214.

Kapp, P., **Taylor, M**., Stockli, D., & Lin, D. (2008). Active development of low-angle normal fault systems during orogenic collapse: Insight from Tibet. *Geology, 36*(1), 7-10. doi:10.1130/G24054A.1

Taylor, M., LePrince, S., & Avouac, J. (2008). Detecting Co-seismic Displacements in Glaciated Regions: An Example from the Great November 2002 Denali Earthquake using SPOT Horizontal Offsets. *Earth and Planetary Science Letters*. doi:10.1016/j.epsl.2008.03.028

Taylor, M., & Peltzer, G. (2006). Current slip rates of conjugate strike slip faults in central Tibet using Synthetic Aperture Radar Interferometry. *Journal of Geophysical Research, 111*, B12402. doi:10.1029/2005JB004014

Taylor, M., A. Yin, F. J. Ryerson, P. Kapp, and L. Ding, (2003), Conjugate strike-slip faulting along the Bangong-Nujiang suture zone accommodates coeval east-west extension and north-south shortening in the interior of the Tibetan Plateau, *Tectonics*, *22*(4), 1044, doi:10.1029/2002TC001361.

Kapp, P., A. Yin, C. E. Manning, T. M. Harrison, **M. H. Taylor**, and L. Ding, (2003), Tectonic evolution of the early Mesozoic blueschist-bearing Qiangtang metamorphic belt, central Tibet, *Tectonics*, *22*(4), 1043, doi:10.1029/2002TC001383.

ten Brink, U.S. and **M.H. Taylor,** (2002), Crustal structure of Central Lake Baikal: Insight into intracontinental rifting. *Journal of Geophysical Research.* 10.1029/2001JB000300

Dillon, W.P., Nealon, J., **Taylor, M**.,Lee, M., Drury, R. , and Anton, C., (2000). Seafloor collapse and methane venting associated with gas hydrate on the Blake Ridge -- causes and implications to seafloor stability and climate. American Geophysical Union Monograph

Taylor, M.H., Dillon, W.P. and Pecher, I.A., (1999). Trapping and migration of methane within the hydrate stability zone at the Blake Ridge Diapir; New insights from seismic data. *Marine Geology. 6*4, 79-89

Taylor, M.H, W.P. Dillon, W. Danforth, C. Anton, (2000). Seismic Reflection profiles from the

Blake Ridge, R/V Cape Hatteras. *USGS Open-file Report*.

Dillon W.P., Danforth W.W., Hutchinson D.R., Drury R.M., **Taylor M.H**. & Booth J.S., (1998). Evidence for faulting related to dissociation of gas hydrate and release of methane off the southeastern United States. In: Henriet J.P. & Mienert J. (eds) Gas Hydrates: Relevance to World Margin Stability and Climate Change. Geological Society, London, Special Publications, 137, 293-30

Presentations

Abstracts and Talks

Campbell, Clay, F, Taylor, Michael, H, Ocakoglu, Faruk, Licht, Alexis, Mueller, Megan, A, Moller, Andreas, & Beard, Kenneth, C. (2019). Did the Central Anatolian Cankiri Basin form as a Result of an Oligocene-Miocene Rayleigh-Taylor Instability? *in* GSA Annual Meeting, Phoenix, Arizona

Campbell, Clay, F, Taylor, Michael, H, Ocakoglu, Faruk, Licht, Alexis, Mueller, Megan, A, Moller, Andreas, & Beard, Kenneth, C. (2019). Did the Central Anatolian Cankiri Basin form as a Result of an Oligocene-Miocene Rayleigh-Taylor Instability? The 34th Himalaya-Karakorum-Tibet Workshop. http://doi.org/10.5281/zenodo.3238707

Hoxey, A., Taylor, M.H., Styron, R.H., Murphy, M.A., and Bemis, S.P., 2019, Evidence for recent dextral slip along the Western Nepal Fault System in northwest Nepal, *in* Abstract volume of the 34th Himalaya-Karakorum-Tibet Workshop, Bozeman, Montana, p. 38,http://doi.org/10.5281/zenodo.3238707.

Hoxey, A., Taylor, M.H., Styron, R.H., Murphy, M.A., Bemis, S.P., Adhikari, B.R., and Chamlagain, D., 2019, Evidence for recent dextral slip along the Western Nepal Fault System in northwest Nepal, *in* 2019 GSA Annual Meeting, Phoenix, Arizona.

Taylor, M. (2017, September). *Extending Tibet and the High Himalaya – Implications for landscape development, the internally drained Tibetan plateau, and the Indus River* . Invited departmental colloquium, University of Tennessee, Knoxville. (Invited)

Taylor, M. (2017, April 21). *Building the Himalayas and Tibet*. Keynote Lecture, Asia Symposium, 2017, University of Kentucky, Lexington. (Invited)

Taylor, M., Laskowski, A., Campbell, C., & Kapp, P. (2017, December). *Upper crustal extension of Tibet and the High Himalaya – Implications for landscape development, the internally drained Tibetan plateau, and the Yarlung-Tsangpo River*. AGU Annual Fall Meeting, New Orleans.

Laskowski, A., Taylor, M., Campbell, C., & Kapp, P. (2017, October). *Tibetan Duplexing and the Yarlung River: Structural Model for Oligocene—Miocene Relief Generation along the Gangdese Mountains*. GSA Annual Meeting, Seattle. (International)

*Campbell, C., Taylor, M., Licht, A., Okaglau, F., Metais, G., & Bear, K. C. (2017, December). *TECTONIC EVOLUTION OF THE IZMIR ANKARA SUTURE ZONE IN NORTHWEST TURKEY USING ZIRCON U-PB GEOCHRONOLOGY AND ZIRCON LU-HF ISOTOPIC TRACERS*. AGU Annual Fall Meeting, New Orleans. (International)

*Schwab, D., Bidgoli, T., Taylor, M., & Stearns, L. (2017). *Characterizing the potential for fault reactivation related to CO2 injection through subsurface structural mapping and stress field analysis, Wellington Field, Sumner County, KS*. AAPG, 2017, spring meeting.

Beard, K. C., Metais, G., Coster, P., Okagalu, F., Licht, A., & Taylor, M. (2017, October). *ASSEMBLY OF AN ENDEMIC ISLAND BIOTA ON THE EOCENE PONTIDE TERRANE (NORTHERN ANATOLIA): PALEOGEOGRAPHIC AND PALEOCLIMATIC IMPLICATIONS*. GSA Annual Meeting, Seattle. (International)

*Campbell, C., Taylor, M., Licht, A., Okagalu, F., Metais, G., & Bear, K. C. (2017, October). *TECTONIC EVOLUTION OF THE IZMIR ANKARA SUTURE ZONE IN NORTHWEST TURKEY USING ZIRCON U-PB GEOCHRONOLOGY AND ZIRCON LU-HF ISOTOPIC TRACERS*. GSA Annual Meeting, Seattle. (International)

Mueller, M., Licht, A., *Campbell, C., Okagalu, F., Taylor, M., Burch, L., Coster, P., Metais, G., & Beard, K. C. (2017, October). *CHRONOLOGY OF SUTURING AND POST-COLLISIONAL DEFORMATION OF THE ANATOLIAN OROGENY, TURKEY: INSIGHTS FROM GEOCHRONOLOGY AND SEDIMENTOLOGY OF THE SARICAKAYA BASIN, WESTERN ANATOLIA*. GSA Annual meeting, Seattle. (International)

Beard, C., Metais, G., Coster, P., Ocakoglu, F., Licht, A., & Taylor, M. (2016). *Tethyan island biogeography during the Eocene: A view from northern Anatolia*. Journal of Vertebrate Paleontology, 2016. Journal of Vertebrate Paleontology.

Taylor, M. (2016, October). *Boundary conditions for the India-Asian collision in western Tibet: Collision obliquity vs. Underthrusting India*. GSA, 2016, Denver. (Invited)

*Veloza, G., & Taylor, M. (2016). *Reconciling the Heat Flow and State of Stress of the Santa Marta - Bucaramanga Fault System*. XII Simposio Bolivariano de Cuencas Subandinas, 2016, Bogota, Colombia.

*Hoxey, A., Taylor, M., & *Campbell, C. (2016, October). *Geospatial representation of regional-scale channel-slope variation along the Himalayan Range*. GSA, 2016, Denver.

Taylor, M., *Styron, R., & Murphy, M. (2015). *Segmentation of the Himalayan Arc: The effects of collision obliquity on the development of active faults and earthquake potential*. GSA Fall meeting, 2015. (International)

*Schwab, D., Bidgoli, T., & Taylor, M. (2015). *Characterizing CO2 injection using subsurface structural mapping and stress field analysis, cGPS, and InSAR, Wellington Field, Sumner County, KS*. KDHE Environmental Conference, 2015, Topeka.

*Schwab, D., Bidgoli, T., & Taylor, M. (2015). *Determining the risk for induced seismicity associated with pilot-scale CO2 injection at Wellington Field, Sumner County, KS*. GSA Fall meeting, 2015. (International)

*Schwab, D., Bidgoli, T., Taylor, M., & Stearns, L. (2015). *Characterizing the potential for fault reactivation related to CO2 injection through subsurface structural mapping and stress field analysis, Wellington Field, Sumner County, KS*. AGU Fall meeting, 2015, San Francisco. (International)

*Dalman, E., Taylor, M., *Veloza, G., & Gosse, J. (2014). *Active faulting along the Guicarimo thrust fault, Llanos basin, Colombia*. AGU Fall Meeting. (International)

Taylor, M., *Styron, R., *Sundell, K., Murphy, M., Gosse, J., & Whipp, D. (2014). *Dynamics of east-west extension for the western region of the Indo-Asian collision zone*. Fall GSA. (International)

Taylor, M. (2013). *Upper crustal rifting on the Tibetan plateau tracks lower crustal thickening and underthrusting India*. California Institute of Technology, Tectonics Observatory, Pasadena, CA. (Invited) (International/National)

*Veloza, G., Taylor, M., Mora, A., Gosse, J., & Becker, T. (2013). *Geomorphic Response to Flat Slab Subduction along the Eastern Foothills of the Colombian Andes*. Fall AGU, San Francisco. (International)

*Dalman, E., Taylor, M., *Veloza, G., & Mora, A. (2013). *USING FLUVIAL GEOMORPHOLOGY TO DESCRIBE ALONG-STRIKE VARIATIONS IN QUATERNARY DEFORMATION IN THE EASTERN FOOTHILLS OF THE EASTERN CORDILLERA, COLOMBIA*. GSA Annual Meeting. Geological Society of America Abstracts with Programs. (International)

*Sundell, K., Taylor, M., & *Styron, R. (2013). *CONSTRICTION AND PLIOCENE ACCELERATION OF EAST-WEST EXTENSION IN THE NORTH LUNGGAR RIFT REGION OF WEST-CENTRAL TIBET*. AGU Fall meeting. EOS proceeedings. (International)

*Veloza, G. F., Taylor, M. H., & Mora, A. (2013). *The effects of flat slab subduction observed in the Eastern Cordillera of Colombia*. Spring AGU, Cancun, Mexico. (International)

Taylor, M. H., *Veloza, G. F., Mora, A. R., Monsalve, G., Sheehan, A. F., Worthington, L. A., & Becker, T. W. (2013, September). *Neotectonic development of the Llanos basin, Colombia: Implications for fault slip rates, timing of trap formation, and petroleum exploration*. AAPG, Cartagena, Colombia. (International)

Taylor, M. H. (2013, September). *Neotectonic development of the Llanos basin, Colombia: Implications for fault slip rates, timing of trap formation, and petroleum exploration*. AAPG, Cartagena, Colombia. (Invited)

*Veloza, G. F., Taylor, M. H., & Mora, A. (2013, September). *Quaternary folding of the Tame Anticline, Llanos basin, Colombian Andes*. AAPG, Cartagena, Colombia.

Ishiyama, T., Sato, H., & Taylor, M. H. (2012, Fall). *Tectonics of the Japanese Islands and Relationships to the tectonic development of Eastern Asia*. Pacific Rim Subduction Workshop, Earthquake Research Institute, University of Tokyo. (Invited) (International)

Taylor, M. H. (2012, Fall). *The effects of flat slab subduction observed in the Eastern Cordillera of Colombia*. Pacific Rim Subduction Workshop, Earthquake Research Institute, University of Tokyo. (Invited) (International)

Elliot, A., Oskin, D., Banesh, P., Gold, P., Hinojosa-Corona, A., *Styron, R., & Taylor, M. H. (2012). *How quickly do earthquakes get locked in the landscape? One year of erosion on El Mayor-Cucapah rupture scarps imaged by repeat terrestrial lidar scans*. AGU Fall meeting, San Francisco, CA. (International)

*Logan, M., Taylor, M. H., *Styron, R., Gosse, J., Ding, L., & Yang, G. (2012). *Active low-angle (?) normal faulting along the North Lunggar rift, western Tibet*. AGU Fall meeting, San Francisco, CA. (International)

Taylor, M. H. (2012, November). *Active structures in the Himalayan-Tibetan orogen and implications for lithospheric and seismogenic processes*. Earthquake Research Institute, University of Tokyo. (Invited) (International)

Taylor, M. H. (2012, November). *The effects of flat slab subduction observed in the Eastern Cordillera of Colombia*. Earthquake Research Institute, Univ. of Tokyo. (Invited) (International)

Taylor, M. H. (2012, Summer). *Dynamics of orogenic belts – An example from the Himalaya and Tibet*. KU mini college, University of Kansas, Lawrence, KS. (Invited)

Taylor, M. H. (2012, April). *Dynamics of orogenic belts – An example from the northern Andes*. Miami University, Dayton, OH. (Invited)

Taylor, M. H. (2012, Spring). *Dynamics of orogenic belts – An example from the northern Andes*. Kansas Geological Society, Wichita, KS. (Invited)

Elliot, A., Gold, P., *Styron, R., *Herrs, A., Oskin, M., Taylor, M. H., & Corona, A. (2011, Fall). *Time series of scarp modification on the 2010 El Mayor-Cucapah earthquake rupture from repeat terrestrial LiDAR surveys*. AGU Fall meeting, San Francisco, CA.

Gold, P., Elliot, A., Oskin, M., Taylor, M. H., Corona, A., Kreylos, O., Bernadin, T., Cowgill, E., & *Herrs, A. (2011, Fall). *Assessing coseismic slip with terrestrial lidar scans of the 4 April 2010 El Mayor-Cucapah surface rupture*. AGU Fall meeting, San Francisco, CA. (International)

Gold, P., Elliot, A., Oskin, M., Taylor, M. H., Hinojosa, A., Kreylos, O., Bernadin, T., Cogill, E., & *Herrs, A. (2011, Fall). *Assessment of coseismic slip variation from terrestrial lidar scans of the El Mayor-Cucapah surface rupture*. SCEC annual meeting, Palm Springs, CA.

*McCallister, A., Taylor, M. H., Stockli, D., & Murphy, M. (2011, Fall). *The Late Cenozoic tectonic evolution of the Gurla Mandhata detachment system, southwest Tibet*. GSA Annual meeting, Minneapolis, MN.

Stockli, D., Horton, B., Taylor, M. H., *Sundell, K., Woodruff, W., Kapp, P., Hager, C., & Ding, L. (2011, Fall). *Reconstruction of the tectonic and exhumation history of the north Lunggar Rift, southern Tibet through integrated footwall and detrital hangingwall thermochronometry*. GSA Annual meeting, Minneapolis, MN.

*Styron, R., Taylor, M. H., Stockli, D., *Sundell, K., *McCallister, A., Ding, L., & Liu, D. (2011, Fall). *Along-strike variations in extensional style for the Lunggar Rift, Southern Tibet: the role of gravitational potential energy and basal shear tractions*. AGU Fall meeting, San Francisco, CA. (International)

*Styron, R., Taylor, M. H., Stockli, D., *Sundell, K., *McCallister, A., Ding, L., & Liu, D. (2011, Fall). *The south Lunggar Rift, western Tibet: Rates, timing, and evolution of an active detachment system from structural mapping and U-Th/He thermochronology*. GSA Annual meeting, Minneapolis, MN.

*Sundell, K., Taylor, M. H., Stockli, D., *Styron, R., Kapp, P., & Ding, L. (2011, Fall). *Late Miocene-Pliocene development of the North Lunggar Rift: Implications for the onset of strike-slip faulting and constructional strai in Central Tibet*. AGU Fall meeting, San Francisco, CA.

Taylor, M. H., *Veloza, G., & Mora, A. (2011, Fall). *Crustal thickening and strike-slip controlled growth of the northern Colombia Andes*. SCEC annual meeting, Palm Springs, CA.

Taylor, M. H. (2011, Fall). *Active Structures in the Himalayan-Tibetan orogen: Relationship between pre-existing structures, igneous activity, and modern deformation rates*. AGU Fall meeting, San Francisco, CA. (Invited) (International)

Taylor, M. H. (2011, Fall). *Neotectonic Development of Continental Plateaus from Crustal thickening to Extensional Collapse*. LSU, Baton-Rouge, LA. (Invited)

*Veloza, G., Taylor, M. H., Mora, A., & Stockli, D. (2011, Fall). *Active folding of the Tame anticline, Eastern Foothills, Colombian Andes*. AGU Fall meeting, San Francisco, CA. (International)

*Veloza, G., Taylor, M. H., Mora, A., & Stockli, D. (2011, Fall). *Quaternary folding of the Tame anticline, Llanos basin, Colombian Andes*. GSA Annual meeting, Minneapolis, MN.

Gosse, J., Hidy, A., Kozial, C., McDonald, E., Kirby, E., Walker, J. D., Rittasse, W., Taylor, M. H., & Lee, J. (2011). *Elusive TCN exposure chronology of alluvial fan strain markers*. INQUA, Bern, Switzerland.

Taylor, M. H., Mora, A., *Veloza, G., Stockli, D., Gosse, J., Walker, J. D., & Mocek, B. (2011, January). *Along strike shortening rates along the eastern Andes of Colombia – examples from the Llanos basin*. Conference on Thick-skin-dominated orogens; from initial inversion to full accretion, Barichara, Colombia. (Invited)

Taylor, M. H. (2011, January). *Neotectonic Development of the Llanos basin, Colombia*. GSA Penrose Conference, Colombia. (Invited)

Taylor, M. H. (2011, January). *Neotectonic Development of the Llanos basin, Colombia*. ICP-Ecopetrol, Colombia. (Invited)

Taylor, M. H. (2011, January). *Neotectonic shortening rates across the eastern Andes of Colombia: Implications for collision of the Panamanian arc*. GSA Penrose Conference, Manizales, Colombia. (Invited)

*Veloza, G., Taylor, M. H., Mora, A., Stockli, D., Clifton, T., & Caffee, M. (2011, January). *Preliminary uplift rates for the Tame anticline, Eastern Foothills of Colombia using in situ terrestrial cosmogenic nuclides*. GSA Penrose, Manizales, Colombia.

Gold, P., Elliot, A., Oskin, M., Taylor, M. H., *Herrs, A. J., Hinojosa, A., Kreylos, O., Bernadin, T., & Cowgill, E. (2010, Fall). *Analyses of coseismic surface deformation using terrestrial lidar scans of the 4 April 2010 El Mayor-Cucapah Earthquake rupture*. SCEC annual meeting, Palm Springs, CA.

Gold, P., Elliot, A., Oskin, M., Taylor, M. H., *Herrs, A. J., Hinojosa, A., Kreylos, O., Bernadin, T., & Cowgill, E. (2010, Fall). *Terrestrial LiDAR analyses of coseismic surface deformation from the 4 April 2010 El Mayor-Cucapa Earthquake*. AGU annual meeting, San Francisco, CA.

Oskin, M., Gold, P., Hinojosa, A., Arrowsmith, R., Elliot, A., Taylor, M. H., *Herrs, A., Sartori, M., Gonzalez, J., Gonzalez, A., Kreylos, O., & Cowgill, E. (2010, Fall). *Airborne and terrestrial lidar imaging and analysis of the 4 April 2010 El Mayor-Cucapah earthquake rupture*. AGU Annual Meeting, San Francisco, CA.

*Styron, R., Taylor, M. H., Stockli, D., Liu, D., & Ding, L. (2010, Fall). *Preliminary structural and thermochronological observations from the South Lunggar Rift: A Juvenile Detachment in Western Tibet?* AGU Annual Fall Meeting, San Francisco, CA.

*Sundell, K., Taylor, M. H., Stockli, D., Styron, R., Kapp, P., Liu, D., & Ding, L. (2010, Fall). *Late Miocene-Pliocene rifting in west-central Tibet: Evidence from (U-Th)/He thermochronology of the North Lunggar Rift*. AGU Annual Meeting, San Francisco, CA.

Taylor, M. H. (2010, Fall). *Neotectonic Development of Continental Plateaus from Crustal thickening to Extensional Collapse*. University of Nebraska, Lincoln. (Invited)

Taylor , M. H. (2010, Fall). *Tibet: From the perspective of a mountain builder*. University of Kansas, CEAS, Lawrence, KS. (Invited)

Gold, P., Elliot, A., Oskin, M., *Herrs, A. J., Taylor, M. H., Hinojosa, A., Kreylos, O., Bernadin, T., & Cowgill, E. (2010). *Analyses of recent coseismic surface rupture using terrestrial LiDAR*. GSA Annual Meeting, Denver, CO.

Gold, P., Elliot, A., Oskin, M., *Herrs, A., Taylor, M. H., & Cowgill, E. (2010). *Terrestrial LIDAR scans of the El-Mayor-Cucapah earthquake surface rupture*. AAPG, Annual Meeting, Cordilleran section.

*Styron, R., Taylor, M. H., Stockli, D., Liu, D., & Ding, L. (2010). *The South Lunggar Rift: A Juvenile Detachment in Western Tibet?* GSA Annual Fall Meeting, Denver, CO.

*Sundell, K., Taylor, M. H., Stockli, D., Kapp, P., *Styron, R., & Ding, L. (2010). *Low temperature thermochronology of the Lunggar Shan extensional system, west-central Tibet*. Thermo2010 meeting, Glasgow, Scotland.

*Sundell, K., Taylor, M. H., Stockli, D., *Styron, R., Kapp, P., Liu, D., & Ding, L. (2010). *The North Lunggar Rift: A proxy for the timing of extension in west-central Tibet*. GSA Annual Meeting, Denver, CO.

Taylor, M. H., Mora, A., Teson, E., Gosse, J., Stockli, D., Walker, J. D., Mocek, B., & *Velosa, G. (2010). *Along-strike shortening rates across the Eastern Foothills of the Colombian Andes: Examples from the Llanos Basin*. GSA Annual Meeting, Denver, CO.

Taylor, M. H. (2010). *Development of low-angle normal faults and their geomorphic response, Lunggar Shan Tibet*. ICP-Ecopetrol, Bucaramanga, Colombia. (Invited)

Taylor, M. H. (2009, Fall). *Measuring active surface subsidence using terrestrial LiDAR at Brandy Lake, Kansas*. University of Kansas, Engineering Symposium, Lawrence, KS. (Invited)

*Herrs, A., Taylor, M. H., Watney, L., & Miller, R. (2009). *Quantifying surface subsidence along US highway 50, Reno County KS, using terrestrial lidar and seismic methods: Implications for sinkhole development and risk assessment along rapidly developing urban corridors*. GSA meeting, Portland, OR.

*Styron, R., & Taylor, M. H. (2009). *Kinematics of the Himalayan arc from GPS geodesy and structural geology*. AGU Fall Meeting, San Francisco, CA.

*Sundell, K., Taylor, M. H., Stockli, D., Kapp, P., & *Styron, R. (2009). *A field test of the rolling hinge model: Example from the Lunggar extensional system*. Fall AGU meeting, San Francisco, CA.

Taylor, M. H., Mora, A., Goose, J., Stockli, D., & Mocek, B. (2009). *Preliminary shortening rates across the eastern foothills of the Colombian Andes; Examples from the Yopal region of the Llanos basin*. Fall AGU meeting, San Francisco, CA.

*Styron, R., Taylor, M. H., & Murphy, M. (2009, August 14). *Himalayan orogen-parallel extension from GPS geodesy and structural geology*. Himalayan orogen-parallel extension from GPS geodesy and structural geology, Beijing, China.

Taylor, M. H. (2009, Spring). *Active sinkhole development at Brandy Lake, Hutchinson, Kansas*. University of Kansas, KU-TRI, Lawrence, KS. (Invited)

Taylor, M. H., Kapp, P., & Stockli, D. (2008). Geomorphic Response of an Active Metamorphic Core-Complex in a Collisional Orogen: Example from the Lunggar Shan, Southern Tibet. In *Earth and Environmental Science 2. IOP Conf. Series*.doi:10.1088/1755-1307/2/1/012027 012027

Yin, A., & Taylor, M. H. (2008). Non-Andersonian conjugate strike-slip faults: Observations, theory, and tectonic implications. In *IOP Conf. Series. Earth and Environmental Science 2*. doi:10.1088/1755-1307/2/1/012026 012026

Taylor, M. H. (2008, Fall). *Development of the low-angle normal fault systems in regions of hot, thick crust*. The Lunggar Shan extensional system, University of Houston. (Invited)

Casey, Z., Walker, J. D., & Taylor, M. H. (2008). *Kinematics of the Cerro Coso Fault and its intersection with the Garlock Fault, Southern Indian Wells, CA*. GSA Cordilleran and Rocky Mountain section.

Rittase, W., Walker, J. D., Taylor, M. H., & Kirby, E. (2008). *Active tectonics of the Garlock Fault in the southern Slate Range of the Northern Mojave desert, California*. GSA Cordilleran and Rocky Mountain section.

Rittase, W., Walker, J. D., Taylor, M. H., & Kirby, E. (2008). *Fault Mechanics and Active Strain Along the Garlock Fault in SE California*. Fall AGU meeting, San Francisco, CA.

Sanchez, V., Taylor, M. H., & Murphy, M. (2008). *Neotectonics of the Lopukangri Fault System Using Remote-Sensing Observations*. Fall AGU meeting, San Francisco, CA.

Taylor, M. H., & Murphy, M. (2008). *Active Orogen Parallel Strike-Slip Faulting in the Lower Dolpa Region, Northwest Nepal: Implications for Expansion of the Himalayan Arc*. Fall AGU meeting, San Francisco, CA.

Taylor, M. H., Kapp, P., & Stockli, D. (2008). *Geomorphic Response of an Active Metamorphic Core-Complex in a Collisional Orogen: Example from the Lunggar Shan, Southern Tibet*. Donald. D. Harrington Symposium, University of Texas, Austin, TX.

Taylor, M. H., Kapp, P., & Stockli, D. (2008). *The Geomorphic Response of An Active Metamorphic Core-Complex: An Example from the Lunggar Rift, Southern Tibet*. GSA meeting, Houston, TX.

Taylor, M. H. (2008). *Geomorphic response of an active metamorphic core-complex, Lunggar Shan, Tibet*. Donald D. Harrington Symposium, University of Texas, Austin. (Invited)

Taylor, M. H. (2008, Spring). *Dynamics of conjugate strike-slip fault formation; examples from central Tibet*. University of Missouri, Columbia, Columbia, MO. (Invited)

Taylor, M. H. (2008, Spring). *Neotectonics of central Tibet*. Iowa State. (Invited)

Taylor, M. H. (2007, Fall). *Dynamics of conjugate strike-slip fault formation; examples from central Tibet*. University of Alabama. (Invited)

Taylor, M. H. (2007, Fall). *Dynamics of conjugate strike-slip fault formation; examples from central Tibet*. University of North Carolina. (Invited)

Taylor, M. H. (2007, Fall). *The utility of synthetic aperture radar interferometry in measuring ground surface deformation*. Kansas Geological Survey. (Invited)

Kapp, P., Taylor, M. H., & Stockli, D. F. (2007). *Rift development in regions of hot, overthickened crust: Insight from Tibet*. International Conference on Non-marine basin systems: Depositional processes and products, stratigraphy, and petroleum reservoir exploration, Beijing. (Invited)

Kapp, P., Taylor, M. H., & Stockli, D. (2007). *Rift development in regions of hot, overthickened crust: Insight from Tibet*. GSA-Abstracts with programs, Denver Meeting.

Taylor, M. H., Kapp, P., Stockli, D., & Lin, D. (2007). *Active Metamorphic Core-Complex Development in the Hinterland Regions of Hot, Thick Crust: A New View of East-West Extension in Tibet*. Geological Society of America, North-Central Meeting, Lawrence, KS.

Taylor, M. H., Kapp, P., Stockli, D., & Lin, D. (2007). *Active Metamorphic Core-Complex Development in the Hinterland Regions of Hot, Thick Crust: A New View of East-West Extension in Tibet*. GSA Penrose conference, Naxos Island, Greece.

Taylor, M. H., Kapp, P., Stockli, D., Murphy, M., Dewane, T., & Lin, D. (2007). *Structural Observations From the Tangra Yum Co, Lunggar Shan, and Lopu-Kangri Rift Systems, Southern Tibet*. Fall AGU Meeting.

Taylor, M. H., Walker, J. D., Casey, Z., Szymanski, E., Fairchild, J., Hall, B., Grunau, J., Scriven, W., & Lobue, D. (2007). *Preliminary Geomorphic and Structural Observations along the Central Segment of the Garlock Fault; Why does the Garlock Defy Slip Rate Predictions?* National EarthScope meeting, Monterey, CA.

Yin, A., & Taylor, M. H. (2007). *Mechanics of Non-Andersonian Conjugate Strike-slip Faults in Active Collisional Orogens: Observations, Theories, and Implications for Laterally Moving Asthenospheric Flow*. GSA-Abstracts with programs, Denver Meeting.

Taylor, M. H. (2007, Spring). *Dynamics of conjugate strike-slip fault formation; examples from central Tibet*. Dalhousie University. (Invited)

Taylor, M. H. (2006, Fall). *Neotectonic development of central Tibet*. University of Arizona. (Invited)

Dewane, T. J., Stockli, D., Hager, C., Taylor, M. H., Ding, L., & Lee, J. (2006). *Timing of Cenozoic E-W Extension in Tangra Yum Co Rift, Central Tibet*. Himalayan-Karakoram-Tibet Workshop.

Dewane, T. J., Stockli, D., Taylor, M. H., Lee, J., & Lin, D. (2006). *Timing of Cenozoic E-W Extension in the Tangra Yum Co-Kung Co Rift, south-central Tibet*. AGU Fall meeting.

Murphy, M., & Taylor, M. H. (2006). *Geometry and Kinematics of the Lopukangri Fault System: Implications for Internal Deformation of the Tibetan Plateau*. AGU Fall meeting.

Taylor, M. H., Kapp, P., Stockli, D., Lee, J., & Lin, D. (2006). *The Longgur-Shan Detachment System, west central Tibet: An Example of an Active Low-Angle Normal Fault?* AGU Fall meeting.

Taylor, M. H., LePrince, S., & Avouac, J. P. (2006). *A Study of the 2002 Denali Co-seismic Displacement Using SPOT Horizontal Offsets, Field Measurements, and Aerial Photographs*. AGU Fall meeting.

Taylor, M. H., LePrince, S., & Avouac, J. P. (2006). *The 2002 Denali Earthquake: Insight into Slip-Partitioning and growth of the Alaska Range*. GSA, Backbone of the Americas, Mendoza, Argentina.

Taylor, M. H. (2006, Spring). *Dynamics of conjugate strike-slip fault formation, examples from central Tibet*. Kansas State University. (Invited)

Taylor, M. H. (2005, Fall). *Measuring co-seismic displacements from the Denali earthquake using SPOT horizontal offsets*. University of Kansas. (Invited)

Taylor, M. H. (2005, Spring). *Measuring co-seismic displacements from the Denali earthquake using SPOT horizontal offsets*. University of California, Los Angeles. (Invited)

Taylor, M., LePrince, S., Avouac, J.P., (2005), A Study of the 2002 Denali Co-seismic Displacement Using SPOT Horizontal Offsets, Field Measurements, and Aerial Photographs. AGU Fall meeting

Meriaux, A., K. Sieh, C.M. Rubin, F.J. Ryerson, R.C. Finkel, A. Meltzner, and M. Taylor, (2004). Kinematics of the southern Alaska constrained by westward-decreasing post-glacial slip-rates on the Denali fault, Alaska, Eos, Transactions, American Geophysical Union 85 (47), Fall Meet. Suppl.

Taylor, M., G. Peltzer, An Yin, (2003). InSAR observations of conjugate strike-slip faulting in West Central Tibet. AGU Fall meeting

Peltzer, G. .Taylor M., (2003), Earthquakes displacement and fault slip-rates in Tibet from ERS interferometry, European Space Agency, Fringe Workshop

Stockli, D.F., Taylor, M., Yin, A., Harrison, T.M., D'Andrea, J., Kapp, P., (2002), Late Miocene-Pliocene inception of E-W extension in Tibet as evidenced apatite (U-Th)/He data: GSA Abstracts with Programs, v. 34, n. 6, p. 411.

Taylor, M., G. Peltzer, An Yin, F.J. Ryerson, R. Finkel, L. Ding, (2002). Integrating InSAR and Geologic Estimates of slip rates in Central Tibet. GSA Annual meeting.

Taylor, M., G. Peltzer, An Yin, F.J. Ryerson, R. Finkel, L. Ding, (2002). Active Deformation in Central Tibet: Constraints from InSAR and Geologic Observations. AGU Fall meeting.

Taylor, M.H., An Yin, P. Kapp, F.J. Ryerson, Lin Ding, (2001). Coeval east-west Extension and north-south Shortening in Central Tibet. AGU Fall meeting.

Taylor, M.H., An Yin, P. Kapp, F.J. Ryerson, (2000). Eastward Extrusion of Central Tibet. AGU Fall meeting

Ten Brink U.S., Taylor M.H., and Golmschtok, A., (2000); Baikal Rift as an Analogue to the Early Opening Stage of the Atlantic ocean. AGU Fall meeting

Taylor M.H., An Yin, P. Kapp, J. D'Andrea, T.M. Harrison, F.J. Ryerson, Yong Zhou, (1999).The Mayer Kangri Rift and Transform System: Kinematics and Magnitude of Extension in Central Tibet. AGU Fall meeting.

Dillon, W.P., Taylor, M.H., Anton, C.H. ,and Booth, J.S. Formation of the Blake Ridge collapse structure [abs.],(1999). Gas hydrates and Challenges for the Future, Program, Third International Conference on Gas Hydrates,, Salt Lake City, Utah, United Engineering Foundation(unpaginated).

Taylor M.H., ten Brink U.S., (1998); Crustal Structure below Lake Baikal from coincidental seismic refraction and reflection data. AGU Spring meeting

Taylor M.H., Dillon, W.P., Pecher, I.A., Paull,C.K., (1997); Faulting architecture above a diapir in a gas hydrate zone and its contribution to gas migration. AGU Fall meeting

Field Research

University of Kansas

Field School

Fieldtrip leader, Colorado river, Grand Canyon (May 2019)

Fieldtrip leader, San Andreas fault. (Oct. 2018)

Fieldtrip co-leader (with Mike Blum), Salta, Argentina. (May 2018)

Fieldtrip leader, Canon City, CO. Ancestral Rockies (2014).

Fieldtrip leader, Iceland. Tectonics (September 2013).

Fieldtrip leader, Banff, Canada. Thrust belts (May 2013).

Fieldtrip co-leader, KU Geology Summer Field Camp. (2008 - Present).

Fieldtrip leader, Mojave. (2010-present).

Fieldtrip leader, Arbuckle Mountains. (2009 - 2010).

Fieldtrip leader, San Andreas fault. (2005, 2006, 2009, 2010).

Fieldtrip co-leader, Garlock, Co-leader with J.D. Walker. (2007 - 2009).

Fieldtrip leader, Catalina-Rincon mountains, Tucson, AZ. (2008).

Fieldtrip leader, Remote Sensing, Mojave, Death Valley and Owens Valley. (2006, 2008, 2009,

2010).

Fieldtrip leader, San Andreas fault. (2005).

Fieldtrip leader, Neotectonics of the Mojave and Death Valley (2014, 2015, 2016)

Teaching Key Words

Structural Geology, Advanced Field Mapping, Tectonics, Neotectonics, Geomorphology, Tibet, Himalaya, Andes, Anatolia

Dissertation/Thesis Supervision

University of Kansas

Graduate

Dissertation Committee Member
- Isaac Alred, PhD, Status: in progress. Fall 2016 - Present
- Brian Miller. 2013

Doctoral Committee Chair
- Andrew Hoxey, PhD, Status: in progress August 2018-present
- Clay Campbell, PhD, Status: in progress. August 2017 - Present
- Gabriel Veloza, PhD, Status: in progress. Fall 2012 - Present
- Richard Styon, PhD, Status: completed. Fall 2012
  - E. Haworth award recipient (to best graduating PhD student)

Doctoral Committee Member
- John Lee, PhD, Status: completed. 2018.
- Diana Ortega-Ariza, PhD, Geology, Status: completed. 2016
- Tandis Bigdoli, PhD, Status: completed. 2014
- Willy Rittasse, PhD, Status: completed. Fall 2012
- Matthew Pierson, PhD Engineering, Status: completed. 2010

Master's Committee Chair
- Daniel Mongovin, MS, in progress since 2020
- Clay Campbell, MS, Status: completed. July 2017
  - Honor's Distinction
- Andrew Schwab, Status: completed. February 2017
- Erica Dalman, MS, Status: completed. May 2015
- Andrew McCallister, MS, Status: completed. Fall 2012
- Gabriel Veloza, MS, Status: completed. Fall 2012
  - With Honors distinction
- Kurt Sundell, MS, Status: completed. Spring 2011
  - With Honors distinction
- Andrew Herrs, MS, Status: completed. Spring 2010
  - With Honors distinction

Master's Committee Member
- Emily Bunse. August 15, 2015 - Present

Steve Alm, Status: completed.
Logan Byers, Status: in progress.
Zack Casey, MS, Status: withdrew.
Christine Frasca, MS, Status: completed. Fall 2012
Erin Young, Status: completed. 2011
Travis Glauser, Status: completed. 2009
Markella Hoffman, Status: completed. 2009
John Lee, Status: completed. 2008

Undergraduate

Jacque Lee, BS Geology, August 15, 2018 - June 15, 2019. Undergraduate Research Advisor
Andrew Hoxey, BS Geology, August 15, 2015 - June 15, 2016. Undergraduate Research Advisor
Jaque Miller, BS Geology, January 2014 - May 2014. Undergraduate Research Advisor
Angie Unrein, BS Geology, January 2014 - May 2014. Undergraduate Research Advisor
Kevin Walter, BS Geology, 2012. Undergraduate Academic Advisor
Scott Biel, BS Geology, 2011. Undergraduate Academic Advisor
Colin Welland, BS Geology, 2011. Undergraduate Academic Advisor
Yaser Al-Zayer, BS Geology with Honors distinction, 2010. Undergraduate Academic Advisor
Kelechi Okoronokwo, BS Geology, 2010. Undergraduate Academic Advisor

University of Houston

Dissertation Committee Member
Matthew Cannon, Status: completed. August 15, 2010 - May 15, 2016

Graduate Committee
Tom Baltz, MS, Status: completed. 2012
Calvin Silver, MS, Status: completed. 2012
Veronica Sanchez, PhD, Status: completed. 2011

KU Courses Taught (past five years)

Summer 2020
GEOL 301, Oceanography

Spring 2019
GEOL 301-85753, Oceanography
GEOL 591/791, Regional Geology of Grand Canyon

Fall 2018
GEOL 591/791, Topics in Geology: Advanced Mapping
GEOL 791-11979, Advanced Topics in Geology: Geochem&Tectonics

Summer 2018
GEOL 301-85753, Oceanography
GEOL 561-80856, Field Geology

Spring 2018
GEOL302-85753,Oceanography
GEOL 562-52029, Structural Geology
GEOL 562-52030, Structural Geology

GEOL 562-55902, Structural Geology
GEOL 791-52033, Advanced Topics in Geology: Geochem&Tectonics

Fall 2017
GEOL 791-11802, Advanced Topics in Geology: Geochem&Tectonics

Summer 2017
GEOL 302-85753, Oceanography
GEOL 561-80856, Field Geology
GEOL 891-82729, Special Studies in Geology
GEOL 899-82730, Master's Thesis

Spring 2017
GEOL 891-55693, Special Studies in Geology

Fall 2016
GEOG 541-22170, Geomorphology
GEOG 541-22209, Geomorphology
GEOL 541-22264, Geomorphology
GEOL 541-22265, Geomorphology
GEOL 591-30686, Topics in Geology: Orogenic Systems
GEOL 791-11979, Advanced Topics in Geology: Geochem&Tectonics
GEOL 791-30687, Advanced Topics in Geology: Orogenic Systems
GEOL 891-15822, Special Studies in Geology

Summer 2016
GEOL 391-82982, Special Studies in Geology
GEOL 561-80909, Field Geology

Spring 2016
GEOL 562-52029, Structural Geology
GEOL 562-52030, Structural Geology
GEOL 562-55902, Structural Geology
GEOL 771-70387, Advanced Geophysics: Induced Seismicity&Fluid Injection
GEOL 791-52033, Advanced Topics in Geology: Geochem&Tectonics

Fall 2015
GEOG 541-23644, Geomorphology
GEOG 541-23724, Geomorphology
GEOL 541-23824, Geomorphology
GEOL 541-23825, Geomorphology
GEOL 791-12099, Advanced Topics in Geology: Geochem&Tectonics
GEOL 891-16332, Special Studies in Geology
GEOL 899-16333, Master's Thesis

Summer 2015
GEOL 561-80982, Field Geology
GEOL 899-83268, Master's Thesis

Spring 2015
GEOL 791-52275, Advanced Topics in Geology: Geochem&Tectonics
GEOL 791-66982, Advanced Structure for Petrol Systems
GEOL 791-70588, Advanced Topics in Geology: Induced Seismicity in Kansas
GEOL 891-56720, Special Studies in Geology
GEOL 899-56722, Master's Thesis

Fall 2014
GEOG 541-25832, Geomorphology
GEOG 541-25937, Geomorphology
GEOL 541-26087, Geomorphology
GEOL 541-26088, Geomorphology
GEOL 791-12397, Advanced Topics in Geology: Geochem&Tectonics
GEOL 891-16939, Special Studies in Geology
GEOL 899-16940, Master's Thesis

Summer 2014
GEOL 561-81167, Field Geology
GEOL 891-83646, Special Studies in Geology

Spring 2014
GEOL 391-57357, Special Studies in Geology
GEOL 562-52487, Structural Geology
GEOL 562-52488, Structural Geology
GEOL 562-57088, Structural Geology
GEOL 791-52492, Advanced Topics in Geology: Geochem&Tectonics
GEOL 899-57362, Master's Thesis

Fall 2013
GEOL 591-26801, Topics in Geology: Neotectonics
GEOL 791-12637, Advanced Topics in Geology: Geochem&Tectonics
GEOL 791-26819, Advanced Topics in Geology: Neotectonics
GEOL 899-17581, Master's Thesis

Summer 2013
GEOL 561-81282, Field Geology
GEOL 891-83987, Special Studies in Geology

Spring 2013
GEOL 791-52673, Advanced Topics in Geology: Geochem&Tectonics
GEOL 791-63382, Advanced Topics in Geology: Thrust Belts
GEOL 899-57949, Master's Thesis

Fall 2012
GEOL 899-18173, Master's Thesis
GEOL 999-18174, Doctoral Dissertation

Achievements of Distinction of Current/Former Students

Clay Campbell, MS Geology
Honor's Distinction
Andrew Herrs, MS Geology
Honor's Distinction
Richard Styron, PhD Geology
E. Haworth Award, 2012, To top graduating PhD student
Kurt Sundell, MS Geology
Honor's Distinction
Gabriel Veloza, MS Geology
Honors Distinction

University Service

University of Kansas

Guest Speaker
KU Mini college. (2014)

Guest Speaker (Appointed)
Lecturer, Science Day, KU Natural History Museum. (2014)

Judge
Graduate Research Competition. (April 2014)

Member
University Committee on Evaluation of Department Chairs and Directors. (2012 - 2014)

Member (Appointed)
University Core Curriculum Committee. (September 2014 - December 15, 2014)

Participant (Appointed)
KU Research Center Leadership Discussion. (2014)

Department Service

University of Kansas

Geology

Chair
Graduate Admissions. (2014 - 2018)

Chair (Appointed)
KU Core Committee. (2013 - 2014)

Colloquia Organizer
Department of Geology. (2006 - 2008)

Manager
Department of Geology Web Site. (2009 - 2013)

Member
Executive Committee. (2010 - Present)
LiDAR Committee. (2008 - Present)
Field Camp Committee. (2007 - Present)
Tracking Student Learning Committee. (2007 - Present)
Alumni Relations Committee. (2006 - Present)
Undergraduate Recruitment and Learning Committee. (2005 - Present)
Undergraduate Studies Committee. (2006 - 2013)
Department Self Study Committee. (2010)
Search Committee - Department Chair. (2009)
Search Committee – Glaciologist Position. (2008)
Adhoc Search Committee - Glaciologist Position. (2005)

Member (Appointed)
Graduate Research Committee. (2013 - 2014)

Moderator

G-Hawk Symposium. (2005)

Organizer
Tectonics Seminar. (2005)

Professional Service

Editor, Associate
Journal of Geophysical Research – Solid Earth (2019-)

Geosphere: Geological Society of America. (2009 - 2019)

Other Professional Service

Advisory Committee Member
(Appointed) Cyber-Infrastructure initiative (NSF) addressing needs in structural geology, Madison, WI. (March 14, 2015 - March 17, 2015)

Co-Convener
- From Oceanic Subduction to Inter-Continental Collision: Examples of Convergent Margin Processes in Non-Collisional and Collisional Settings, GSA Fall Meeting, Phoenix, 2019
- Linking crustal deformation at multiple temporal and spatial scales in the Himalayan-Tibetan collisional orogen. American Geophysical Union, New Orleans. 2017
- A top to bottom view of the dynamics of northern South America, AGU Spring meeting. (May 14, 2013 - May 17, 2013)
- Cenozoic Mountain Building in Asia and South America: Impact on Surface Processes, Erosion, Climate Change, and Deep Earth Processes. (sessions: oral (2), poster (1)) (2009)
- Dynamics of Orogenic Belts and Continental Plateaus, AGU Fall meeting. (sessions: oral (4) poster (2)) This session received the greatest number of submitted abstracts of any session within the Tectonophysics section of AGU (2006)

Participant
"Pacific Rim Subduction Workshop," Earthquake Research Institute, University of Tokyo. (November 17, 2012 - November 19, 2012)
"Planning research activities for the 2010 El Mayor-Cucapah earthquake," NSF and SCEC workshop. (September 12, 2010 - September 15, 2010)
"Future directions for NSF-sponsored geoscience research in the Himalaya/Tibet," NSF workshop. (June 11, 2010 - July 12, 2010)

Participant
(Appointed) KU Research Center Leadership Discussion. (2014)

Reviewer, Book Chapters
GSA Special Volume.
Recent Advances in Tectonics of Sedimentary Basins.
The Geological Society of London Special Publications.
GSA Books

Reviewer, Journals
American Journal of Science

Bulletin of the Seismological Society of America
Earth and Planetary Science Letters
Eos news articles
Elements
Geological Society of America Bulletin
Geology
Geophysical Journal International
Geophysical Research Letters
Geosphere
Journal of Asian Earth Sciences
Journal of Geophysical Research-Solid Earth
Lithosphere
Nature
Nature Geoscience
Tectonics
Tectonophysics

Reviewer, Proposals
NSF (2-4 per year): Career, Geomorphology, EarthScope, IES (formerly CD), Tectonics
ACS - Petroleum Research Fund
University of Houston internal grants (GEAR)
University of Hong Kong

Service Presentations

Taylor, M. *Dynamics of orogenic belts – An example from the Himalaya and Tibet*. KU-mini college, Lawrence Campus.

Taylor, M. (2006). Guest speaker, KU Alumni gathering, Houston, TX. (Invited)

Interviews

Magazines

"2015 Nepal Earthquake" *Science Magazine*.

Newspapers

"2015 Nepal Earthquake" *Nepal Newspaper*.

"KU Geologist says to expect more earthquakes in the future.".

Television

"2015 Nepal Earthquake".
KCTV5

"2015 Oklahoma earthquake" *KCTV5*.

Other Activity or Information

Local Media Coverage

Profiled for Lawrence Journal World, KU School of Journalism, University Daily Kansan