

G. BURCH FISHER

University of Pittsburgh

Department of Geology and Environmental Science

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Updated - 10/1/16

EDUCATION

2013 Ph.D. in Earth Science, University of California at Santa Barbara

Advisors - Douglas Burbank and Bodo Bookhagen

2007 M.S. in Earth Science, Dartmouth College

Advisor - Frank Magilligan

2004 B.A. cum laude with honors in Geology, Middlebury College

Studied Abroad at La Universidad de La Serena, Chile (February to June 2002)

Advisor - Peter Ryan

Postdoctoral Advisors

University of Pittsburgh - Eitan Shelef

University of California at Santa Barbara - Douglas Burbank and David Valentine

PROFESSIONAL EXPERIENCE

2016– Postdoctoral Associate, University of Pittsburgh

2014– Assistant Researcher II, Earth Research Institute, University of California at Santa Barbara

2014–2016 Jackson Distinguished Postdoctoral Fellow, University of Texas at Austin

2014 Assistant Specialist III, Marine Science Institute, University of California at Santa Barbara

2013–2014 Assistant Specialist III, Earth Research Institute, University of California at Santa Barbara

2007–2013 PhD Candidate, University of California at Santa Barbara

2009–2012 NASA Earth and Space Science Fellow

2005–2007 MS Candidate, Dartmouth College

2004–2005 Research/Teaching Assistant, Middlebury College

Summer 2004 Research Assistant, University of California at Santa Cruz

Summer 2003 Intern, Kenai Watershed Forum/Alaska Conservation Foundation

Winter 2003 Intern, USGS-BRD Kilauea Field Station, Volcanoes National Park, HI

Summer 2002 Intern, Güirá Oga (Bird and Mammal Recuperation Center), Puerto Iguazu, Argentina (Spanish)

Spring 2002 Intern, Pukara (AIDS Organization), Coquimbo, Chile (Spanish)

TEACHING EXPERIENCE

Instructor of Record, UC Santa Barbara

Mountains, Boots, and Backpacks: Field Study of the High Sierra (EARS 6 w/ D. Burbank, J. Harvey)(Sum 2012)

Geological Applications of GIS (EARS 176) (Spring 2012)

Geology and the Environment (EARS 1) (Summer 2009)

Graduate Teaching Assistant, UC Santa Barbara

Quantitative Geomorphology (Geography 137 – B. Bookhagen) (Fall 2008)

Global Warming - Science and Society (Geology 130 – D. Lea) (Spring 2008, 2009)

*Guest lectured first three lectures of Geology 130 for D. Lea (Spring 2009)

Plate Tectonics (Geology 157 – D. Wilson) (Winter 2008)

Field Studies in Geological Science (Geology 18 – T. Atwater) (Fall 2007)

Mountains, Boots, and Backpacks: Field Study of the High Sierra (Geology 6 – D. Burbank) (Fall 2007)

Graduate Teaching Assistant, Dartmouth College

Guest Lecturer for Earth Surface Processes and Landforms (Geography 33 – F. Magilligan) (Spring 2007)
Introduction to Earth Science (Earth Science 1 – J. Aronson & J. Kaste) (Spring & Fall 2006)

Teaching Assistant, Middlebury College

Oceanography (Geology 161 – T. Manley) (Fall 2004 & 2005)
Marine Geology (Geology 342 – P. Manley) (Fall 2004)
Geographic Information Systems (Geography 320 – R. Churchill) (Fall 2003 & Spring 2004)
Vertebrate Natural History (Biology 302 – S. Trombulak) (Fall 2002)

AWARDS & HONORS

2014-2016 Jackson Distinguished Postdoctoral Fellowship, University of Texas at Austin
2013 G.K. Gilbert Award for Best Graduate Student Presentation, UCSB Department of Earth Science
2009-2012 NASA Earth and Space Science Fellowship (NESSF)
2009 Reds Wolman Graduate Student Research Award, AAG - Geomorphology Specialty Group
2008 Richard and Eleanor Migues Field Research Award, UCSB Department of Earth Science
2007 NSF Graduate Research Fellowship Honorable Mention
2006 GSA Outstanding Student Research Award (Top 17 proposals out of 550)
2005 Dartmouth Presidential Fellowship Award
2005-2007 Dartmouth Fellowship (Tuition and Stipend)
2005 Best Graduate Student Presentation, 42nd Annual Mtg. of the Clay Minerals Society
2004 3rd place talk at the Vermont Geological Society Meeting

GRANTS AWARDED (\$253,420 to date)

2014-2016 **Jackson Distinguished Postdoctoral Fellowship, University of Texas at Austin - (\$140,000)**

2009-2012 **NASA Earth and Space Science Fellowship - (\$90,000)**
ASTER-Derived River Widths and Their Spatial Implications for Erosion in the Tectonically Active Himalaya

2011 **UCSB Science and Engineering Research Grant - (\$2000)**
Quantifying Soil Production in the Tectonically Active Himalaya

2009 **GSA Graduate Student Research Grant - (\$1570)**
Quantification of Climate-Erosion Coupling in the Himalaya - A Continuing Education Experience

2009 **ExxonMobil Global Geoscience Grant - (\$5000)**

2008 **ExxonMobil Geoscience Grant - (\$7500)**
Spatial and Temporal Quantification of Climate-Erosion Linkages in the Himalaya

2007 **Preston Cloud Memorial Travel Grant, UCSB Department of Earth Science - (\$300)**

2006 **GSA Graduate Student Research Grant - (\$2700)**
Bring Back the Salmon! Understanding the Role of LWD in Salmon Recovery in Downeast Maine

2006 **Dartmouth College Research Grant - (\$2000)**
Understanding the Relationship between Large Woody Debris, Sediment Transport, and Channel Complexity in Downeast Maine Salmon Streams

- 2006 Clay Minerals Society International Student Travel Grant - (\$1000)
- 2006 Dartmouth College Earth Sciences Dept. Conference Travel Grant - (\$750)
- 2006 GSA Conference Travel Grant - (\$50)
- 2004 Middlebury College Conference Travel Grant - (\$550)

PEER-REVIEWED PUBLICATIONS † Undergraduate work

In Review

- Scherler, D., R.A. DiBiase, **G.B. Fisher**, and J-P. Avouac, Testing monsoonal controls on bedrock river incision in the Himalaya and Eastern Tibet with a stochastic-threshold stream power model, *Journal of Geophysical Research - Earth Surface*
- Bagby, S.C., C.M. Reddy, C. Aepli, **G.B. Fisher**, and D.L. Valentine, Persistence and biodegradation of oil at the ocean floor following Deepwater Horizon, *Proceedings of the National Academy of Sciences*

Published or In Press

18. Amidon, W.H., †L.V. Luna, **G.B. Fisher**, D.W. Burbank, A.R.C. Kylander-Clark, and R. Alonso (*In Press*), Provenance and tectonic implications of Orán Group foreland basin sediments, Río Iruya canyon, NW Argentina (23°S), *Basin Research*, doi:10.1111/bre.12139.
17. Valentine, D.L., **G.B. Fisher**, O. Pizarro, C.L. Kaiser, D. Yoerger, J.A. Breier, and J. Tarn (2016), Autonomous marine robotic technology reveals an expansive benthic bacterial community relevant to regional nitrogen biogeochemistry, *Environmental Science and Technology*, doi:10.1021/acs.est.6b03584
16. Amidon, W.H., P.L. Ciccioli, S.A. Marensi, C.O. Limarino, **G.B. Fisher**, D.W. Burbank, and A.R.C. Kylander-Clark (2016), U-Pb ages of detrital and volcanic zircons of the Toro Negro Formation, northwestern Argentina: age, provenance and sedimentation rates, *Journal of South American Earth Sciences*, 70, 237-250, doi: 10.1016/j.jsames.2016.05.013.
15. Harrison, L.R., T. Dunne, and **G.B. Fisher** (2015), Hydraulic and geomorphic processes in an overbank flood along a meandering, gravel-bed river: implications for chute formation, *Earth Surface Processes and Landforms*, 40, 1239-1253, doi:10.1002/esp.3717.
14. Valentine, D.L., **G.B. Fisher**, S.C. Bagby, R.K. Nelson, C.M. Reddy, S.P. Sylva, and M.A. Woo (2014), Fallout plume of submerged oil from Deepwater Horizon, *Proceedings of the National Academy of Sciences*, 111, 15906-15911, doi:10.1073/pnas.1414873111.
13. Godard, V., D.L. Bourlès, F. Spinabella, D.W. Burbank, B. Bookhagen, **G.B. Fisher**, A. Moulin, and L. Léanni (2014), Dominance of tectonics over climate in Himalayan denudation, *Geology*, 42, 243-246, doi:10.1130/G35342.1.
12. Kaste, J.M., F.J. Magilligan, C.E. Renshaw, **G.B. Fisher**, and W.B. Dade (2014), Seasonal controls on meteoric ⁷Be in coarse-grained river channels, *Hydrological Processes*, 28, 2738-2748, doi:10.1002/hyp.9800.
11. Amos, C.B., S.J. Brownlee, D.H. Rood, **G.B. Fisher**, R. Bürgmann, P.R. Renne, and A.S. Jayko (2013), Chronology of tectonic, geomorphic, and volcanic interactions and the tempo of fault slip near Little Lake, California, *Geological Society of America Bulletin*, 125, 1187-1202, doi:10.1130/B30803.1.

10. **Fisher, G.B.**, B. Bookhagen, and C.B. Amos (2013), Channel planform geometry and slopes from freely available high-spatial resolution imagery and DEM fusion: Implications for channel width scalings, erosion proxies, and fluvial signatures in tectonically active landscapes, *Geomorphology*, 194, 46-56, doi:10.1016/j.geomorph.2013.04.011.
9. Godard, V., G.E. Tucker, **G.B. Fisher**, D.W. Burbank, and B. Bookhagen (2013), Frequency-dependent landscape response to climatic forcing, *Geophysical Research Letters*, 40, 859-863, doi:10.1002/grl.50253.
8. Amos, C.B., A.T. Lutz, A.S. Jayko, S.A. Mahan, **G.B. Fisher**, and J.R. Unruh (2013), Refining the southern extent of the 1872 Owens Valley earthquake rupture through paleoseismic investigations in the Haiwee area, southeastern California, *Bulletin of the Seismological Society of America*, 103, 1022-1037, doi:10.1785/0120120024.
7. **Fisher, G.B.**, C.B. Amos, B. Bookhagen, D.W. Burbank, and V. Godard (2012), Channel widths, landslides, faults, and beyond: The new world order of high-spatial resolution Google Earth imagery in the study of earth surface processes, in *Google Earth and Virtual Visualizations in Geoscience Education and Research*, edited by S.J. Whitmeyer, D.G. De Paor, J. Bailey, and T. Ornduff, *Geological Society of America Special Paper* 492, 1-22, doi:10.1130/2012.2492(01).
6. Godard, V., D.W. Burbank, D.L. Bourlès, B. Bookhagen, R. Braucher, and **G.B. Fisher** (2012), Impact of glacial erosion on the evolution of ¹⁰Be concentration in fluvial sediments of the Marsyandi catchment, central Nepal, *Journal of Geophysical Research - Earth Surface*, 117, F03013, doi:10.1029/2011JF002230.
5. **Fisher, G.B.**, F.J. Magilligan, J.M. Kaste, and K.H. Nislow (2010), Constraining the timescales of sediment sequestration associated with large woody debris using cosmogenic beryllium-7, *Journal of Geophysical Research - Earth Surface*, 115, F01013, doi:10.1029/2009JF001352.
4. Magilligan, F.J., P.B. Goldstein, **G.B. Fisher**, B.C. Bostick, and R.B. Manners (2008), Late Quaternary hydroclimatology of a hyper-arid Andean watershed: Climate change, floods, and hydrologic responses to the El Niño-Southern Oscillation in the Atacama Desert, *Geomorphology*, 101, 14-32, doi:10.1016/j.geomorph.2008.05.025
3. Magilligan, F.J., K.H. Nislow, **G.B. Fisher**, J. Wright, G. Mackey, and M. Laser (2008), The geomorphic function and characteristics of large woody debris in low gradient rivers, coastal Maine, USA, *Geomorphology*, 97, 467-482, doi:10.1016/j.geomorph.2007.08.016
2. **Fisher, G.B.**, and P.C. Ryan (2006), The smectite to disordered kaolinite transition in a tropical terrace chronosequence, Pacific coast, Costa Rica., *Clays and Clay Minerals*, 54, 571-586, doi:10.1346/CCMN.2006.0540504.
1. Manley, T.O., P.L. Manley, and **G.B. Fisher** (2005), Bathymetry of Lake Champlain, Copyrighted by Middlebury College. (Published Bathymetric Map with Explanatory Text and Maps).

TECHNICAL REPORTS

- Amos, C.B., A.T. Lutz, A.S. Jayko, S. Mahan, **G.B. Fisher**, and J.R. Unruh (2012), Refining the southern extent of the 1872 Owens Valley earthquake rupture – Paleoseismic investigations at Sage Flat and Haiwee Meadows, California, Final Technical Report to the U.S. Geological Survey National Earthquake Hazards Reduction Program, Award Number G09AP00133

THESES

Fisher, G.B. (September 2013), Deciphering landscape drivers and signatures in tectonically active landscapes using Google Earth imagery, remote sensing, and cosmogenic radionuclides, *Ph.D. Thesis, University of California at Santa Barbara*, 177 pp. (Advisors: Douglas Burbank and Bodo Bookhagen)

Fisher, G.B. (September 2007), Constraining the timescales of sediment sequestration associated with channel obstructions using cosmogenic beryllium-7, *M.S. Thesis, Dartmouth College*, 47 pp. (Advisor: Francis J. Magilligan)

Fisher, G.B. (May 2004), A tropical terrace progression and implications for fore-arc dynamics on the Pacific coast, Costa Rica, *Honors B.A. Thesis, Middlebury College*, 108 pp. (Advisor: Peter C. Ryan)

POPULAR PRESS & INTERVIEWS

2014 *Valentine et al. 2014* - Nature, WHOI, US News & World Report, NSF, Mother Jones, UCSB, AP, ABC News, NBC News, Huffington Post, Time, Salon, Outside, Gizmodo, Smithsonian, and many more (>50)

2013 *Amos et al. 2013* - LiveScience

2005 *Manley et al. 2005* - Middlebury College press release

INVITED PRESENTATIONS

2016 **Department of Geological Sciences, University of Indiana, Bloomington, IN**
Erosional CLUE: Was it Milankovitch in the Andes with a monsoon?

Department of Geological Sciences, University of Indiana, Bloomington, IN
Deciphering form, process, and consequence in transitional landscapes

De Ford Lecture Jackson School of Geosciences, University of Texas, Austin, TX
Erosional CLUE: Was it Milankovitch in the Andes with a monsoon?

2015 **Bureau of Economic Geology, University of Texas, Austin, TX**
The fate and persistence of Deepwater Horizon oil

Bureau of Economic Geology, University of Texas, Austin, TX
Pliocene drivers of erosion in the Andes

Department of Geology and Planetary Science, University of Pittsburgh, Pittsburgh, PA
Orogenic CLUE: Who is responsible for the erosion of mountain belts and when?

2014 **Earth Research Institute, University of California, Santa Barbara, CA**
From googly to Google-eyed: Explicit channel widths from high-spatial resolution Google Earth imagery

2013 **Department of Earth Science, University of California, Santa Barbara, CA**
Deciphering landscape drivers and signatures in tectonically active landscapes using Google Earth, remote sensing, and cosmogenic nuclides

2012 **Climate Research Group, Department of Geography, University of California, Santa Barbara, CA**
From googly to Google-eyed: Hillslope response to high magnitude climatic and tectonic events in Haiti

School of Earth and Environmental Sciences, University of Wollongong, Wollongong, Australia
From googly to Google-eyed: Using high-spatial resolution Google Earth imagery to quantify earth surface processes

2011 **ExxonMobil Exploration Company, Houston, TX**
Channel widths, landslides, faults, and beyond: The new world order of high-spatial resolution Google Earth imagery

2010 **Aspen Center for Environmental Studies** (Presented by Kayo Ogilby)
Himalayan erosion - A continuing education experience

ExxonMobil Upstream Research Company, Houston, TX

Climate-tectonic linkages in the Himalaya: Implications for landscape evolution in tectonically active orogenic systems

2007 **Colorado Rocky Mountain School, Carbondale, CO**

PROFESSIONAL AFFILIATIONS

American Geophysical Union (2006 - Present)

Association of American Geographers - Geomorphology Specialty Group (2008 - Present)

Geological Society of America (2004 - Present)

Clay Minerals Society (2004 - 2013)

SERVICE

UC Santa Barbara - Earth Research Institute

2016 Merit Committee for Promotion of Dr. Matt Rioux

UC Santa Barbara - Department of Earth Science

2012-2013 Speakers Club Committee

2010-2012 G.K. Gilbert Award Committee

2007-2009 Website Development Committee

2007-2009 Educational Outreach Committee

MENTORING

Master's Students

2018 Co-advising Justin Tran's master's thesis at UCSB on the morphology of hydrocarbon induced topography (along with David Valentine). Justin is funded through the Science, Mathematics, and Research for Transformation (SMART) Scholarship for Service Program from the Department of Defense.

Undergraduate Students

2016 Mentored and funded undergraduate research assistant Michael Christoffersen (class of 2019) working in the UT Paleomagnetism Laboratory and on developing an open source version of ChanGeom algorithms

2014 Two weeks field work in Argentina with Middlebury College undergraduates Perri Silverhart and Drew Gorin

2013 One week of field work along the Yakima River with Western Washington undergraduate Skyler Sorsby

2013 Two weeks field work in Argentina with Middlebury College undergraduate Sebastian Schell

2013 Co-mentored Lisa Luna's undergraduate thesis at Middlebury College on paleo-erosion rates from the Oran section, northwest Argentina (Principal advisor - William Amidon)

2012 Three weeks field work in Argentina with Middlebury College undergraduate Lisa Luna

2011 Mentored Josh Noble's GIS term project investigating tectonic rates from topographic metrics along the Goriganga River in the Indian Himalaya.

High School

2009 Funded, organized, and supervised a continuing education field research opportunity for a high school geology professor in the Himalaya (Kayo Ogilby from the Colorado Rocky Mountain School)

2009 Senior project mentor for Elli Mckinley from the Colorado Rocky Mountain School

SYNERGISTIC ACTIVITIES

Senior scientist on the SEEPS '15 (Studies of the Evolution and Ecology of Petroleum Systems) research cruise in the Gulf of Mexico (June 2015 on the R/V Atlantis) in charge of shipboard multibeam sonar bathymetry mapping.

Development of open source software (*ChanGeom*) and manuals to quantify channel planform geometry from freely available aerial and satellite imagery. (www.burchfisher.com/data.html)

Visiting researcher at the University of Wollongong, Australia (January 2012)

Visiting graduate student at the University of Potsdam, Germany (November 2010)

Leader/organizer of Dartmouth Earth Sciences Dept. field trip entitled "Structural Evolution of the Champlain Valley"

Assisted in organizing and producing the 2005 meeting of the Clay Minerals Society in Burlington, VT

JOURNAL REFEREE

Nature Geoscience, Remote Sensing of Environment, Geophysical Research Letters, Journal of Quaternary Science, Remote Sensing, Earth Surface Processes and Landforms, Geomorphology, Earth and Space Science, Sedimentary Geology, Sensors, Deep-Sea Research Part II, Scientia Agricola

WORKSHOPS ATTENDED

Geospatial Data Analysis in R, UT Summer Statistics Institute, Austin, TX, May 23-26, 2016

ExxonMobil Deepwater Reservoir Modeling Field Course, La Jolla, CA, June 2011

Google Earth: Visualizing the Possibilities for Geoscience Education & Research, GSA Penrose Conference, Googleplex, Mountain View, California, January 2011

Riegl Terrestrial LIDAR Training, Orlando, Florida, June 2008

Gulf of Maine River Barrier Removal Monitoring Workshop, Orono, Maine, June 2006

Rosgen Stream Geomorphology Seminar in Anchorage, Alaska, July 2003 (Level 1)

FIELD EXPERIENCE

Fluvial Geomorphology – Himalaya, southwestern U.S., northeastern U.S., Peru, Alaska, & Costa Rica

Quaternary Climate Change – Andes, Himalaya, southwestern U.S., Peru, Costa Rica, & Hawaii

Human Impacts on Natural Systems – Southwestern U.S., northeastern U.S., Alaska, & Hawaii

Soil Weathering & Geochemistry – Himalaya, Costa Rica, & Northeastern U.S.

Tectonics & Geomorphology – Andes, Himalaya, southwestern U.S., Peru, Costa Rica

Hydrocarbon Dispersal, Persistence, and Ecology – Gulf of Mexico

FIELD & LABORATORY TECHNIQUES

Field Work – Terrestrial LIDAR, surveying (handheld GPS, total station, laser range finding, and traditional methods), OSL, CRN, paleomagnetism, and U-Th/He sampling, sedimentology, stratigraphy, and structural/bedrock mapping.

Spatial & Numerical – Remote sensing (ENVI), GIS (ESRI, QGIS, GRASS, GMT), MATLAB, R, River Tools, MicroStation (CAD program for LIDAR), CloudCompare, and MB-Systems

Geochemical – Fallout (FRNs) and cosmogenic radionuclides (CRNs), U-series dating of soils, ICAPS major and trace element analyses, ICP-MS dating of ash and detrital zircons, and limited H and O isotope geochemistry.

Mineralogical – Magnetochronology, quantitative mineralogy (QXRD), XRD, SEM, and petrography.

RECENT COLLABORATORS

Bodo Bookhagen (UCSB); Douglas Burbank (UCSB); David Valentine (UCSB); Thomas Dunne (UCSB); Dirk Scherler (GFZ- Potsdam); Kelin Whipple (ASU); Colin Amos (Western Washington); Lee Harrison (NOAA); Vincent Godard (CEREGE); Frank Magilligan (Dartmouth College); James Kaste (College of William and Mary); Keith Nislow (USDA); Anthony Dosseto (University of Wollongong); Peter Ryan (Middlebury College); William Amidon (Middlebury College); Eitan Shelef (University of Pittsburgh); Sarah Bagby (Case Western Reserve)

ADDITIONAL INFORMATION

Proficient in Matlab, R, and Unix programming languages.

Very Proficient in Spanish, beginner in French, hopeless with Chinese and Hindi

Member of "Otter Nonsense" improv comedy group, co-host of radio game show "Moneyball", former whitewater kayak slalom racer, and enthusiastically mediocre musician.

PRESENTATIONS & ABSTRACTS † Undergraduate work

33. **Fisher, G.B.**, W.H. Amidon, D.W. Burbank, and †L.V. Luna (2016), Late Miocene to early Pleistocene paleo-erosion rates and provenance change in the NE Argentinian Andes: Apparent coupling of sediment fluxes with 400-kyr eccentricity cycles, *EGU General Assembly*, EGU2016-5310.
32. **Fisher, G.B.**, W.H. Amidon, †L.V. Luna, and D.W. Burbank (2015), Tectonic and climatic implications of late Miocene to Pleistocene (5.8-1.8 Ma) paleo-erosion rates from the Rio Iruya Canyon, northwest Argentina (23°S), *Eos Trans. AGU*, T13C-3009.
31. Bagby, S.C., **G.B. Fisher**, C.M. Reddy, and D.L. Valentine (2014), Deposition and biodegradation of submerged oil from the Deepwater Horizon, *Eos Trans. AGU*, OS51B-0980.
30. Harrison, L.R., T. Dunne, and **G.B. Fisher** (2014), Hydraulic and geomorphic processes in an overbank flood along a gravel-bed, meandering river: implications for chute formation, *Eos Trans. AGU*, EP53D-3693.
29. †Schell, J.S., †L.V. Luna, W.H. Amidon, **G.B. Fisher**, and D.W. Burbank (2014), Long-term erosion rate record from the Andean foreland, NW Argentina, *GSA Abstracts with Programs*, v. 46, n. 6, Oct 2014.
28. †Sorsby, S., C. Amos, P.R. Bierman, K. Hanson, D.H. Rood, **G.B. Fisher**, and H.M. Kelsey (2014), Uplift and incision of the Yakima River canyon from channel planform mapping and cosmogenic ²⁶Al/¹⁰Be isochron dating, *GSA Abstracts with Programs*, v. 46, n. 5, May 2014
27. **Fisher, G.B.**, B. Bookhagen, D.W. Burbank, K.X. Whipple, and V. Godard (2013), Landscape drivers, signatures, and erosion rates from the western Himalaya using detrital Beryllium-10, *Eos Trans. AGU*, T24C-06.
26. †Luna, L.V., **G.B. Fisher**, W.H. Amidon, D.W. Burbank, and B. Bookhagen (2013), Plio-Pleistocene cosmogenic erosion rates of the Northwestern Argentine Andes, *Eos Trans. AGU*, EP23B-06.
25. †Luna, L.V., W.H., Amidon, **G.B. Fisher**, and D.W. Burbank (2013), Cosmogenic ¹⁰Be erosion rate estimates between 3.2 and 1 Ma in the Rio Iruya watershed, northwestern Argentina, *GSA Abstracts with Programs*, v. 45, n. 1, March 2013.
24. Godard, V., G.E. Tucker, **G.B. Fisher**, D.W. Burbank, and B. Bookhagen (2012), Frequency-dependent response of landscapes to climatic forcing, *Eos Trans. AGU*, EP53C-1057.
23. Harrison, L.R., T. Dunne, and **G.B. Fisher** (2012), Hydraulic interactions between a meandering river channel and its floodplain during an overbank flood, *7th Biennial Bay-Delta Science Conference*, October 16-18, Sacramento, CA

22. **Fisher, G.B.**, B. Bookhagen, and D.W. Burbank (2011), High-resolution channel widths and erosion along the entire Indus River, *Eos Trans. AGU*, EP23C-0762.
21. Amos, C.B., J.R. Unruh, A. Lutz, **G.B. Fisher**, K. Kelson, D.H. Rood, and A.S. Jayko (2011), Lithospheric control on spatial patterns of active faulting in the southeastern Sierra Nevada, California, *Eos Trans. AGU*, T31B-2342.
20. Godard, V., D.W. Burbank, D.L. Bourlès, B. Bookhagen, R. Braucher, and **G.B. Fisher** (2011), Constraining catchment-scale glacial erosion using a global inversion of detrital CRN data in the Himalayas of central Nepal, EGU Meeting 2011 - Vienna. *Geophysical Research Abstracts*, 13, EGU2011-1447.
19. **Fisher, G.B.**, B. Bookhagen, and D.W. Burbank (2011), Utilizing high-resolution Google Earth derived channel widths to illuminate bedrock channel responses to climate-tectonic regimes along the Indus River, *GSA Penrose Conference on Google Earth*, January 4-8, Googleplex, Mountain View, CA.
18. Amos, C.B., R. Burgmann, A.S. Jayko, **G.B. Fisher**, and D.H. Rood (2010), Temporal patterns of slip rate on the Little Lake fault, eastern California shear zone, from terrestrial LiDAR, cosmogenic radionuclides, and InSAR analysis, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract T44A-03.
17. Magilligan, F.J., **G.B. Fisher**, P.B. Goldstein, and B.C. Bostick (2010), Regional hydroclimatology of the Peruvian Atacama Desert and its relation to the El Niño-Southern Oscillation, *Eos Trans. AGU*, PP34B-01.
16. Amos, C.B., **G.B. Fisher**, D.H. Rood, A.S. Jayko, and R. Burgmann (2010), New terrestrial LiDAR and cosmogenic radionuclide constraints on the Little Lake fault, eastern California shear zone, *GSA Abstracts with Programs*, v. 42, n. 5, p. 134, November 2010.
15. **Fisher, G.B.**, B. Bookhagen, and D.W. Burbank (2010), Climate-tectonic linkages in the Himalaya: Implications for landscape evolution in tectonically active orogenic systems, *ExxonMobil Student Scientist Technology Conference*, Houston, TX, January 6-9.
14. **Fisher, G.B.**, F.J. Magilligan, J.M. Kaste, and K.H. Nislow (2009), Constraining the timescales of sediment sequestration associated with large woody debris using cosmogenic beryllium-7, *Annual Mtg. of the Association of American Geographers*, Las Vegas, NV.
13. Magilligan, F.J., **G.B. Fisher**, and K.H. Nislow (2009), The geomorphic function and characteristics of large woody debris in low gradient rivers, coastal Maine, USA, *Annual Mtg. of the Assoc. of American Geographers*, Las Vegas, NV.
12. Munroe, J.S., L.B. Corbett, L.T. Duran, **G.B. Fisher**, A.K. Peters, and B.J. Laabs (2009), Grain-size data from lacustrine sedimentary records provide constraints on the timing of alpine loess deposition in the Uinta Mountains of northeastern Utah, *GSA Abstracts with Programs*, v. 41, n. 3, p. 6, March 2009.
11. **Fisher, G.B.**, B. Bookhagen, R. Perroy, and D.W. Burbank (2008), Exploring channel initiation thresholds across varying resolutions of topography and DEM creation techniques, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl.
10. Magilligan, F.J., J.M. Kaste, C.E. Renshaw, **G.B. Fisher**, and K.H. Nislow (2008), Application of fallout radionuclides as indicators of eco-geomorphic adjustments to dams, *Eos Trans. AGU*, 89 (53), Fall Meet. Suppl.
9. Magilligan, F.J., P.B. Goldstein, **G.B. Fisher**, B.C. Bostick, and R.B. Manners (2008), Late Quaternary hydroclimatology of a hyper-arid Andean watershed: Climate change, floods, and hydrologic responses to the El Niño-Southern Oscillation in the Atacama Desert, *39th Annual Binghamton Geomorphology Symposium*, October 2008, Austin, TX.

8. **Fisher, G.B.**, F.J. Magilligan, J.M. Kaste, and K.H. Nislow (2007), Constraining the timescales of sediment sequestration associated with large woody debris using cosmogenic beryllium-7, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl.
7. Magilligan, F.J., **G.B. Fisher**, K.H. Nislow, J. Wright, and G. Mackey (2006), Large woody debris characteristics in Maine rivers: Its frequency, geometry, and role in sediment storage, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl.
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