**BRIAN K. HORTON Curriculum Vitae (September 2007)**

**Address** Department of Geological Sciences and Institute for Geophysics, Jackson School of Geosciences
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**Education**

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

**Personal Data** Born 23 March, 1970, Harbor City, California. U.S. citizen. Married, 1 child.

**Professional Positions**

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| 2006-present | Associate Professor, University of Texas at Austin, Department of Geological Sciences |
| 2006-present | Associate Research Professor, University of Texas at Austin, Institute for Geophysics |
| 2006-2007 | Research Fellow, Universität Potsdam, Institut für Geowissenschaften, Potsdam, Germany. |
| 2001-2006 | Assistant Professor, University of California Los Angeles (UCLA), Dept. of Earth & Space Sciences |
| 1999-2001 | Assistant Professor, Louisiana State University (LSU), Department of Geology and Geophysics |
| 1998-1999 | Postdoctoral Research Fellow, Univ. of California Los Angeles, Dept. of Earth and Space Sciences |
| 1996 | Geologist, British Petroleum Exploration, Anchorage, Alaska (summer internship) |
| 1995 | Geologist, Amoco Production Company, Houston, Texas (summer internship) |

**Honors and Awards**

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| 2007 | Exceptional reviewer recognition, Geological Society of America Bulletin: GSA Today, v. 17 (2) |
| 2006-2007 | Alexander von Humboldt Foundation (Germany) Research Fellowship |
| 2005 | Fellow, Geological Society of America |
| 2004 | Young Scientist Award (Donath Medal), Geological Society of America |
| 2004 | Faculty Career Development Award, UCLA |
| 1998 | National Science Foundation Postdoctoral Research Fellowship |
| 1997-1998 | Outstanding Teaching Assistant, University of Arizona Dept. of Geosciences |
| 1997-1998 | Award for Meritorious Performance in Teaching, University of Arizona Foundation |
| 1993-1996 | National Science Foundation Graduate Research Fellowship |
| 1993 | Geological Society of America Outstanding Student Research Award |
| 1992 | National Science Foundation Graduate Research Fellowship, Honorable Mention |

**Graduate and Postdoctoral Research Supervision**

Melissa Giovanni, Ph.D. 2007, UCLA, now Assistant Professor, University of Calgary.
Jesse Mosolf, M.S. 2007, UCLA, now in Ph.D. program, UC Santa Barbara.
Bryan Murray, M.S. 2007, UCLA, now in Ph.D. program, UC Santa Barbara.
Yann Gavillot, M.S. 2007, UCLA.
Matthew Bourke , M.S. 2005, UCLA, now at ExxonMobil.
Robert Gillis, M.S. 2005, UCLA, now at Alaska Division of Geological & Geophysical Surveys.
Joseph Minervini, Ph.D. program, UCLA, now at ExxonMobil.
Guillaume Dupont-Nivet, Postdoctoral Associate 2002-03, now Marie Curie Fellow, Paleomagnetic Laboratory, Utrecht University, The Netherlands.
Zhou Jiangyu, Postdoctoral Associate 2003, now Assistant Professor, China University of Geosciences, Faculty of Earth Sciences, Wuhan, China.
Richard Fink, M.S. 2002, Louisiana State University, now at ExxonMobil.
Brian Hampton, M.S. 2002, Louisiana State University, now Assistant Professor at Michigan State University.

**Graduate Thesis Supervision**

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.
Mosolf, J.G., 2007, *The detrital record of rapid Neogene exhumation of the Cordillera Real, Bolivia*: M.S. thesis, UCLA, 67 p.
Murray, B.P., 2007 *Sedimentology, provenance, and basin development of the synorogenic Peñas and Aranjuez formations, northern Altiplano, Bolivia:* M.S. thesis, UCLA, 72 p.
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.
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.

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.

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.

Hampton, B.A., 2002, *Early-middle Tertiary deposition in the Corque syncline, Altiplano plateau, Bolivia*: M.S. thesis, Louisiana State University, 124 p.

**Professional Affiliations**

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

**Professional Service**

2007 Session chair, American Association of Petroleum Geologists annual convention, Theme II (Stratigraphy and Sedimentology) Session: Tectonic Controls on Sedimentation. Co-sponsored by AAPG and SEPM (Society for Sedimentary Geology). Co-convened with Emery Goodman.

2004-06 Member, Technical Program Committee, Geological Society of America Special Conference: "Backbone of the Americas from Patagonia to Alaska", April 2006, Mendoza, Argentina.

2005, Panelist, National Science Foundation Earth Sciences Division, Tectonics Program.

2005 Session chair, Geological Society of America annual meeting, Topical Session T135: Orogenic Plateaus from Top to Bottom. Co-sponsored by GSA Structural Geology and Tectonics Division, GSA Geophysics Division, and GSA Sedimentary Geology Division. Co-convened with Bradley Ritts.

2004, Proposal Support, request to National Science Foundation from the Geological Society of America (GSA) to support the GSA Graduate Research Grants Program.

2004, Member, Nominations Committee. Geological Society of America Sedimentary Geology Division.

2003, Chair, Nominations Committee. Geological Society of America Sedimentary Geology Division.

2002 Session chair, American Geophysical Union fall meeting, Tectonophysics session T51B: Tectonics and Structure of Tibet and China.

2002, Member, Nominations Committee. Geological Society of America Sedimentary Geology Division.

2001 Session chair, American Geophysical Union fall meeting, Tectonophysics session T31A: Andean Tectonics: Subduction, Deformation, and Volcanism.

1995, Field trip leader: Geological Society of America Rocky Mountain section meeting (1995) field-trip co-leader (with J.G. Schmitt, J.C. Haley, D.R. Lageson, and P.A. Azevedo), Trip title: Sedimentology and tectonics of the Bannack-McKnight Canyon-Red Butte area, southwest Montana: New perspectives on the Beaverhead Group and Sevier orogenic belt.

**Invited Lectures at Universities and Institutes**

2007 Ecopetrol: Instituto Colombiano del Petróleo, Bucaramanga, Colombia
Instituto Asociación Colombiana de Geologos y Geofísicos del Petroleo, Bogotá, Colombia
Hocol Petroleum Company, Bogotá, Colombia
School of Geosciences, University of Edinburgh, Scotland, U.K.
Department of Geosciences, University of Potsdam, Germany
Department of Geosciences, Friedrich Schiller University of Jena, Germany

2006 Instituto de Investigaciones Geológicas, Universidad Mayor de San Andrés, La Paz, Bolivia
Department of Earth and Space Sciences, UCLA (Tectonics Seminar)
Department of Geological Sciences, University of Texas at Austin
Institute for Geophysics, University of Texas at Austin

2005 Department of Geological and Environmental Sciences, Stanford University
Department of Geological Sciences, University of Oregon
Department of Earth Sciences, Montana State University
Department of Geology, University of Kansas

2004 Department of Earth & Space Sciences, UCLA (Departmental Colloquium)
Department of Geosciences, Oregon State University.

2003 Division of Geological and Planetary Sciences, California Institute of Technology
Department of Earth and Planetary Sciences, University of New Mexico
Department of Geological Sciences, California State University Northridge

2002 Department of Earth and Atmospheric Sciences, Purdue University
Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology
Department of Earth Sciences, University of Southern California
Department of Earth & Space Sciences, UCLA (Tectonics Seminar)

2000 Department of Earth & Space Sciences, UCLA (2)
1999 Department of Geological Sciences, Northwestern University
Department of Geosciences, University of Houston
1998 Department of Earth Sciences, Rice University
Department of Earth and Environmental Sciences, Lehigh University (2)
Department of Geological Sciences, Case Western Reserve University
Department of Geology & Geophysics, Louisiana State University

**Invited Abstracts at National and International Meetings**

2006 American Geophysical Union Fall Meeting: *"Dynamics of Orogenic Belts and Continental Plateaus"* (Oral Session T44).
2005 Geological Society of America Annual Meeting: *"Research Opportunities, New Frontiers, and the Questioning of Paradigms in Structural Geology and Tectonics: Celebrating the 25th Anniversary of the GSA Structural Geology and Tectonics Division"* (Pardee Keynote Symposium P2).
2005 Geological Society of America Annual Meeting: *"Recent Advances in the Application of Sedimentology and Stratigraphy to Tectonic Problems"* (Topical Session T68).
2005 American Association of Petroleum Geologists Annual Convention : *"Evolution of Foreland Basins"* (Special Session 16).
2004 American Geophysical Union Fall Meeting: *"The Detrital Record of Orogenic Evolution"* (Oral Session T08)
Geological Society of America Annual Meeting: *"Thrust Belts and Plateaus: The Anatomy of Convergent Systems"* (Oral Session T88).
2003 Geological Society of America Annual Meeting: *"Erosion, Exhumation, and Uplift: Complex Interactions and Feedback Mechanisms Between Tectonics and Geomorphology"* (Oral Session T101).
Geological Society of America Annual Meeting: *"Structure and Stratigraphy: New Perspectives on Lithotectonic Processes"* (Oral Session T142).
American Geophysical Union Fall Meeting: *"Subduction and Lithospheric Deformation in South America"* (Oral Session S41F-04).

**Research Grants**

2007-2012 *Collaborative Research: How Is Rifting Exhuming the Youngest HP/UHP Rocks on Earth?* National Science Foundation (B. Horton, P. Mann), $334,353.

2007-2010 *Collaborative Research: Stratigraphic Signatures of Orogeny: Assessing the Timing of Initial Andean Crustal Shortening,* National Science Foundation, $128,931.

2007-2008 *Acquisition of a Solid-State 193-nm Laser-Ablation System,* National Science Foundation (W. Carlson, J. Gardner, B. Horton, J. Lassiter), $97,500.

2005-2008 *Tectonic and climatic controls on rapid exhumation along the Altiplano-Eastern Cordillera boundary, Bolivia,* National Science Foundation, $172,667.

2004-2006 *Kinematic linkages among extrusion, fold-thrust shortening, and foreland basin evolution during early continental collision, Zagros Mountains, Iran,* National Science Foundation (G. Axen, B. Horton), $387,621.

2002-2004 *Collaborative Research: Detachment faulting and basin development in a convergent setting: The Cordillera Blanca, Peru,* National Science Foundation, $94,000.

2001-2004 *Collaborative Research: Investigation of timing and strain magnitude of Late Cretaceous-Teritary thrusting in central and northern Tibet,* National Science Foundation (T.M. Harrison, B. Horton, A. Yin), $248,466.

2001-2003 *Linking basin development and growth of continental plateaus: Controls on stratigraphic architecture in western China,* American Chemical Society (Petroleum Research Fund), $25,000.

2000-2002 *Paleogene sedimentary basin development in the Bolivian Altiplano and implications for initial mountain building in the central Andes,* National Science Foundation, $98,267.

1999-2003 *Collaborative Research: 3-D kinematic evolution of the Charleston-Nebo salient, Sevier fold-thrust belt,* National Science Foundation, $48,291.

1999-2000 *Collaborative Research: Late Cretaceous-Tertiary foreland basin evolution in the Eastern Cordillera of southern Bolivia,* National Science Foundation (Subcontract), $9,997.

1998-1999 *Structural-stratigraphic evolution of the Fenghuo Shan and implications for crustal thickening and uplift of the Tibetan plateau,* National Science Foundation (Postdoctoral Fellowship: 2 years awarded, 1 year accepted), ~$90,000.

**Articles in peer-reviewed journals**

* = student author

23 *Guest, B., **Horton, B.K.**, Axen, G.J., Hassanzadeh, J., and McIntosh, W.C., 2007 (in press), Middle to late Cenozoic basin evolution in the western Alborz Mountains: Implications for the onset of collisional deformation in northern Iran: Tectonics.

22 *Hampton, B.A., and **Horton, B.K.**, 2007 (in press), Sheetflow fluvial processes in a rapidly subsiding basin, Altiplano plateau, Bolivia: Sedimentology.

21 *Gillis, R.J., **Horton, B.K.**, and Grove, M., 2006, Thermochronology, geochronology, and upper crustal structure of the Cordillera Real: Implications for Cenozoic exhumation of the central Andean plateau: Tectonics, v. 25, TC6007, doi:10.1029/2005TC001887.

20 **Horton, B.K.**, 2005, Revised deformation history of the central Andes: Inferences from Cenozoic foredeep and intermontane basins of the Eastern Cordillera, Bolivia, Tectonics, v. 24, doi:10.1029/2003TC001619.

19 McQuarrie, N., **Horton, B.K.**, Zandt, G., Beck, S., and DeCelles, P.G., 2005, Lithospheric evolution of the Andean fold-thrust belt, Bolivia and the origin of the central Andean plateau: Tectonophysics, v. 399, p.15–37.

18 *Spurlin, M.S., Yin, A., **Horton, B.K.**, Zhou, J., and Wang, J., 2005, Structural evolution of the Yushu-Nangqian region and its relationship to syn-collisional igneous activity, east-central Tibet: Geological Society of America Bulletin, v. 117, p. 1293–1317.

17 Garzione, C.N., Dettman, D.L., and **Horton, B.K.**, 2004, Carbonate oxygen isotope paleoaltimetry: Evaluating the effect of diagenesis on paleoelevation estimates for the Tibetan plateau: Palaeogeography, Palaeoclimatology, Palaeoecology, v. 212, p. 119–140.

16 **Horton, B.K.**, Constenius, K.N., and DeCelles, P.G., 2004, Tectonic control on coarse-grained foreland-basin sequences: An example from the Cordilleran foreland basin, Utah: Geology, v. 32, p. 637–640.

15 Dupont-Nivet, G., **Horton, B.K.**, Butler, R.F., Wang, J., Zhou, J., and Waanders, G.L., 2004, Paleogene clockwise tectonic rotation of the Xining-Lanzhou region, northeastern Tibetan Plateau: Journal of Geophysical Research, v. 109, B04401, doi:10.1029/2003JB002620, 13 p.

14 **Horton, B. K.**, Dupont-Nivet, G., Zhou, J., Waanders, G.L. Butler, R.F., and Wang, J., 2004, Mesozoic-Cenozoic evolution of the Xining-Minhe and Dangchang basins, northeastern Tibetan plateau: Magnetostratigraphic and biostratigraphic results: Journal of Geophysical Research, v. 109, B04402, doi:10.1029/2003JB002913, 15 p.

13 DeCelles, P.G., and **Horton, B.K.**, 2003, Early to middle Tertiary foreland basin development and the history of Andean crustal shortening in Bolivia: Geological Society of America Bulletin, v. 115, p. 58–77.

12 **Horton, B.K.**, *Hampton, B.A., *LaReau, B.N., and Baldellón, E., 2002, Tertiary provenance history of the northern and central Altiplano (central Andes, Bolivia): A detrital record of plateau-margin tectonics: Journal of Sedimentary Research, v. 72, p. 711–726.

11 **Horton, B.K.**, Yin, A., *Spurlin, M.S., Zhou, J., and Wang, J., 2002, Paleocene-Eocene syncontractional sedimentation in narrow, lacustrine-dominated basins of east-central Tibet: Geological Society of America Bulletin, v. 114, 771–786.

10 **Horton, B.K.**, and DeCelles, P.G., 2001, Modern and ancient fluvial megafans in the foreland basin system of the central Andes, southern Bolivia: Implications for drainage network evolution in fold-thrust belts: Basin Research, v. 13, p. 43–63.

9 **Horton, B.K.**, *Hampton, B.A., Waanders, G.L., 2001, Paleogene synorogenic sedimentation in the Altiplano plateau and implications for initial mountain building in the central Andes: Geological Society of America Bulletin, v. 113, p. 1387–1400.

8 Lageson, D.R., Schmitt, J.G., **Horton, B.K.**, Kalakay, T.J., and Burton, B.R., 2001, Influence of Late Cretaceous magmatism on the Sevier orogenic wedge, western Montana: Geology, v. 29, p. 723–726.

7 **Horton, B.K.**, 2000, Reply: Sediment accumulation on top of the Andean orogenic wedge: Oligocene to late Miocene basins of the Eastern Cordillera, southern Bolivia: Geological Society of America Bulletin, v. 112, p. 1756–1759.

6 **Horton, B.K.**, 1999, Erosional control on the geometry and kinematics of thrust belt development in the central Andes: Tectonics, v. 18, 1292-1304.

5 **Horton, B.K.**, 1998, Sediment accumulation on top of the Andean orogenic wedge: Oligocene to late Miocene basins of the Eastern Cordillera, southern Bolivia: Geological Society of America Bulletin, v. 110, p. 1174–1192, 1513.

4 **Horton, B.K.**, and Schmitt, J.G., 1998, Development and exhumation of a Neogene sedimentary basin during extension, Nevada: Geological Society of America Bulletin, v. 110, p. 163–172.

3 Molina Garza, R. S., Geissman, J. W., Gomez, A., **Horton, B.**, 1998, Paleomagnetic data from Triassic strata, Zuni uplift, New Mexico: Further evidence of large-magnitude Triassic apparent polar wander of North America: Journal of Geophysical Research, v. 103, p. 24,189–24,200.

2 **Horton, B.K.**, and DeCelles, P.G., 1997, The modern foreland basin system adjacent to the central Andes: Geology, v. 25, p. 895–898.

1 **Horton, B.K.**, and Schmitt, J.G., 1996, Sedimentology of a lacustrine fan-delta system, Miocene Horse Camp Formation, Nevada, USA: Sedimentology, v. 43, p. 133–155.

**Articles in peer-reviewed thematic volumes**

1 Lundberg, J. G., Marshall, L. G., Guerrero, J., **Horton, B.**, Malabarba, M. C. and Wesselingh, F., 1998, The stage for neotropical fish diversification: A history of tropical South American rivers, *in* Malabarba, L. R., Reis, R. E., Vari, R. P., Lucena, C. A. S., and Lucena, Z. M. S., eds, *Phylogeny and classification of neotropical fishes*: Museu de CiÍncias e Tecnologia, Edipucrs, Porto Alegre, Brazil, p. 13–48.

**Articles in published guidebooks**

1 Schmitt, J.G., Haley, J.C., Lageson, D.R., **Horton, B.K.**, and Azevedo, P.A., 1995, Sedimentology and tectonics of the Bannack-McKnight Canyon-Red Butte area, southwest Montana: New perspectives on the Beaverhead Group and Sevier orogenic belt, in Mogk, D.W., ed., *Northwest Geology: Field guide to geologic excursions in southwest Montana*, v. 24, p. 245–313.

**Articles in professional magazines**

1 **Horton, B**., 2004, Sedimentary Basins, Geotimes (annual edition of "Highlights: Discoveries in the Earth Sciences"), v. 49, p. 20-21.

**Presentations with published abstracts**

49 **Horton, B.K.**, Gillis, R.J., Farley, K.A., and Wörner, G, 2007, Kinematic evolution of the central Andean fold-thrust belt and hinterland plateau inferred from synorogenic strata and low temperature thermochronology: Geological Society of London, Continental Tectonics and Mountain Building (Speciality Meeting).

48 DeCelles, P.G., **Horton, B.K.**, and Carrapa, B., 2006, A comparison of the North American and South American retroarc foreland basin systems: Geological Society of America Abstracts with Programs, Backbone of the Americas (Speciality Meeting No. 2), p. 87.

47 Gavillot, Y.G., **Horton, B.K.**, Axen, G., Fakhari, M.D., and Stockli, D.F., 2006, Thermochronologic analysis of exhumation in the Zagros mountains: Constraints on the timing of the Arabia-Eurasia continental collision: Geological Society of America Abstracts with Programs, v. 38 (7), p. 419.

46 Gillis, R.J., **Horton, B.K.**, and Grove, M., 2006, Implications for Cenozoic exhumation of the central Andean plateau based on thermochronology, geochronology and upper crustal structure of the Cordillera Real, Bolivia: Geological Society of America Abstracts with Programs, v. 38 (5), p. 78.

45 Giovanni, M.K., **Horton, B.K.**, Lovera, O.M., Grove, M., Farley, K.A., Kimbrough, D.L., and McNulty, B., 2006, Emplacement and exhumation of the Cordillera Blanca batholith, Peru: Geological Society of America Abstracts with Programs, Backbone of the Americas (Speciality Meeting No. 2), p. 40.

44 **Horton, B.K.**, Gillis, R.J., Farley, K.A., and Wörner, G., 2006, Cenozoic exhumation of the margins of the central Andean plateau: Results from low temperature thermochronology and synorogenic stratigraphy: Eos, Transactions, American Geophysical Union, v.87 (52) [INVITED].

43 **Horton, B.K.**, Gillis, R.J., and Grove, M., 2006, Unsteady exhumation of the eastern margin of the central Andean plateau, northern Bolivia: Geological Society of America Abstracts with Programs, Backbone of the Americas (Speciality Meeting No. 2), p. 86

42 Mosolf, J.G., **Horton, B.K.**, Wilson, L.F., and Matos, R., 2006, Detrital record of rapid Neogene exhumation in the Cordillera Real, Bolivia: Eos, Transactions, American Geophysical Union, v.87 (52).

41 Murray, B.P., **Horton, B.K.**, Gillis, R.J., and Matos, R., 2006, Sedimentology and timing of initial basin development in the northern Altiplano recorded by the synorogenic Peñas and Aranjuez formations, central Andes, Bolivia: Geological Society of America Abstracts with Programs, v. 38 (7), p. 368.

40 **Horton, B.K.**, 2005, The role of sedimentary basins in orogenic belts: Geological Society of America Abstracts with Programs, v.37 [INVITED].

39 **Horton, B.K.**, Gillis, R.J., Hassanzadeh, J., Stockli, D.F., Axen, G.J., Guest, B., Amini, A., Zamanzadeh, S.M., Fakhari, M., and Grove, M., 2005, Tectonic history of Iran: Initial detrital zircon results: Geological Society of America Abstracts with Programs, v.37 [INVITED].

38 Bourke, M.B., **Horton, B.K.**, and K.N. Constenius, K.N., 2004, Sedimentary and tectonic analysis of the Kishenehn basin, northwest Montana, as an analog for Tertiary extensional basins of the western United States: Geological Society of America Abstracts with Programs, v.36 (5), p. 510.

37 Gillis, R.J., **Horton, B.K.**, and Grove, M., 2004, Exhumation history and basin development along the eastern margin of the central Andean Plateau, Bolivia: Geological Society of America Abstracts with Programs, v. 36 (5), p. 433.

36 **Horton, B.K.** 2004, Transitions between flexural and Airy isostasy and implications for basin development in continental plateaus: Geological Society of America Abstracts with Programs, v. 36 (5), p. 49 [INVITED].

35 **Horton, B.K.**, Giovanni, M.K., McNulty, B. and Grove, M., 2004, Thermochronologic and sedimentologic evidence for variations in exhumation of the Cordillera Blanca detachment fault system, Peru: Eos, Transactions, American Geophysical Union, v. 85 (47).

34 **Horton, B.K.**, Gillis, R.J., Stockli, D.F., Hassanzadeh, J., Axen, G.J., and Grove, M., 2004, Detrital record of Phanerozoic tectonics in Iran: Evidence from U-Pb zircon geochronology: Eos, Transactions, American Geophysical Union, v. 85 (47) [INVITED].

33 Kapp, P., Guynn, J.H., and **Horton, B.K.**, 2004, Late Cenozoic extension in Tibet: Characteristics, causes, and implications for crustal flow: Geological Society of London conference "Channel flow, ductile extrusion and exhumation of lower-mid crust in continental collision zones", December 6-7, 2004, London.

32 Minervini, J.M., **Horton, B.K.**, Volkmer, J.E., and Kapp, P.A., 2004, Depositional systems of the Duba basin during Cenozoic thrusting along the southern margin of the Lunpola basin system, south-central Tibetan plateau: Geological Society of America Abstracts with Programs, v. 36 (5), p. 433.

31 Dupont-Nivet, G., **Horton, B.K.**, Butler, R.F., Wang, J., Zhou, J., and Waanders, G.L., 2003, Cenozoic tectonic evolution of the Xining-Lanzhou area (northeastern Tibetan plateau) constrained by paleomagnetism, basin analysis and thermochronology: EGS-AGU-EUG Joint Assembly, France, TS26 Plate-scale deformation of continental lithosphere, EAE03-A-07547; TS26-1FR3O-002.

30 Fink, R.J., and **Horton, B.K.**, 2003, A mixed siliciclastic and carbonate lacustrine system in the central Andes: Cretaceous-Paleocene El Molino Formation, Bolivia: American Association of Petroleum Geologists Annual Convention, Abstracts with Programs, v. 12, p. A54.

29 Gillis, R. J., **Horton, B. K.**, and Grove, M., 2003, Exhumation of the Cordillera Real, Bolivia, based on new geologic mapping and $^{40}Ar/^{39}Ar$ thermochronology: Geological Society of America Abstracts with Programs, v. 35 (6), p. 515.

28 Gillis, R. J., **Horton, B. K.**, and Grove, M., 2003, Assessing mechanisms of exhumation in the Cordillera Real, Bolivia, based on regional structural mapping and thermochronology: Eos, Transactions, American Geophysical Union, v. 84 (46), p. 1383.

27 Giovanni, M. K., **Horton, B. K.**, McNulty, B., and Grove, M., 2003, Evolution of the Cordillera Blanca normal fault, central Peruvian Andes: Evidence from basin analysis and $^{40}Ar/^{39}Ar$ thermochronology: Eos, Transactions, American Geophysical Union, v. 84 (46), p. 1082.

26 **Horton, B.K.**, 2003, Synorogenic strata in compressional settings: Examples from the central Andes: Geological Society of America Abstracts with Programs, v. 35 (6), p. 642, [INVITED].

25 **Horton, B.K.**, 2003, Testing the influence of erosion on thrust belt geometry and kinematics in the Andes: Geological Society of America Abstracts with Programs, v. 35 (6), p. 296, [INVITED].

24 **Horton, B.K.**, 2003, Sedimentary and geomorphic record of crustal shortening, thickening, and surface uplift in the Eastern Cordillera of Bolivia: Eos, Transactions, American Geophysical Union, v. 84 (46), p. 1087, [INVITED].

23 Dupont-Nivet, G., **Horton, B.K.**, Butler, R.F., Wang, J., Zhou, J., and Zhang, H., 2002, Cretaceous to Tertiary vertical-axis tectonic rotations of northeastern Tibet from preliminary paleomagnetic results: Eos, Transactions, American Geophysical Union, v. 83, p. 1244.

22 Dupont-Nivet, G., **Horton, B.K.**, Butler, R.F., Wang, J., Zhou, J., and Zhang, H., 2002, Preliminary paleomagnetic results from Cretaceous to Tertiary red beds of northeastern Tibet: Geological Society of America Abstracts with Programs, v. 34, p. 487.

21 **Horton, B.K.**, Dupont-Nivet, G., Zhou, J., Wang, J., and Zhang, H., 2002, Improved age constraints for Mesozoic and Cenozoic basin development in northeastern Tibet based on magnetostratigraphy and palynology: Eos, Transactions, American Geophysical Union, v. 83, p. 1244.

20 Hampton, B.A., and **Horton, B.K.**, 2001, Long-term rapid accommodation recorded by a 7-km-thick fluvial succession, mid-Tertiary Altiplano basin, central Andes, *in* J.A. Mason, R.F. Diffendal, Jr., and R.M. Joeckel, eds., Program with Abstracts, Seventh International Conference on Fluvial Sedimentology, Open-File Report 60, Conservation and Survey Division, University of Nebraska-Lincoln, p. 118.

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