

BRIAN K. HORTON

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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 Appointments

2020 - present J. Nalle Gregory Chair in Sedimentary Geology, Department of Earth and Planetary Sciences & Institute for Geophysics, Jackson School of Geosciences, University of Texas at Austin
 2012 - present Professor (Department of Earth and Planetary Sciences) and Research Professor (Institute for Geophysics), University of Texas at Austin
 2021 Visiting Professor, University of Chile, Santiago, Chile
 2014 - 2020 Alexander Deussen Professor of Energy Resources, University of Texas at Austin
 2016 - 2017 Visiting Professor, Yachay Tech University, School of Geological Sciences, Urcuquí, Ecuador
 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 (tenured, 2006)
 1999 - 2001 Assistant Professor, Louisiana State University

Honors and Awards

2022 Best Paper Award, Society of Exploration Geophysicists: Timing of hydrocarbon entrapment in the eastern foothills of the Eastern Cordillera of Colombia: Sánchez et al., Interpretation, v. 9.
 2021 Carolyn G. and G. Moses Knebel Teaching Award, Department of Geological Sciences, UT: Undergraduate teaching excellence (GEO 420K Introduction to Field & Stratigraphic Methods)
 2019 University of Arizona Geosciences Distinguished Alumni Award
 2019 Outstanding Researcher Award, Institute for Geophysics, UT-Austin
 2018 William R. Dickinson Medal (Award for Excellence in Sedimentary Geology by a Mid-Career Scientist), SEPM Society for Sedimentary Geology
 2017 Outstanding Educator Award, Jackson School of Geosciences, UT-Austin
 2017 Director's Circle of Excellence Award, Institute for Geophysics, UT-Austin
 2016 - 2017 Faculty Research Assignment (sabbatical research fellowship), UT-Austin
 2013 Outstanding Researcher Award, Institute for Geophysics, UT-Austin
 2013 Director's Circle of Excellence Awards, Institute for Geophysics, UT-Austin
 2012 - 2013 Faculty Research Assignment (sabbatical research fellowship), UT-Austin
 2012 Director's Circle of Excellence Awards, Institute for Geophysics, UT-Austin
 2011 Outstanding Research Award, Jackson School of Geosciences, UT-Austin
 2011 Director's Circle of Excellence Awards, 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

1992	Albuquerque Petroleum Association Victor Salazar Memorial Scholarship
1992	Estwing Outstanding Geology Student Award, University of New Mexico
1992	Stuart A. Northrop Outstanding Geology Senior Award, University of New Mexico
1991	Sherman A. Wengerd Outstanding Geology Junior Award, University of New Mexico
1990	J. Paul Fitzsimmons Outstanding Geology Sophomore Award, University of New Mexico
1988 - 1992	Excel Scholarship (merit-based full scholarship), University of New Mexico

Professional Affiliations

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

Graduate Student Research Supervision: degree, completion date, research field area, current position

Silva, Adan, M.S. expected 2025, Ecuador
 Siddall, Ashlee, M.S. expected 2025, Argentina
 Konguthaithip, Natthakorn, M.S. expected 2025, Colombia
 Acevedo, Eliana, Ph.D. expected 2024 (co-supervised), Universidad de Buenos Aires, Argentina
 Regier, Nicholas, M.S. expected 2024, Argentina
 Butler, Kristina, Ph.D. 2022, now Assistant Professor, University of Texas at Dallas
 Malone, Joshua, M.S. 2022, now Ph.D. candidate, University of Texas at Austin
 Banks, Claudia, M.S. 2022, now Carbon Sequestration Geologist, Tetra Tech, Austin, Texas
 Gutierrez, Juan, M.S. 2022, now Ph.D. student, University of Texas at Austin
 McKeighan, Caroline, M.S. 2022 (co-supervised), now Geologist, Diamondback Energy, San Antonio, Texas
 Nix, Matthew, M.S. 2022, now Geologist, EOG Resources, Corpus Christi, Texas
 Hirtz, Jaime, M.S. 2021, now Geologist, U.S. Geological Survey, Denver, Colorado
 Mackaman-Lofland, Chelsea, Ph.D. 2020, now Assistant Professor, Denison University
 Capaldi, Tomas, Ph.D. 2019, now Assistant Professor, University of California San Diego (Scripps)
 Jackson, Lily, Ph.D. 2019, now Assistant Research Scientist, University of Wyoming
 George, Sarah, Ph.D. 2019, now Assistant Professor, University of Oklahoma
 Gutierrez, Evelin Gabriela, M.S. 2018, Ph.D. 2023, now Geologist, EOG Resources, Midland, Texas
 Calle, Amanda, Ph.D. 2017, now Geologist, Bureau of Economic Geology, Austin, Texas
 Ramirez, Sebastian, Ph.D. 2016 (co-supervised), now Exploration Geologist, Shell Oil Company, Houston, Texas
 Koshnaw (Mohammed), Renas, Ph.D. 2016, now postdoc, University of Göttingen, Germany
 Bush, Meredith, Ph.D. 2016, now Geologist, GeoEngineers Inc., Seattle, Washington
 Perez, Nicholas, Ph.D. 2015, now Associate Professor, Texas A&M University
 Anderson, Veronica, Ph.D. 2015, now Data Scientist, kWh Analytics, Houston, Texas
 (Levina) Jones, Mariya, M.S. 2013, now Chemistry Instructor, Student Academic Center, UC Davis, California
 Calle, Amanda, M.S. 2013, Ph.D. 2017, now Geologist, Bureau of Economic Geology, Austin, Texas
 Fitch, Justin, M.S. 2012, now Software Engineer, SBE Vision Inc., Albuquerque, New Mexico
 Woodruff, William, Jr., M.S. 2011, now Senior Geologist, Hunt Oil Company, Dallas, Texas
 Sanchez, Javier, M.S. 2011, Ph.D. 2015, University of Houston, now Geologist, Ecopetrol, Colombia
 Siks, Benjamin, M.S. 2011, now Senior Geologist, Hilcorp Energy Company, Anchorage, Alaska
 Bande, Alejandro, M.S. 2010, Ph.D. 2017, U. Potsdam, Germany, now Geologist, Tecpetrol, Buenos Aires.
 Moreno, Christopher, M.S. 2010, now Systems Administrator, Salesforce, Portland, Oregon
 Cardona, Paola, M.S. 2009 (co-supervised), now Geologist, Ecopetrol, Colombia
 Mackey, Glen, M.S. 2009 (co-supervised), Ph.D. 2019, University of Utah, now Data Scientist, Salt Lake City, Utah
 Perez, Nicholas, B.S. 2009, Ph.D. 2015, now Associate Professor, Texas A&M University
 Gavillot, Yann, M.S. 2007, UCLA (co-supervised), Ph.D. 2014, Oregon State, now Associate Prof, Montana Tech
 Mosolf, Jesse, M.S. 2007, UCLA. Ph.D. 2013, UCSB, now Professor, Montana Tech
 Murray, Bryan, M.S. 2007, UCLA. Ph.D. 2014, UCSB, now Associate Professor, California Poly State U. Pomona
 Giovanni, Melissa, Ph.D. 2007, UCLA, now Professor, College of Southern Nevada, Las Vegas, Nevada
 (Shirvell) Belgarde, Catherine, M.S. 2006, UCLA (co-supervised), now Superintendent Exploration, BHP, Arizona
 Bourke, Matthew, M.S. 2005, UCLA, now Geoscience Manager, ExxonMobil, Houston, Texas
 Gillis, Robert, M.S. 2005, UCLA, now Geologist, Alaska Division of Geological and Geophysical Surveys
 Fink, Richard, M.S. 2002, LSU, now Principal - Operations Geology, ExxonMobil, Houston, Texas
 Hampton, Brian, M.S. 2002, LSU. Ph.D. 2006, Purdue University, now Associate Professor, New Mexico State U.

Postdoctoral Research Supervision: appointment dates, current position

Jackson, Lily, 2020-2021, now Assistant Research Scientist, University of Wyoming.
 Sickmann, Zachary, 2018-2019, now Assistant Professor, University of Texas at Dallas.
 Calle, Amanda, 2017-2018, now Geologist, Bureau of Economic Geology, Austin, Texas.
 McKenzie, N. Ryan, 2012-2014, now Associate Professor, University of Hong Kong.
 Cassel, Elizabeth, 2011-2013, now Associate Professor, University of Idaho.
 Saylor, Joel, 2008-2012, now Associate Professor, University of British Columbia, Canada.
 Parra, Mauricio, 2009-2010, now Professor, Institute of Energy and Environment, University of São Paulo, Brazil.
 Nie, Junsheng, 2008-2010, now Professor, Lanzhou University, Lanzhou, China.
 Zhou, Jiangyu, 2003, now Professor, China University of Geosciences, Wuhan, China.
 Dupont-Nivet, Guillaume, 2002-2003, now Professor, Université de Rennes, France.

Research Grants (past 10 years)

- [42] Collaborative Research: Internal and external drivers of orogenic episodicity in the Ecuadorian Andes. National Science Foundation Tectonics Program, 9/2020-8/2025 (5 years). Co-PI: Jay Chapman (University of Wyoming).
- [41] Collaborative Research: Consequences of flat slab subduction on the chemical, structural, and dynamic evolution of continental lithosphere. National Science Foundation Frontier Research in Earth Sciences (FRES) Program, 9/2019-8/2025 (6 years). Co-PIs: Lara Wagner (Carnegie Institution for Science), Christy Till (Arizona State University), Thorsten Becker (UT).
- [40] Shortening, extension, and drainage reorganization in the Andean fold-thrust belt and broken foreland basin of northern Patagonia, Argentina. National Science Foundation Tectonics Program, 9/2019-8/2024 (5 years).
- [39] Collaborative Research: Trans-Amazon Drilling Project. National Science Foundation Integrated Earth Systems Program (IES), 9/2018-8/2024 (6 years). Co-PIs: P. Baker (Duke University, and 4 others).
- [38] IODP (International Ocean Discovery Program). Expedition 387 (Amazon Margin), 2019-2022 (3 years). Chief Scientists: Paul Baker (Duke University), Cleveson Silva (Federal University Fluminense, Brazil).
- [37] Provenance, geochronology and geological synthesis of the M1 and basal Tena sandstones, Oriente Basin, Ecuador. Andes Petroleum Ecuador Ltd., 5/2018-8/2020 (2 years). PI: R.J. Steel (UT).
- [36] Trans-Amazon Drilling Project. International Continental Scientific Drilling Program (ICDP), 9/2017-8/2019 (2 years). Co-PIs: P. Baker (Duke University, and 16 others).
- [35] The dynamics of mountains, landscapes and climate in the distribution and generation of biodiversity of the Amazon/Andean forest. National Science Foundation Frontiers in Earth System Dynamics (FESD) Program, 9/2015-8/2016 (1 year). Co-PIs: P. Baker (Duke University, and 3 others).
- [34] 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, 9/2016-2/2018 (1.5 years). Co-PIs: S. Fritz (University of Nebraska, and 6 others).
- [33] Continental-scale drainage reversal of the Amazon River. National Geographic Society Research and Exploration Program, 9/2016-8/2017 (1 year).
- [32] The dynamics of mountains, landscapes and climate in the distribution and generation of biodiversity of the Amazon/Andean forest. National Science Foundation Frontiers in Earth System Dynamics (FESD) Program, 9/2015-8/2016 (1 year). Co-PIs: P. Baker (Duke University, and 3 others).
- [31] Deformational and thermal history of the Iranian Zagros fold-thrust belt (thermochronometric analysis of legacy samples). ExxonMobil, 8/2015-12/2016 (1.5 years). Co-PI: D.F. Stockli (UT).
- [30] Basin analysis and field studies of the Argall basin, Block IV, central Mongolia. Petro Matad (Ulaanbaatar, Mongolia) 8/2015-7/2016 (1 year).
- [29] The Pampean desert: reconstructing the largest Quaternary sand sea in South America. National Geographic Society Research and Exploration Program, 7/2015-6/2016 (1 year). PI: Edgardo Latrubesse (UT).
- [28] Exhumation history of the Indian Lesser Himalaya: Discriminating tectonic models with implications for the Neogene isotopic composition of seawater. National Science Foundation Tectonics Program, 5/2015-4/2018 (3 years). Co-PIs: N.R. McKenzie, D.F. Stockli (UT).
- [27] Rapid Miocene thrust propagation and wholesale basin partitioning along the central and southern Andes, Argentina. National Science Foundation Tectonics Program, 6/2014-5/2017 (3 years). Co-PI: N.R. McKenzie (Yale University).
- [26] Exploring source-to-sink linkages between Laramide basins and the Gulf of Mexico. Statoil. 6/2014-8/2015 (1 year). Graduate Fellow: Meredith Bush (UT).

- [25] The dynamics of mountains, landscapes and climate in the distribution and generation of biodiversity of the Amazon/Andean forest. National Science Foundation Frontiers in Earth System Dynamics Program Program, 9/2013-8/2015 (2 years). Co-PIs: P. Baker (Duke University, and 3 others).
- [24] Thrust belt response to rapid surface uplift of the Altiplano: A field test of Cordilleran cyclicity in southern Bolivia. National Science Foundation Tectonics Program, 7/2013-6/2016 (3 years). Co-PI: S. Long (University of Nevada Reno).
- [23] Structural and hydrologic evaluation, Andean Cordillera and foreland basin, Colombia. Pacific Rubiales Energy, UT 201301464-001, 2013-2015 (2 years). PI: Brad Wolaver (Bureau of Economic Geology, UT).
- [22] *Depositional and deformational history of the Zagros fold-thrust belt and foreland basin*. ExxonMobil, UTA12-000741, 2012-2014 (2 years).

Peer-Reviewed Publications (past 10 years) (underlined = graduate student; * = postdoctoral scholar)

142 articles published: 28 first author (8 sole author); 48 second author; 66 other.

(includes 77 first-authored articles by student (65) and postdoc (12) advisees).

Researcher ID = A-1804-2009

Web of Science Researcher ID = P-5772-2019

Web of Science h-index = 53 (first author h-index = 23).

Google Scholar h-index = 63 (first author h-index = 24). Total citations = >12,500. (November 2023)

- [142] Malone, J.R., Dalziel, I.W.D., Stone, P., and **Horton, B.K.**, 2023, Provenance analysis of Paleozoic strata in the Falkland/Malvinas Islands: Implications for paleogeography and Gondwanan reconstructions: *Gondwana Research*, v. 121, p. 33–55, doi:10.1016/j.gr.2023.04.004.
- [141] Calle, A.Z., **Horton, B.K.**, García, R., Anderson, R.B., Stockli, D.F., Flaig, P.P., and Long, S.P., 2023, Sediment dispersal and basin evolution during contrasting tectonic regimes along the western Gondwanan margin in the central Andes: *Journal of South American Earth Sciences*, v. 125, doi:10.1016/j.jsames.2023.104286.
- [140] Acevedo, E., *Fernández Paz, L., Encinas, A., **Horton, B.K.**, Hernando, A., Valencia, V., and Folguera A., 2023, Late Jurassic back-arc extension in the Neuquén Basin (37°S): Insights from structural, sedimentological and provenance analyses: *Basin Research*, v. 35, p. 1012-1036, doi:10.1111/bre.12744.
- [139] George, S.W.M., Perez, N.D., *Struble, W., Curry, M.E., and **Horton, B.K.**, 2022, Aseismic ridge subduction focused late Cenozoic exhumation above the Peruvian flat slab: *Earth and Planetary Science Letters*, v. 600, doi:10.1016/j.epsl.2022.117754.
- [138] **Horton, B.K.**, Capaldi, T.N., Mackaman-Lofland, C., Perez, N.D., Bush, M.A., Fuentes, F., and Constenius, K.N., 2022, Broken foreland basins and the influence of subduction dynamics, tectonic inheritance, and mechanical triggers: *Earth Science Reviews*, v. 234, doi:10.1016/j.earscirev.2022.104193 [invited review].
- [137] Mackaman-Lofland, C., **Horton, B.K.**, Ketcham, R.A., McQuarrie, N., Fosdick, J.C., Fuentes, F., Constenius, K.N., Capaldi, T.N., Stockli, D.F., and Alvarado, P., 2022, Causes of variable shortening and tectonic subsidence during changes in subduction: insights from flexural thermokinematic modeling of the Neogene southern central Andes (28–30°S): *Tectonics*, v. 41, doi:10.1029/2022TC007334.
- [136] **Horton, B.K.**, Capaldi, T.N., and Perez, N.D., 2022, The role of flat slab subduction, ridge subduction, and tectonic inheritance in Andean deformation: *Geology*, v. 50, p. 1007-1012, doi:10.1130/G50094.1.
- [135] **Horton, B.K.**, and Folguera, A., 2022, Tectonic inheritance and structural styles in the Andean fold-thrust belt and foreland basin, in Zamora, G., and Mora, A., eds., *Andean Structural Styles: A Seismic Atlas*: Elsevier, p. 3-28, doi:10.1016/B978-0-323-85175-6.00001-8.
- [134] Runyon, B., Saylor, J.E., **Horton, B.K.**, Reynolds, J.H., and Hampton, B., 2022, Basin evolution in response to flat subduction in the Altiplano: *Journal of the Geological Society of London*, v. 179, doi:10.1144/jgs2021-003.
- [133] **Horton, B.K.**, 2022, Unconformity development in retroarc foreland basins: Implications for the geodynamics of Andean-type margins: *Journal of the Geological Society of London*, v. 179, doi:10.1144/jgs2020-263.
- [132] George, S.W.M., **Horton, B.K.**, Vallejio, C., Jackson, L.J., and Gutierrez, E.G., 2021, Did accretion of the Caribbean oceanic plateau drive rapid crustal thickening in the northern Andes? *Geology*, v. 49, p. 936-940, doi:10.1130/G48509.1.
- [131] Liu, S., Zhang, A., *Lin, C., Zhang, B., Yuan, H., Huang, D., Steel, R.J., and **Horton, B.K.**, 2021, Thrust duplexing and transpression in the Yanshan Mountains: Implications for early Mesozoic orogenesis and decratonization of the North China Craton: *Basin Research*, v. 33, p. 2303-2327, doi:10.1111/bre.12558.

- [130] Vallejo, C., Romero, C., **Horton, B.K.**, Spikings, R.A., Gaibor, J., Winkler, W., Esteban, J.J., Thomsen, T.B., and Mariño, E., 2021, Jurassic to early Paleogene sedimentation in the Amazon region of Ecuador: Implications for the paleogeographic evolution of northwestern South America: *Global and Planetary Change*, v. 204, doi:10.1016/j.gloplacha.2021.103555.
- [129] Anderson, R.B., Long, S.P., **Horton, B.K.**, Calle, A.Z., and Soignard, E., 2021, Late Paleozoic Gondwanide deformation in the central Andes: Insights from RSCM thermometry and thermal modeling, southern Bolivia: *Gondwana Research*, v. 94, p. 222-242, doi:10.1016/j.gr.2021.03.002.
- [128] Capaldi, T.N., *McKenzie, N.R., **Horton, B.K.**, Mackaman-Lofland, C., Colleps, C.L., and Stockli, D.F., 2021, Detrital zircon record of Phanerozoic magmatism in the southern central Andes: *Geosphere*, v. 17, p. 876-897, doi:10.1130/GES02346.1.
- [127] Perez, N.D., Anderson, R.B., **Horton, B.K.**, Ohlson, B.A., and Calle, A.Z., 2021, Reconciling spatial and temporal patterns of Cenozoic shortening, exhumation, and subsidence in the southern Bolivian Andes: *Frontiers in Earth Science*, v. 9, doi:10.3389/feart.2021.636269.
- [126] Sánchez, N., Pacheco, J., Guzman-Vega, M.A., Mora, A., and **Horton, B.**, 2021, Timing of hydrocarbon entrapment in the eastern foothills of the Eastern Cordillera of Colombia: *Interpretation*, v. 9, p. T145-T159, doi:10.1190/int-2020-0058.1.
- [125] Koshnaw, R.I., Stockli, D.F., **Horton, B.K.**, Teixell, A., Barber, D.E., and Kendall, J.J., 2020, Late Miocene deformation kinematics along the NW Zagros fold-thrust belt, Kurdistan region of Iraq: Constraints from apatite (U-Th)/He thermochronometry and balanced cross sections: *Tectonics*, doi:10.1029/2019TC005865.
- [124] Mora, A., *Tesón, E., Martínez, J., *Parra, M., Lasso, Á., **Horton, B.K.**, Ketcham, R.A., Velásquez, A., and Arias-Martínez, J.P., 2020, The eastern foothills of Colombia, in Gómez, J., and Mateus-Zabala, D., eds., *The Geology of Colombia: Servicio Geológico Colombiano*, Publicaciones Geológicas Especiales, v. 37, p. 123-142, Bogotá, Colombia, doi:10.32685/pub.esp.37.2019.05.
- [123] Mora, A., *Villagómez, D., *Parra, M., Caballero, V.M., Spikings, R., **Horton, B.K.**, Mora-Bohórquez, J.A., Ketcham, R.A., and Arias-Martínez, J.P., 2020, Late Cretaceous to Cenozoic uplift of the northern Andes: Paleogeographic implications, in Gómez, J., and Mateus-Zabala, D., eds., *The Geology of Colombia: Servicio Geológico Colombiano*, Publicaciones Geológicas Especiales, v. 37, p. 89-121, Bogotá, Colombia, doi:10.32685/pub.esp.37.2019.04.
- [122] Ren, X., Nie, J., Saylor, J.E., Wang, X., Liu, F., and **Horton, B.K.**, 2020, Temperature control on silicate weathering intensity and evolution of the Neogene East Asian summer monsoon: *Geophysical Research Letters*, v. 47, e2020GL088808, doi:10.1029/2020GL088808.
- [121] Koshnaw, R.I., **Horton, B.K.**, Stockli, D.F., Barber, D.E., and Tamar-Agha, M.Y., 2020, Sediment routing in the Zagros foreland basin: Drainage reorganization and a shift from axial to transverse sediment dispersal in the Kurdistan region of Iraq: *Basin Research*, v. 32, p. 688-715, doi:10.1111/bre.12391.
- [120] Moreno, F., Garzzone, C.N., George, S.W.M., **Horton, B.K.**, Williams, L., Jackson, L.J., Carlotto, V., Richter, F., and Bandeian, A., 2020, Coupled Andean growth and foreland basin evolution, Campanian–Cenozoic Bagua Basin, northern Peru: *Tectonics*, v. 39, e2019TC005967, doi:10.1029/2019TC005967.
- [119] Capaldi, T.N., **Horton, B.K.**, *McKenzie, N.R., Mackaman-Lofland, C., Stockli, D.F., Ortiz, G., and Alvarado, P., 2020, Neogene retroarc foreland basin evolution, sediment provenance, and magmatism in response to flat slab subduction, western Argentina: *Tectonics*, v. 39, e2019TC005958, doi:10.1029/2019TC005958.
- [118] Pujols, E., Stockli, D.F., Constenius, K.N., and **Horton, B.K.**, 2020, Thermochronological and geochronological constraints on Late Cretaceous unroofing and proximal sedimentation in the Sevier orogenic belt, Utah: *Tectonics*, v. 39, e2019TC005794, doi:10.1029/2019TC005794.
- [117] **Horton, B.K.**, *Parra, M., and Mora, A., 2020, Construction of the Eastern Cordillera of Colombia: Insights from the sedimentary record, in Gómez, J., and Mateus-Zabala, D., eds., *The Geology of Colombia: Servicio Geológico Colombiano*, Publicaciones Geológicas Especiales, v. 37, p. 67-88, Bogotá, Colombia, doi:10.32685/pub.esp.37.2019.03.
- [116] Mackaman-Lofland, C., **Horton, B.K.**, Fuentes, F., Constenius, K.N., Ketcham, R.A., Capaldi, T.N., Stockli, D.F., Ammirati, J.B., Alvarado, P., and Orozco, P., 2020, Andean mountain building and foreland basin evolution during thin- and thick-skinned Neogene deformation (32–33°S): *Tectonics*, v. 39, e2019TC005838, doi:10.1029/2019TC005838.
- [115] Bande, A., Boll, A., Fuentes, F., **Horton, B.K.**, and Stockli, D.F., 2020, Thermochronological constraints on the exhumation of the Malargüe fold-thrust belt, southern Central Andes, in Kietzmann, D., and Folguera,

- A., eds., *Opening and Closure of the Neuquén Basin in the Southern Andes*: Springer Earth System Sciences, p. 371-396, doi:10.1007/978-3-030-29680-3_15.
- [114] Fuentes, F., and **Horton, B.K.**, 2020, The Andean foreland evolution of the Neuquén Basin: A discussion, in Kietzmann, D., and Folguera, A., eds., *Opening and Closure of the Neuquén Basin in the Southern Andes*: Springer Earth System Sciences, p. 341-370, doi:10.1007/978-3-030-29680-3_14.
- [113] Collops, C.L., *McKenzie, N.R., **Horton, B.K.**, Webb, A.A.G., Ng, Y.W., and Singh, B.P., 2020, Sediment provenance of pre- and post-collisional Cretaceous–Paleogene strata from the frontal Himalaya of northwest India: *Earth and Planetary Science Letters*, v. 534, doi:10.1016/j.epsl.2020.116079.
- [112] Nie, J., Ren, X., Saylor, J.E., Su, Q., **Horton, B.K.**, Bush, M.A., Chen, W., and Pfaff, K., 2020, Magnetic polarity stratigraphy, provenance, and paleoclimate analysis of Cenozoic strata in the Qaidam Basin, NE Tibetan Plateau: *Geological Society of America Bulletin*, v. 132, p. 310-320, doi:10.1130/B35175.1.
- [111] Butler, K.L., **Horton, B.K.**, *Echaurren, A., Folguera, A., and Fuentes, F., 2020, Cretaceous–Cenozoic growth of the Patagonian broken foreland basin, Argentina: Chronostratigraphic framework and provenance variations during transitions in Andean subduction dynamics: *Journal of South American Earth Sciences* (Special Issue: Tectonic Evolution of Patagonian Basins), v. 97, doi:10.1016/j.jsames.2019.102242.
- [110] George, S.W.M., Davis, S.N., Fernández, R.A., Manríquez, L.M.E., Leppe, M.A., **Horton, B.K.**, and Clarke, J.A., 2020, Chronology of deposition and unconformity development across the Cretaceous–Paleogene boundary, Magallanes–Austral Basin, Patagonian Andes: *Journal of South American Earth Sciences* (Special Issue: Tectonic Evolution of Patagonian Basins), v. 97, doi:10.1016/j.jsames.2019.102237.
- [109] Folguera, A., Fernández Paz, L., Iannelli, S., Navarrete, C., *Echaurren, A., *Gianni, G., Butler, K.L., **Horton, B.K.**, *Litvak, V., Encinas, A., and *Orts, D., 2020, The origin of the San Jorge Gulf Basin in the context of the Mesozoic–Cenozoic evolution of Patagonia: *Journal of South American Earth Sciences*, v. 97, doi:10.1016/j.jsames.2019.102422.
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