

CURRICULUM VITAE – BRIAN K. HORTON

Professor, Department of Geological Sciences
 Research Professor, Institute for Geophysics
 Jackson School of Geosciences
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Education

1998 Ph.D., Geosciences, University of Arizona
 1994 M.S., Earth Sciences, Montana State University
 1992 B.S. (with distinction), Geology, University of New Mexico

Professional Experience

2014 - Alexander Deussen Professor of Energy Resources, Department of Geological Sciences and Institute for Geophysics, Jackson School of Geosciences, University of Texas at Austin
 2012 - Professor (Department of Geological Sciences) and Research Professor (Institute for Geophysics), University of Texas at Austin
 2006 - 2012 Associate Professor (Department of Geological Sciences) and Associate Research Professor (Institute for Geophysics), University of Texas at Austin
 2001 - 2006 Assistant Professor, University of California Los Angeles
 1999 - 2001 Assistant Professor, Louisiana State University
 1998 - 1999 Postdoctoral Research Fellow, University of California Los Angeles
 1994 - 1998 Graduate Research Fellow and Teaching Assistant, University of Arizona
 1996 Exploration Geologist Intern, British Petroleum Exploration, Anchorage, Alaska
 1995 Exploration Geologist Intern, Amoco Production Company, Houston, Texas
 1992 - 1994 Graduate Research Fellow and Teaching Assistant, Montana State University
 1990 - 1992 Laboratory and Field Assistant (Hydrology, Paleomagnetism), University of New Mexico

Honors and Awards

2016 - 2017 Faculty Research Assignment (sabbatical research fellowship), UT-Austin
 2013 Outstanding Research Award, Institute for Geophysics, UT-Austin
 2012 - 2013 Faculty Research Assignment (sabbatical research fellowship), UT-Austin
 2011 Outstanding Research Award, Jackson School of Geosciences, UT-Austin
 2011 - 2013 Director's Circle of Excellence Awards (3), Institute for Geophysics, UT-Austin
 2010 Exceptional Reviewer, *Lithosphere*
 2007 Exceptional Reviewer, *Geological Society of America Bulletin*
 2006 - 2007 Humboldt Research Fellowship, Alexander von Humboldt Foundation, Germany
 2005 Fellow, Geological Society of America
 2004 Young Scientist Award, Donath Medal, Geological Society of America
 2004 Faculty Career Development Award, UCLA
 1998 - 1999 NSF Postdoctoral Research Fellowship
 1998 Outstanding Teaching Assistant, University of Arizona Department of Geosciences
 1998 Award for Meritorious Performance in Teaching, University of Arizona Foundation
 1993 - 1996 NSF Graduate Research Fellowship
 1993 Geological Society of America Outstanding Student Research Award
 1992 - 1993 Presidential Graduate Scholarship, Montana State University
 1992 NSF Graduate Research Fellowship, Honorable Mention
 1990 - 1992 Outstanding Geology Sophomore, Junior, Senior Awards, University of New Mexico
 1988 - 1992 Excel Scholarship, University of New Mexico

Research Interests

Tectonic signatures in the stratigraphic record
 Evolution of contractional orogenic belts and foreland, hinterland, and intermontane basins
 Initial mountain building and plateau construction in the Andes, Tibet, and Middle East
 Sedimentary geochronology, provenance and routing systems

Influence of tectonics and climate on erosion, sedimentation, and basin evolution
 Integration of geochronology, thermochronology, and paleoaltimetry with basin analysis
 Physical sedimentology of modern and ancient fluvial and alluvial-fan depositional systems
www.twitter.com/AndesTectonics
www.ResearcherID.com/rid/A-1804-2009

Research Grants

- 2016 - 2018 Mapping linkages between geophysical and biological diversity across space and time in the Andes, Amazon, and Chocó of Perú, Ecuador, and Colombia. *NASA Biodiversity Program*. Co-PIs: Sherilyn Fritz, 6 others.
- 2016 - 2017 Continental-scale drainage reversal of the Amazon River. *National Geographic Society Research and Exploration Grants Program*.
- 2015 - 2016 The dynamics of mountains, landscapes and climate in the distribution and generation of biodiversity of the Amazon/Andean forest. *NSF Frontiers in Earth System Dynamics (FESD)*. Co-PIs: Paul Baker, 3 others.
- 2015 - 2016 Deformational and thermal history of the Iranian Zagros fold-thrust belt (thermochronometric analysis of legacy samples). *ExxonMobil*. Co-PI: Daniel Stockli.
- 2015 - 2016 The Pampean desert: reconstructing the largest Quaternary sand sea in South America. *National Geographic Society*. PI: Edgardo Latrubesse.
- 2015 - 2018 Exhumation history of the Indian Lesser Himalaya: Discriminating tectonic models with implications for the Neogene isotopic composition of seawater. *NSF Tectonics*. Co-PIs: N. Ryan McKenzie, Daniel Stockli.
- 2014 - 2017 Rapid Miocene thrust propagation and wholesale basin partitioning along the central and southern Andes, Argentina. *NSF Tectonics*. Co-PI: N. Ryan McKenzie.
- 2014 - 2015 Exploring source-to-sink linkages between Laramide basins and the Gulf of Mexico. *Statoil*. Graduate Fellow: Meredith Bush.
- 2013 - 2015 The dynamics of mountains, landscapes and climate in the distribution and generation of biodiversity of the Amazon/Andean forest. *NSF Frontiers in Earth System Dynamics (FESD)*. Co-PIs: Paul Baker, 3 others.
- 2013 - 2016 Thrust belt response to rapid surface uplift of the Altiplano: A field test of Cordilleran cyclicality in southern Bolivia. *NSF Tectonics*. Co-PI: Sean Long.
- 2013 - 2015 Structural and hydrologic evaluation, Andean Cordillera and foreland basin, Colombia. *Pacific Rubiales Energy*. PI: Brad Wolaver.
- 2012 - 2014 Depositional and deformational history of the Zagros fold-thrust belt and foreland basin. *ExxonMobil*.
- 2012 - 2013 Late Cenozoic vertebrate paleontology and paleoenvironments of the Tibetan Plateau (China). Subcontract, *NSF Sedimentary Geology and Paleobiology*. PI: Xiaoming Wang.
- 2011 - 2012 New perspectives on the tectonic and paleoelevation history of the northern Andes. *Ecopetrol* (Instituto Colombiano del Petróleo). Co-PI: Timothy Shanahan.
- 2010 - 2013 Evaluating along-strike variations in surface uplift of the Andes: Constraints from molecular paleoaltimetry in the Eastern Cordillera of Colombia. *NSF Tectonics*. Co-PIs: Timothy Shanahan, Joel Saylor.
- 2010 - 2013 St. Elias Erosion-tectonics Project (STEEP). *NSF Continental Dynamics*. Co-PIs: Terry Pavlis, Sean Gulick, 12 others.
- 2009 - 2013 CAUGHT: Central Andean Uplift and the Geodynamics of High Topography. *NSF Continental Dynamics*. Co-PIs: Carmala Garzzone, 8 others.
- 2008 - 2010 Development of extensional systems in regions of hot, thick crust: Insight from Tibet. *NSF Tectonics*. Co-PIs: Michael Taylor, Paul Kapp.
- 2008 - 2010 Basin evolution and structural history of a regional transect through the Middle Magdalena Valley, Eastern Cordillera, and western Llanos basin of Colombia. *Ecopetrol (Instituto Colombiano del Petróleo)*.
- 2007 - 2012 How is rifting exhuming the youngest HP/UHP rocks on Earth? *NSF Continental Dynamics*. Co-PIs: Suzanne Baldwin, Paul Mann, 7 others.

- 2007 - 2010 Stratigraphic signatures of orogeny: Assessing the timing of initial Andean crustal shortening. *NSF Tectonics*. Co-PIs: Peter DeCelles, Barbara Carrapa.
- 2007 - 2008 Acquisition of a solid-state 193-nm laser-ablation system. *NSF Instrumentation and Facilities*. Co-PIs: William Carlson, 3 others.
- 2006 - 2007 Orographic barriers and climate change in the northern Puna plateau, central Andes, Argentina. *Humboldt Research Fellowship, Alexander von Humboldt Foundation*. Host: Manfred Strecker, Universität Potsdam, Germany.
- 2005 - 2008 Tectonic and climatic controls on rapid exhumation along the Altiplano-Eastern Cordillera boundary, Bolivia. *NSF Tectonics*.
- 2004 - 2007 Kinematic linkages among extrusion, fold-thrust shortening, and foreland basin evolution during early continental collision, Zagros Mountains, Iran. *NSF Tectonics*. Co-PI: Gary Axen.
- 2002 - 2004 Detachment faulting and basin development in a convergent setting: The Cordillera Blanca, Peru. *NSF Tectonics*. Co-PI: Brendan McNulty.
- 2001 - 2004 Investigation of timing and strain magnitude of Late Cretaceous-Tertiary thrusting in central and northern Tibet. *NSF Tectonics*. Co-PIs: An Yin, T. Mark Harrison.
- 2001 - 2003 Linking basin development and growth of continental plateaus: Controls on stratigraphic architecture in western China. *American Chemical Society (Petroleum Research Fund)*.
- 2000 - 2002 Paleogene sedimentary basin development in the Bolivian Altiplano and implications for initial mountain building in the central Andes. *NSF Sedimentary Geology*.
- 1999 - 2003 3-D kinematic evolution of the Charleston-Nebo salient, Sevier fold-thrust belt. *NSF Tectonics*. Co-PIs: Peter DeCelles, Kurt Constenius.
- 1999 - 2000 Late Cretaceous-Tertiary foreland basin evolution in the Eastern Cordillera of southern Bolivia. Subcontract, *NSF Tectonics*. PIs: Peter DeCelles, Peter Copeland.
- 1998 - 1999 Structural-stratigraphic evolution of the Fenghuo Shan and implications for crustal thickening and uplift of the Tibetan plateau, *NSF Postdoctoral Fellowship*. Sponsor: An Yin.

Professional Affiliations

American Geophysical Union, Geological Society of America (Fellow), SEPM (Society for Sedimentary Geology), International Association of Sedimentologists, American Association of Petroleum Geologists

Professional Activities

- 2015 Session co-chair, AGU fall meeting, *Building the Andes: from mantle geodynamics to surface processes*.
- 2014 Session co-chair, Geological Society of America annual meeting, *The geodynamics of flat slab subduction and its influence on upper plate deformation, magmatism, and basin evolution*.
- 2007 - present Member, Teresa Lozano Long Institute of Latin American Studies, UT-Austin
- 2006 - present Co-Supervisor of Paleomagnetism Laboratory, Jackson School of Geosciences, with Dr. Jack Holt
- 2014 Editor, *Toward an Improved Understanding of Uplift Mechanisms and the Elevation History of the Tibetan Plateau*, GSA Special Paper, v. 507, J. Nie, B.K. Horton, G.D. Hoke.
- 2009 - 2013 Editor, *Basin Research*
- 2008 - 2013 Editorial Board, *Lithosphere*
- 2012 Guest Editor, *Tectonic and climatic shaping of the northern Andes and southern Caribbean margin*, Journal of South American Earth Sciences, v. 39, G. Bayona, B.K. Horton, A. Reyes-Harker,
- 2010 Session co-chair, AAPG annual convention, *Regional interaction of tectonics and sedimentation: Examining relationships between deformation and basin evolution*
- 2009 Basin analysis short course, Ecopetrol, Instituto Colombiano del Petróleo
- 2009 Session co-chair, AGU fall meeting, *Cenozoic mountain building in Asia and South America: Impact on surface processes, erosion, climate change, and deep Earth processes*
- 2008 Basin analysis short course, Universidad Industrial de Santander, Bucaramanga, Colombia
- 2007 Session co-chair, AAPG annual convention, *Tectonic controls on sedimentation*
- 2004 - 2006 Member, technical committee, GSA Special Conference, April 2006, Mendoza, Argentina, *Backbone of the Americas from Patagonia to Alaska*
- 2005 Panel member, NSF Tectonics, Earth Sciences Division
- 2005 Session co-chair, GSA annual meeting, *Orogenic plateaus from top to bottom*
- 2002 - 2004 Member/chair, nominations committee for division president, GSA Sedimentary Geology Division
- 2002 Session co-chair, AGU meeting, *Tectonics and structure of Tibet and China*

- 2001 Session co-chair, AGU fall meeting, *Andean tectonics: Subduction, deformation, and volcanism*
- 2001 Judge, Earth & Space Sciences Student Organization Symposium, UCLA
- 2001 Judge, Outstanding Student Presentation Award, AGU Fall meeting
- 1995 Field trip co-leader, GSA Rocky Mountain section meeting, *Sedimentology and tectonics of the Bannack-McKnight Canyon-Red Butte area, southwest Montana: New perspectives on the Beaverhead Group and Sevier orogenic belt*
- 2000 - present Reviewer of proposals to National Science Foundation, American Chemical Society, NASA, European Science Foundation, National Geographic Society, Natural Environmental Research Council (UK), German Science Foundation, Netherlands Organization for Scientific Research, Swiss National Science Foundations, Czech Science Foundation, National Fund for Scientific and Technological Research (Chile), and other organizations.
- 2000 - present Reviewer of manuscripts submitted to *Andean Geology, Basin Research, Earth and Planetary Science Letters, Earth-Science Reviews, Geological Society of America Bulletin, GSA special publications, Geological Magazine, Geology, Geological Society of London special publication, Geosphere, International Journal of Earth Sciences, Journal of Asian Earth Sciences, Journal of Geology, Journal of Geophysical Research, Journal of Sedimentary Research, Journal of South American Earth Sciences, Lithosphere, Marine and Petroleum Geology, Nature Geoscience, Science, Sedimentary Geology, Sedimentology, Tectonics, Tectonophysics, Terra Nova.*

Invited Lectures

- 2016 Yachay Tech University, School of Geological Sciences, Urcuquí, Ecuador
University of Texas at Austin, Department of Geological Sciences
Servicio Geológico Colombiano, 100 Years of Scientific Production, Bogotá, Colombia
- 2015 Escuela Politécnica Nacional, Facultad de Geología y Petróleos, Quito, Ecuador
Duke University, Nicholas School of the Environment
- 2014 Yachay Tech University, Urcuquí, Ecuador
University of Houston, Department of Earth and Atmospheric Sciences
Pacific Rubiales Energy, Bogotá, Colombia
- 2013 Hocol Petroleum Company, Bogotá, Colombia
University of Arizona, Department of Geosciences
ExxonMobil Exploration Company, Colombia Operations Team, Houston, Texas
Research School of Arid Environment and Climate Change, Lanzhou University, Lanzhou, China
Escuela Politécnica Nacional, Instituto de Ciencias Biológicas, Quito, Ecuador
- 2012 Duke University, National Evolutionary Synthesis Center
- 2011 University of Texas at Austin, Department of Geological Sciences (2)
Petro Matad, Ulaanbaatar, Mongolia
- 2010 University of North Carolina, Department of Geological Sciences
University of Texas at Austin, Institute for Geophysics
- 2009 Ecopetrol, Instituto Colombiano del Petróleo, Bucaramanga, Colombia
- 2008 Universidad Industrial de Santander, Bucaramanga, Colombia
University of Wyoming, Department of Geology and Geophysics
- 2007 Instituto Asociación Colombiana de Geólogos y Geofísicos del Petróleo, Bogotá, Colombia
Hocol Petroleum Company, Bogotá, Colombia
Ecopetrol, Instituto Colombiano del Petróleo, Bucaramanga, Colombia
University of Edinburgh, School of Geosciences, Scotland, UK
Universität Potsdam, Department of Geosciences, Germany
Friedrich Schiller University of Jena, Department of Geosciences, Germany
- 2006 Universidad Mayor de San Andrés, Instituto de Investigaciones Geológicas, La Paz, Bolivia
UCLA, Department of Earth & Space Sciences, Tectonics Seminar
University of Texas at Austin, Department of Geological Sciences
University of Texas at Austin, Institute for Geophysics
- 2005 Stanford University, Department of Geological and Environmental Sciences
University of Oregon, Department of Geological Sciences
Montana State University, Department of Earth Sciences
University of Kansas, Department of Geology

- 2004 UCLA, Department of Earth & Space Sciences, Departmental Colloquium
Oregon State University, Department of Geosciences
- 2003 California Institute of Technology, Division of Geological and Planetary Sciences
University of New Mexico, Department of Earth and Planetary Sciences
California State University Northridge, Department of Geological Sciences
- 2002 Purdue University, Department of Earth and Atmospheric Sciences
Massachusetts Institute of Technology, Department of Earth, Atmospheric, and Planetary Sciences
University of Southern California, Department of Earth Sciences
UCLA, Department of Earth & Space Sciences, Tectonics Seminar
- 2000 UCLA, Department of Earth & Space Sciences (2)
- 1999 Northwestern University, Department of Geological Sciences
University of Houston, Department of Geosciences
- 1998 Rice University, Department of Earth Sciences
Lehigh University, Department of Earth and Environmental Sciences (2)
Case Western Reserve University, Department of Geological Sciences
Louisiana State University, Department of Geology & Geophysics

Outreach Activities

- 2015 - present Collaborative research agreement with Escuela Politécnica Nacional, Facultad de Geología y Petroleos, Quito, Ecuador: “Levantamiento de los Andes y los cambios en el origen y la evolucion biológica en los Andes y la Amazonia,” including field and laboratory research.
- 2013 - present Collaborative research agreement with Universidad Mayor de San Andrés, (UMSA), La Paz, Bolivia, including field training, collaborative research, and international exchange visits with UMSA professors and advanced geology students.
- 2011 - present Presenter, “Field research and travel safety” lecture (2 hrs) in required graduate course “Supervised Teaching in Geological Sciences” (GEO 298T), ~75 students/yr, UT-Austin.
- 2007 - present Member, Teresa Lozano Long Institute of Latin American Studies, UT-Austin (www.utexas.edu/cola/insts/llilas).
- 2013 Panelist and presenter, “Introduction to Graduate School Culture, Professors’ Expectations, and Working with Advisors” colloquium, UT International Office, Academic English Program (<http://world.utexas.edu/esl/programs/aep>), 8 week summer program for ~80 ESL students.
- 2009 Field-trip leader, GeoFORCE Texas (www.jsu.utexas.edu/geoforce), an outreach program at UT-Austin that encourages underrepresented Latino and African-American students to pursue STEM careers.
- 2008 - 2009 Faculty sponsor and mentor, UT Graduate School Diversity Mentoring Fellowship (www.utexas.edu/ogs/faculty/mentoring.html) to recruit underrepresented students.
- 2004 - 2006 Mentor and science technical advisor to graduate students integrating science and technology in their screenwriting and directing, Alfred P. Sloan Foundation Fellowship Program (www.sloan.org), UCLA Department of Film and Television.
- 2004 - 2006 Science-fair consultant for Mathematics Engineering Science Achievement (www.mesa.ucop.edu), UCLA Center for Excellence in Engineering and Diversity program for underrepresented groups (minorities, poverty line, single-parent home), Emerson middle school, Los Angeles.
- 2003 - 2004 Speaker and field-trip leader, Center for Excellence in Education (www.cee.org), Role Models and Leaders Project: encourages disadvantaged high-school students to pursue higher education and careers in science and technology.
- 2002 - 2006 Collaborative research agreement with Sergeotecmin (Bolivian geological survey), La Paz, Bolivia.

University Service, UT-Austin

- 2015 - 2017 Chair, Awards Committee, Department of Geological Sciences
- 2014 - 2017 Endowment Committee, Jackson School of Geosciences
- 2014 - 2015 Faculty Comprehensive Periodic (Post-Tenure) Review Evaluation Committee (7 Professors)
- 2014 - 2015 UT Institute for Geophysics: Joint Appointments Committee
- 2014 - 2015 Faculty Evaluation Committee, Assistant Professor tenure review
- 2014 - 2015 Research Scientist Search Committee, Clastic Sedimentology, Bureau of Economic Geology
- 2013 - 2014 Chair, Faculty Evaluation Committee, Research Associate Professor promotion review
- 2013 - 2014 Faculty Evaluation Committee, Assistant Professor tenure review
- 2013 - 2014 Graduate Admissions and Support Committee, Jackson School of Geosciences

2006 - present Co-Supervisor of Paleomagnetism Laboratory, Jackson School of Geosciences, with Dr. Jack Holt
 2012 Research Scientist Search Committee, Multicollector ICP-MS facility manager
 2012 Faculty Evaluation Committee, Assistant Professor review
 2010 - 2011 Chair, Faculty Search Committee, Structural Geology and Tectonics
 2010 - 2011 Research Scientist Search Committee, Plate Deformation
 2009 - 2011 Chair, Sedimentology-Stratigraphy Education and Research Group, Jackson School of Geosciences
 2009 - 2011 Graduate Admissions and Support Committee, Jackson School of Geosciences
 2009 - 2011 Faculty Search Committee, Structure-Tectonics and Geochronology
 2009 - 2010 Research Scientist Search Committee, Multicollector ICP-MS facility manager
 2008 - 2009 Faculty Search Committee, Crust-Mantle-Core position
 2008 - 2009 Faculty Search Committee, Structure-Tectonics and Geochronology
 2008 - 2009 Ad Hoc Committee, Personnel Action (Structure-Tectonics)
 2007 - 2010 Opportunity Hires Committee
 2007 - 2008 Internal Change of Appointment Committee

Courses Taught

2006 - present Graduate courses, UT-Austin: Sedimentary Basin Analysis; Sediment Provenance (new); Tectonic and Climatic Interactions in Foreland Basins (new); Tectonics and Climate of South America (new); Dynamic Field Stratigraphy: Andes (new); Fundamentals of Paleomagnetism (new).
 2006 - present Undergraduate courses, UT-Austin: Introduction to Field and Stratigraphic Methods; Sedimentary Rocks; Field Geology (summer); Tectonics and Climate of South America (new); Fundamentals of Paleomagnetism (new).
 1999 - 2006 Graduate courses, UCLA, LSU: Advanced Physical Sedimentology (new), Basin Analysis, Field Geology for Graduate Students (summer).
 1999 - 2006 Undergraduate courses, UCLA, LSU: Advanced Sedimentology (new), Basin Analysis, Advanced Field Geology (summer field camp), Historical and Regional Geology, Sedimentary Petrology.
 1999 - 2006 Seminars, UCLA, LSU: Arid Land Sedimentology (new), Field Trip: Geological Transect Across the Central Andes (new), Mountain Building Processes (new), Tectonics and Sedimentation (new), Thrust Belts and Foreland Basins (new).

Field Trip Leader

2016 Sediment Provenance: Cordilleran foreland basin and fold-thrust belt, Utah (1 week)
 2015 Sedimentary Basin Analysis: San Juan and Mendoza provinces, Argentina (2 weeks)
 2015 Introduction to Field and Stratigraphic Methods: Austin, Texas region (6 one-day trips)
 2014 Tectonic and Climatic Interactions in Foreland Basins: New Mexico-Colorado (1 week)
 2014 Dynamic Field Stratigraphy: Andes: Neuquén and Mendoza provinces, Argentina (2 weeks)
 2012 Sedimentary Basin Analysis: California, Nevada, Utah (1 week)
 2012 Introduction to Field and Stratigraphic Methods: Austin, Texas region (6 one-day trips)
 2011 Tectonic and Climatic Interactions in Foreland Basins: Utah (1 week)
 2011 Introduction to Field and Stratigraphic Methods: Austin, Texas region (6 one-day trips)
 2010 Introduction to Field and Stratigraphic Methods: Austin, Texas region (6 one-day trips)
 2008 Introduction to Field and Stratigraphic Methods: Austin, Texas region (9 one-day trips)
 2006 Advanced Field Geology: Nevada, Utah (5 weeks)
 2006 Seminar: Sedimentology: Mojave Desert, California (3 days)
 2005 Advanced Field Geology: Nevada, Utah (5 weeks)
 2005 Sedimentary Petrology: southern California (4 one-day trips)
 2005 Historical and Regional Geology: California, Nevada, Utah (3 days)
 2004 Advanced Field Geology: Nevada, Utah (5 weeks)
 2004 Basin Analysis: southern California (2 one-day trips)
 2004 Sedimentary Petrology: southern California (4 one-day trips)
 2004 Advanced Physical Sedimentology: Mojave Desert, California (3 days)
 2003 Field Seminar: Geological Transect, Central Andean Plateau: Bolivia (3 weeks)
 2003 Advanced Field Geology: Nevada, Utah (5 weeks)
 2003 Seminar: Paleotectonics: Thrust belts and foreland basins: Utah (1 week)
 2002 Advanced Field Geology: Nevada, Utah (5 weeks)
 2002 Field Geology for Graduate Students: California, Nevada, Utah (1 week)
 2002 Basin Analysis: southern California (2 one-day trips)

2001	Special Topics: Tectonics and Sedimentation: California (1 week)
2000	Advanced Sedimentology: Baton Rouge, Louisiana region (2 one-day trips)
2000	Special Topics: Arid Land Sedimentology (1 one-day trip)
1999	Basin Analysis: Baton Rouge, Louisiana region (1 one-day trip)

Theses and Dissertations Supervised

- [25] Ramirez, S.G., 2016, *Interactions between sedimentation and deformation in the Kumano forearc basin (Japan) and the Malargue foreland basin (Argentina)*: Ph.D. dissertation, UT-Austin, 251 p.
- [24] Koshnaw, R.I.M., 2016, *Neogene history of exhumation and deposition in the Zagors fold-thrust belt and foreland basin, Kurdistan region of Iraq*: Ph.D. dissertation, UT-Austin, 224 p.
- [23] Bush, M.A., 2016, *Stratigraphic signatures of convergent orogenesis from the plate interior: Studies from Tibet and the southern Rocky Mountains*: Ph.D. dissertation, UT-Austin, 201 p.
- [22] Perez, N.D., 2015, *Cenozoic deformation history of the Andean plateau in southern Peru: Stratigraphic, structural, and geochronologic constraints*: Ph.D. dissertation, UT-Austin, 287 p.
- [21] Anderson, V.J., 2015, *Uplift and exhumation of the Eastern Cordillera of Colombia and its interactions with climate*: Ph.D. dissertation, UT-Austin, 185 p.
- [20] Calle, A.Z., 2013, *Neogene sedimentation and provenance record of the Subandean zone and Chaco foreland basin, southern Bolivia*: M.S. thesis, UT-Austin, 124 p.
- [19] Levina, M., 2013, *Cenozoic sedimentation and exhumation of the foreland basin system in the Precordillera fold-thrust belt (31-32°S), southern central Andes, Argentina*: M.S. thesis, UT-Austin, 100 p.
- [18] Fitch, J.D., 2012, *Cenozoic evolution of a fragmented foreland basin, Altiplano plateau, southern Peru*: M.S. thesis, UT-Austin, 97 p.
- [17] Woodruff, W.H., Jr., 2011, *Late Cenozoic growth and exhumation of the northern Lunggar extensional basin, west-central Tibetan plateau*: M.S. thesis, UT-Austin, 89 p.
- [16] Sanchez, C.J., 2011, *Cenozoic structural evolution of the eastern margin of the Middle Magdalena Valley basin, Colombia: Integration of structural restorations, low-temperature thermochronology, and sandstone petrography*: M.S. thesis, UT-Austin, 114 p.
- [15] Siks, B.C., 2011, *Sedimentary, structural, and provenance record of the Cianzo basin, Puna plateau-Eastern Cordillera boundary, NW Argentina*: M.S. thesis, UT-Austin, 97 p.
- [14] Bande, A., 2010, *Foreland basin evolution and exhumation along the deformation front of the Eastern Cordillera, northern Andes, Colombia*: M.S. thesis, UT-Austin, 106 p.
- [13] Moreno, C.J., 2010, *Paleogene sedimentation patterns and basin evolution during Andean orogenesis, Middle Magdalena Valley basin, Colombia*: M.S. thesis, UT-Austin, 49 p.
- [12] Cardona, P.A., 2009, *Depositional history of the Taranaki Basin, New Zealand: Linking sediment accumulation and subsidence rates to tectonic processes*: M.S. thesis, UT-Austin, 106 p.
- [11] Mackey, G.N., 2009, *Provenance of the south Texas Paleocene-Eocene Wilcox Group, western Gulf of Mexico basin: Insights from sandstone modal compositions and detrital zircon geochronology*: M.S. thesis, UT-Austin, 155 p.
- [10] Perez, N.D., 2009, *Late Miocene sedimentation in the central Andean foreland basin, southern Bolivia: Constraints from magnetostratigraphy*: Undergraduate Honors thesis, UT-Austin, 58 p.
- [9] Giovanni, M.K., 2007, *Tectonic and thermal evolution of the Cordillera Blanca detachment system, Peruvian Andes: Implications for normal faulting in a contractional orogen*: Ph.D. dissertation, UCLA, 236 p.
- [8] Mosolf, J.G., 2007, *The detrital record of rapid Neogene exhumation of the Cordillera Real, Bolivia*: M.S. thesis, UCLA, 65 p.
- [7] Murray, B.P., 2007, *Sedimentology, provenance, and basin development of the synorogenic Peñas and Aranjuez formations, northern Altiplano, Bolivia*: M.S. thesis, UCLA, 68 p.
- [6] Gavillot, Y.G., 2007, *Tectonics of the High Zagros fold-thrust belt, Iran: Constraints on spatial and temporal distribution of thrust activity using (U-Th)/He thermochronometry*: M.S. thesis, UCLA, 53 p.
- [5] Shirvell, C.R., 2006, *Pliocene exhumation along the west Salton detachment system and tectonic evolution of the Fish Creek-Vallecito supradetachment basin, Salton Trough, southern California*: M.S. thesis, UCLA, 133 p.
- [4] Bourke, M.B., 2005, *Sedimentological and paleoenvironmental analysis of middle Eocene strata of the southeastern Kishenehn basin, northwestern Montana*: M.S. thesis, UCLA, 124 p.
- [3] Gillis, R.J., 2005, *Two-phase exhumation of the Cordillera Real, Eastern Cordillera, Bolivia: Inferences from thermochronology and regional structural mapping*: M.S. thesis, UCLA, 150 p.

- [2] Fink, R.J., 2002, *Sedimentology and stratigraphy of the Upper Cretaceous-Paleocene El Molino Formation, Eastern Cordillera and Altiplano, central Andes, Bolivia: Implications for the tectonic development of the central Andes*: M.S. thesis, Louisiana State University, 116 p.
- [1] Hampton, B.A., 2002, *Early-middle Tertiary deposition in the Corque syncline, Altiplano plateau, Bolivia*: M.S. thesis, Louisiana State University, 124 p.

Graduate Students: degree, completion, research field area

Gutierrez, Evelin Gabriela, M.S., expected 2018, Ecuador
 Capaldi, Tomas, Ph.D., expected 2019, Argentina
 George, Sarah, Ph.D., expected 2019, Peru-Ecuador
 Jackson, Lily, Ph.D., expected 2019, Peru
 Mackaman-Lofland, Chelsea, Ph.D., expected 2019, Argentina
 Calle, Amanda, Ph.D. expected 2018, Bolivia
 Ramirez, Sebastian, Ph.D. 2016, UT, now at Shell Oil Company, Houston, Texas
 Koshnaw (Mohammed), Renas, Ph.D. 2016, UT, now at Texas Oil and Gas Institute, Houston, Texas
 Bush, Meredith, Ph.D. 2016, UT, now Visiting Assistant Professor, Colorado College
 Perez, Nicholas, Ph.D. 2015, UT, now Assistant Professor, Texas A&M University
 Anderson, Veronica, Ph.D. 2015, UT, now at Hess Corporation, Houston, Texas
 Levina, Mariya, M.S. 2013, UT, now with AmeriCorps, Santa Barbara, California
 Calle, Amanda, M.S. 2013, UT, now Ph.D. student at University of Texas at Austin
 Fitch, Justin, M.S. 2012, UT, now at Southwestern Energy, Houston, Texas
 Woodruff, William, Jr., M.S. 2011, UT, now at Hunt Oil Company, Dallas, Texas
 Sanchez, Javier, M.S. 2011, UT, now Ph.D. student at University of Houston
 Siks, Benjamin, M.S. 2011, UT, now at BP, Anchorage, Alaska
 Bande, Alejandro, M.S. 2010, UT, now Ph.D. student at Universität Potsdam, Germany, now at Tecpetrol, Buenos Aires, Argentina
 Moreno, Christopher, M.S. 2010, UT, now at BHP Billiton Petroleum, Houston, Texas
 Cardona, Paola, M.S. 2009, UT (co-supervised), now at Ecopetrol, Colombia
 Mackey, Glen, M.S. 2009, UT (co-supervised), now Ph.D. student at University of Utah
 Perez, Nicholas, B.S. 2009, UT, Ph.D. 2015, UT, now Assistant Professor, Texas A&M University
 Gavillot, Yann, M.S. 2007, UCLA (co-supervised), now Ph.D. student at Oregon State University
 Giovanni, Melissa, Ph.D. 2007, UCLA, now Visiting Assistant Professor, University of Nevada Las Vegas
 Mosolf, Jesse, M.S. 2007, UCLA. Ph.D. 2013, UC Santa Barbara, now at Montana Bureau of Mines & Geology
 Murray, Bryan, M.S. 2007, UCLA. Ph.D. 2014, UC Santa Barbara, now Assistant Professor, California Polytechnic State University, Pomona
 (Shirvell) Belgarde, Catherine, M.S. 2006, UCLA (co-supervised), now at BHP Billiton Petroleum, Houston, Texas
 Bourke, Matthew, M.S. 2005, UCLA, now at ExxonMobil, Melbourne, Australia
 Gillis, Robert, M.S. 2005, UCLA, now at Alaska Division of Geological and Geophysical Surveys
 Fink, Richard, M.S. 2002, LSU, now at ExxonMobil, Houston, Texas
 Hampton, Brian, M.S. 2002, LSU. Ph.D. 2006, Purdue University, now Assistant Professor, New Mexico State University

Postdoctoral Scholars

McKenzie, N. Ryan, 2012 - 2014, UT, paleobiology, basin analysis, geochronology.
 now Assistant Professor, University of Hong Kong.

Cassel, Elizabeth, 2011 - 2013, UT, paleoaltimetry, basin analysis, geochronology.
 now Assistant Professor, University of Idaho.

Saylor, Joel, 2008 - 2012, UT, basin analysis, geo/thermochronology, paleoaltimetry.
 now Assistant Professor, University of Houston.

Parra, Mauricio, 2009 - 2010, UT, geo/thermochronology, basin analysis.
 now Research Scientist, Institute of Energy and Environment, University of São Paulo, Brazil.

Nie, Junsheng, 2008 - 2010, UT, paleomagnetism, climate change, geochronology.
 now Assistant Professor, Lanzhou University, Lanzhou, China.

Zhou, Jiangyu, 2003, UCLA, sedimentology, basin analysis.
 now Professor, China University of Geosciences, Wuhan, China.

Dupont-Nivet, Guillaume, 2002 - 2003, UCLA, paleomagnetism, basin analysis.
 now Senior Research Scientist, Université de Rennes, France.

Peer-Reviewed Publications (underlined = graduate student; * = postdoctoral scholar)

85 articles published (21 first author; 32 second author; 32 other); (includes 29 student first-authored articles and 12 postdoc first-authored articles). Researcher ID = A-1804-2009

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