

William B. Ouimet

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Assistant Professor
Department of Geography and Center for Integrative Geosciences

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Research Disciplines/Keywords

earth surface processes; geomorphology; physical geography; landscape evolution; tectonic geomorphology; fluvial geomorphology; rivers; hillslope processes; landslides; landforms; erosion; cosmogenic radio nuclides; thermochronology; GIS; LiDAR; critical zone dynamics

Professional Preparation

<i>Undergraduate:</i>	B.A., 2001	Williams College	Geology and Mathematics
<i>Graduate:</i>	Ph.D., 2007	Mass. Inst. of Tech. (MIT)	Geology and Geochemistry
<i>Postdoctoral:</i>	2007-2008	Pennsylvania State Univ.	Geosciences

Professional Appointments

2011-pres.	Assistant Professor, University of Connecticut, Department of Geography and Center for Integrative Geosciences
2009-2010	Visiting Assistant Professor, Amherst College, Department of Geology
2008-2009	Visiting Assistant Professor, Colorado College, Department of Geology

UConn Affiliations

Center for Environmental Science and Engineering (CESE) – Affiliated Faculty
Environmental Sciences Program (ENVS) – related course offerings

Courses Taught (*includes Advanced GRAD version by same title)

UConn: Study Abroad: Field Studies in Taiwan (January 2013, 2015, 2017)
UConn: GIS and Remote Sensing for Geoscience Applications (Sp12, '13*, '14*, '16* and '17*)
UConn: Fluvial Geomorphology (Sp11*, Fa11*, Fa13*, Fa14*, Fa15, Fa16*)
UConn: Global Climate and Natural Disasters (Fa11, Fa13, Fa15)
UConn: Earth Surface Processes (Fall 2012)
Amherst College: Geomorphology and Landscape Evolution (Fall 2009, 2010)
Amherst College: Geological and Environmental Analysis of Landscapes (Spring 2010)
Amherst College: Surficial Earth Dynamics (Spring 2010) – *co-taught*
Amherst College: Introduction to Geology (Fall 2009) - *lab professor*
Colorado College: Colorado Plateau Field Seminar (Spring 2009)
Colorado College: Surface Processes and Geomorphology (Fall 2008)
Colorado College: Intro Physical Geology (Fall 2008; Spring 2009)
Colorado College: Geohazards and Natural Disasters (Fall 2008)

Research Advising

Undergraduate

Sean Gonzalez (Geosciences, UConn), Spring 2017, Lab/Independent Research Advisor
Kyle Farrell (Geosciences, UConn), Fall 2016-present, Lab/Independent Research Advisor
Judy Taylor (Geosciences, UConn), Fall 2016-present, Lab/Independent Research Advisor

Max Fortin (Geography, UConn), Fall 2016, Independent Study Advisor
Cheyenne Haverfield (Geosciences, UConn), Fall 2016, Independent Study Advisor
Richard Ellsworth (Geography, UConn), 2016-present, Independent Research Advisor
Nathan Corcoran (Geosciences, UConn), 2015-2016, Undergraduate Thesis Advisor
Chad Fagan (Envi. Sci. & GSCI, UConn), 2015-2016, Undergraduate Thesis Co-Advisor
Dana Yakabowskas (Geosciences, UConn), Fall 2015, Independent Study Advisor
Greg Harris (Geosciences, UConn), 2014-2015, Undergraduate Thesis Co-Advisor
Ryan Filbin (Geography, UConn), Spring 2015, Independent Study Advisor
Zack Raslan (Geography, UConn), Fall 2014, Independent Study Advisor
Sam Dow (Geosciences, UConn), 2013-2014, Undergraduate Thesis Advisor
Katherine Morrow (Envi. Sci., UConn), 2013-2014, Undergraduate Thesis Advisor
Hannah Mondrach (Geosciences, UConn), 2012-2013, Undergraduate Thesis Advisor
Abbey Valletta (Geosciences, UConn), 2012-2013, Undergraduate Thesis Advisor
Jake Conshick (Natural Resources, UConn), Fall 2012, Independent Study Advisor
James Winkler (Geosciences, UConn), 2011-2012, Undergraduate Thesis Advisor
Cianna Wysznytzky (Geology, Amherst College), 2010-2011, Undergraduate Thesis Advisor
Keck Geology Consortium REU (supervising professor)
2015-2016, associated supervision of 6 Undergraduate Theses
2014-2015, associated supervision of 7 Undergraduate Theses
2012-2013, associated supervision of 7 Undergraduate Theses
2011-2012, associated supervision of 3 Undergraduate Theses
2010-2011, associated supervision of 9 Undergraduate Theses

Graduate

Master's Advising

Caitlin McManimon (Geosciences), 2016-present, *Major Advisor*
Greg Harris (Geosciences), 2015-present, *committee member*
Han-Cheng Yu (Geosciences), 2015-present, *committee member*
Lindsey Belliveau (Geosciences), 2014-2016, *Major Advisor*
Thomas Schenck (Geosciences), 2014-2016, *Major Advisor*
Katharine Truong (Geosciences), 2014-2016, *committee member*
Eric Henry (Natural Resources), 2013-2016, *committee member*
James Farrell (Geosciences), 2013-2015, *committee member*
Stephanie Walker (Geography), 2014-2015, *committee member*
Amberlee Nicoulin (Geosciences), 2012-2014, *Major Advisor*
Ellen Lamont (Geosciences), 2012-2014, *committee member*
Neil Shea (Geosciences), 2011-2013, *Major Advisor*
Joshua Strunk (Geography), 2011-2012, *Major Advisor*
David Mirakian (Geosciences), 2011-2012, *committee member*
Jon Pollack (Geography), 2011-2012, *committee member*

Ph.D. Advising

Queenie Chang (Geosciences), 2016-present, *Major Co-Advisor*
Dawn Beamer (Geosciences), 2016-present, *committee member*
Neil Oculi (Geography), 2016-present, *committee member*
Weixing Zhang (Geography), 2014-present, *committee member*
Michael Howser (Geography), 2014-present, *committee member*
Megan McCusker (Geography), 2013-present, *Major Advisor*
Katharine Johnson (Geography), 2012-2016, *Major Advisor*
Pedro Val (Syracuse University, Geology), 2014-2016, *committee member*
Chung Huang (Geosciences), 2011-2015, *committee member*
Cary Lynch (Geography), 2011-2013, *committee member*

Breanne Clifton (Anthropology), 2013, *exam committee member*
Maria Eugenia (Civil Engineering), 2013, *exam committee member*
Denise Burchsted (Geosciences), 2011-2012, *committee member*

Grants

- Ouimet, W., PI, National Science Foundation (NSF) Award #1220453; \$475,000 through BCS GSS and EAR GLD; Title: *CAREER: Linking Land-use Dynamics with Anthropocene Sedimentation*; Status: ACTIVE; April 1, 2017–March 30, 2022
- Ouimet, W., co-PI, UCONN Research Excellence Program; \$50,000; Title: *Creating New Opportunities for International Research in Disaster Science*; Status: ACTIVE; July 1, 2016– June 30, 2017
- Ouimet, W., co-PI, National Science Foundation (NSF) Award #1220453; \$405,000 through the Earth Sciences (EAR) Tectonics Program and Office of International Science and Engineering (OISE); Title: *Collaborative Research: Non-equilibrium topography and crustal-scale deformation in an arc-continent collision, Taiwan*; Status: COMPLETED; September 1, 2012 – July 31, 2016
- Ouimet, W., PI, Keck Geology Consortium, *Holocene Environmental Change and Human Impacts in southern New England*; \$43,200 Status: COMPLETED; April 2015 – May 2016
- Ouimet, W., co-PI, Keck Geology Consortium, *Fire and catastrophic flooding, Fourmile catchment, Front Range, Colorado*; \$40,200; Status: COMPLETED; June 2014 – May 2015
- Ouimet, W., PI, National Science Foundation (NSF) Award #1401260; \$15,054 through the Geomorphology and Land-use Dynamics (GLD); Title: *RAPID: Characterizing Sediment Mobilization and Landscape Response to the Combined Effects of Wildfire and Extreme Flooding along Fourmile Canyon, Front Range Colorado*; Status: COMPLETED; November 1, 2014 – September, 30, 2014
- Ouimet, W., PI, University of Connecticut Research Foundation; \$24,969; Title: *Examine the structure, age and evolution of 'Critical Zone' soils, Gordon Gulch, Front Range, Colorado*; Status: COMPLETED; January 1, 2012 – December 31, 2012
- Ouimet, W., co-PI, Keck Geology Consortium, Interdisciplinary studies in the Critical Zone, Boulder Creek catchment, Front Range, Colorado, \$36,000, Status: COMPLETED; June 2012 – May 2013
- Ouimet, W., co-PI, Keck Geology Consortium, Interdisciplinary studies in the Critical Zone, Boulder Creek catchment, Front Range, Colorado, \$17,100, Status: COMPLETED; June 2011 – May 2012
- Ouimet, W., co-PI, Keck Geology Consortium, Interdisciplinary studies in the Critical Zone, Boulder Creek catchment, Front Range, Colorado, \$38,200, Status: COMPLETED; June 2010 – May 2011
- Ouimet, W., PI, Amherst College Faculty Research Award; \$8295 for Course development; Title: *Field equipment and remote sensing software for the Geological and Environmental Analysis of Landscapes*; Awarded: January 1, 2010; Status: COMPLETED

Professional Accomplishments and Highlights

- Invited Speaker, Modeling Culture: 3D Archaeology and the Future of the Past (Santa Cruz, CA), April 2016 – LiDAR; Archaeology
- Invited Speaker, Mohawk Watershed Symposium, March 2016 – LiDAR
- Keynote Speaker, Keck Geology Symposium, April 2015
- Invited Speaker, Institute for American Indian Studies, Nov. 2014 – LiDAR; Archaeology
- Invited Speaker, GSA, Fall 2014 – LiDAR Analysis, New England; Meteoric ¹⁰Be, Colorado
- Invited Speaker, GSA, Fall 2013 – Critical Zone Studies
- Selected to write a News and Views for *Nature Geoscience* in Sept. 2011

- Invited Speaker, AGU, Fall 2010 – Landslides and Landscape Evolution
- Teaching Assistant Excellence Prize, Massachusetts Institute of Technology, Spring 2005 - Introductory Geology

Synergistic Activities

- Session co-convenor for EGU (2017) - Geomorphological and (palaeo-)pedological records of natural environmental factors and human impact
- Editorial Board for GSA journal *Lithosphere* (Sept. 2013-present)
- Geological Society of America QG&G Student Grant Proposal Review Panel (2013, 2016)
- Involvement in the NSF Funded/REU related Keck Geology Consortium as a supervising professor (2010-2013 and 2014-2015 focused on Colorado with David Dethier, Williams College; 2015-2016 focused on southern New England with Mike Hren, UConn)
 - 36 undergraduate theses/projects over three 5 years
- Session convenor for NEGSA (2015, 2016) – Pleistocene to Anthropocene Landscape Evolution in the Northeastern U.S.
- NSF Panel Participant (Fall 2013)
- Session convenor for AGU (2013, 2014) – Seismology, Active Tectonics and Geomorphology in South and East Asia
- Organizing Committee Member and Workshop/fieldtrip Co-leader for the 2012 MYRES Meeting (Meeting of Young Researchers in Earth Sciences) held August 8-12, 2012, in Salt Lake City, Utah, USA. This workshop focused on "The Sedimentary Record of Landscape Dynamics" and brought together geomorphologists, stratigraphers, sedimentologists, and geodynamicists interested in long-timescale Earth-surface processes. Funded through NSF (\$70,000).
- Session convenor for NE GSA (2012) - The Legacy of Humans and Glaciation in Northeastern Rivers
- Session convenor for AGU (2009) - Putting the M 7.9 Wenchuan Earthquake in Context: Evolution of the Longmen Shan and Eastern Margin of Tibet
- Peer reviewer for *Nature*, *Nature Geoscience*, *Science*, *Geology*, *GSA Bulletin*, *Earth Surface Processes and Landforms*, *Geomorphology*, *Proceedings of the National Academy of Sciences*, *JGR – Earth Surface*, *Remote Sensing*, *Basin Research*, *Tectonophysics*, *Geosphere*, *Earth and Planetary Science Letters* and National Science Foundation (NSF)

PUBLICATIONS (*graduate student author; ^undergraduate student author)

Referred Publications (ACCEPTED/In Press):

Wicherski[^], W., Dethier, D., and **Ouimet, W.**, 2017, Erosion and channel changes due to extreme flooding in a mountain stream, Fourmile Canyon, Colorado, *Geomorphology*, <http://dx.doi.org/10.1016/j.geomorph.2017.03.030>

Referred Publications (PUBLISHED):

Zhang, W., Li, W., Zhang, C. and **Ouimet, W.**, 2017, Detecting horizontal and vertical urban growth from medium resolution imagery and its relationships with major socioeconomic factors, *International Journal of Remote Sensing*, 38:12, 3704-3734, DOI: 10.1080/01431161.2017.1302113

Whipple, K., Forte, A., DiBiase, R., Gasparini, N. and **Ouimet, W.**, 2016, Timescales of landscape response to divide migration and drainage capture: Implications for the role of divide mobility in landscape evolution, *JGR-Earth Surface*, DOI: 10.1002/2016JF003973

- Raab, T., Hirsch, F., **Ouimet, W.**, Johnson, K., Dethier, D. and Raab, A., **2016**, Architecture of Relict Charcoal Hearths (RCHs) in Northwestern Connecticut, USA, *GeoArchaeology*, 2017:00:1–9. doi: 10.1002/gea.21614
- Whipple, K., DiBiase, R., **Ouimet, W.** and Forte, A., **2016**, Preservation or Piracy: Diagnosing low-relief, high-elevation surface formation mechanisms, *Geology*, DOI:10.1130/G38490.1
- Schmidt, A. H., Neilson, T. B., Bierman, P. R., Rood, D. H., **Ouimet, W. B.**, and Sosa Gonzalez, V., **2016**, Influence of topography and human activity on apparent in situ ¹⁰Be-derived erosion rates in Yunnan, SW China, *Earth Surface Dynamics*, 4, 819-830, doi:10.5194/esurf-4-819-2016
- Johnson*, K and **Ouimet, W.**, **2016**, Physical properties and spatial controls of stone walls in the northeastern USA: implications for Anthropocene studies of 17th to early 20th century agriculture, *Anthropocene*, DOI: 10.1016/j.ancene.2016.07.001
- Hsu*, W.H., Byrne, T. **Ouimet, W.**, Lee, Y.H, Chen, Y.G., Van Soest, M. and Hodges, K., **2016**, Pleistocene onset of rapid, punctuated exhumation in the eastern Central Range of the Taiwan orogenic belt, *Geology*, doi:10.1130/G37914.1
- Huang*, C., Byrne, T., **Ouimet, W.**, Fei, L.Y., Lin, C.W., Hu, J.C., and Wang, Y.B., **2016**, Tectonic foliations and the distribution of landslides in the southern Central Range, Taiwan, *Tectonophysics*, <http://dx.doi.org/10.1016/j.tecto.2016.06.004>
- Hellmer[^], M.C., Rios[^], B.A., **Ouimet, W.B.**, and Sibley[^], T.R., **2015**, Ice storms, tree throw, and hillslope sediment transport in northern hardwood forests. *Earth Surface Processes and Landforms*. DOI: 10.1002/esp.3690
- Foster*, M.A., Anderson, R.S., Wyshnytzky[^], C.E., **Ouimet, W.B.**, and Dethier, D.P., **2015**, Hillslope lowering rates and mobile-regolith residence times from in situ and meteoric 10Be analysis, Boulder Creek Critical Zone Observatory, Colorado. *Geological Society of America Bulletin*, v. 127; no. 5/6; p. 862–878; doi: 10.1130/B31115.1
- Ouimet, W.**, Dethier, D., Bierman, P., Wyshnytzky[^], C., Shea*, N., and Rood, D.H., **2015**, Spatial and temporal variations in meteoric 10 Be inventories and long-term deposition rates, Colorado Front Range. *Quaternary Science Reviews*, 109, 1-12.
- Wyshnytzky[^], C.E., **Ouimet, W.B.**, McCarthy[^], J., Dethier, D.P., Shroba, R.R., Bierman, P.R., and Rood, D.H., **2015**, Meteoric 10 Be, clay, and extractable iron depth profiles in the Colorado Front Range: Implications for understanding soil mixing and erosion. *CATENA*, 127, 32-45.
- Rosenberg[^], R., Kirby, E., Aslan, A., Karlstrom, K., Heizler, M. and **Ouimet, W.** **2014**, Late Miocene erosion and evolution of topography along the western slope of the Colorado Rockies, *GeoSphere*; v. 10; no. 4, doi:10.1130/GES00989.1
- Johnson*, K. and **Ouimet, W.**, **2014**, Rediscovering the lost archaeological landscape of southern New England using airborne light detection and ranging (LiDAR), *Journal of Archaeological Science* v. 43, pg. 9-20, <http://dx.doi.org/10.1016/j.jas.2013.12.004>
- Dethier, D.P., **Ouimet, W.**, Bierman, P.R., Rood, D.H., and Balco, G., **2014**, Basins and Bedrock: spatial variation in ¹⁰Be erosion rates and increasing relief in the southern Rocky Mountains, USA, *Geology*, v. 42; no. 2; p. 167–170, doi:10.1130/G34922.
- Darling, A.L.* , Karlstrom, K.E., Granger, D.E., Aslan, A., Kirby, E., **Ouimet, W.**, Lazear, G.D., Coblenz, D.D., Cole, R.D., **2012**, New incision rates along the Colorado River system based on cosmogenic burial dating of terraces: implications for regional controls on Quaternary incision: *Geosphere*; October 2012; v. 8; no. 5; p. 1020–1041, doi:10.1130/GES00724.1
- Mirakian, D.* , Crespi, J., Byrne, T., Huang, C.* , **Ouimet, W.** and Lewis, J., **2012**, Tectonic implications of non-parallel topographic and structural curvature in the higher elevations of an active collision zone, Taiwan, *Lithosphere*, L232.1, doi:10.1130/L232.1

- Karlstrom, K.E., Coblenz, D., Dueker, K., **Ouimet, W.**, Kirby, E., Van Wijk, J., Schmandt, B.*, Kelley, S., Lazear, G., Crossey, L. J., Crow, R., Aslan, A., Darling, A.*, Aster, R., MacCarthy, J., Hansen, S.M., Stachnik, J., Stockli, D.F., Hoffman, M., McKeon, R.*, Feldman, J., Heizler, M., Donahue, M.S., and the CREST working group, **2012**, Mantle-driven dynamic uplift of the Rocky Mountains and Colorado Plateau and its surface response: Toward a unified hypothesis, *Lithosphere*, v.4, p. 3-22, doi: 10.1130/L150.1
- Ouimet, W.**, **2011**, The Hills came Tumbling Down, *Nature Geoscience*, v. 4, pp. 424–425, doi:10.1038/ngeo1199
- Kirby, E. and **Ouimet, W.**, **2011**, Tectonic geomorphology along the eastern margin of Tibet: Insights into the pattern and processes of active deformation adjacent to the Sichuan Basin; in: Growth and Collapse of the Tibetan Plateau, edited by R. Gloaguen & L. Ratschbacher, *Geological Society, London, Special Publications 2011*; v. 353; p. 165-188 doi: 10.1144/SP353.9
- Ouimet, W.**, and K. Cook, **2010**, Building the central Andes through axial lower crustal flow, *Tectonics*, 29, v. 29, TC3010, doi:10.1029/2009TC002460
- Ouimet, W.**, Whipple, K., Royden, L., Reiners, P., Hodges, K., and Pringle, M., **2010**, Regional Incision of the Eastern Margin of the Tibetan Plateau, *Lithosphere*, v. 2, no. 1, p. 50-63, doi: 10.1130/L57.1
- DiBiase, R., Whipple, K., Heimsath, A. and **Ouimet, W.**, **2010**, Landscape form and millennial erosion rates in the San Gabriel Mountains, CA, *Earth and Planetary Science Letters*, v. 289 (1-2), p. 134-144, doi:10.1016/j.epsl.2009.10.036
- Ouimet, W.**, **2010**, Landslides associated with the May 12, 2008 Wenchuan Earthquake: Implications for the erosion and tectonic evolution of the Longmen Shan, *Tectonophysics*, v. 491 (1-4), pg. 244-252, doi:10.1016/j.tecto.2009.09.012
- Ouimet, W.**, Whipple, K., and Granger, D., **2009**, Beyond threshold hillslopes: Channel adjustment to base-level fall in tectonically active mountain ranges: *Geology*, v. 37, p. 579-582, doi: 10.1130/G30013A.1
- Ouimet, W.**, Whipple, K.X., Crosby, B.T., Johnson, J.P., and Schildgen, T.F., **2008**, Epigenetic Gorges in Fluvial Landscapes: *Earth Surface Processes Landforms*, DOI: 10.1002/ESP1650
- Ouimet, W.**, Whipple, K., Royden, L., Sun, Z. and Chen, Z., **2007**, The Influence of Large Landslides on River Incision in a Transient Landscape: Eastern Margin of the Tibetan Plateau (Sichuan, China), *Geological Society of America Bulletin*, vol. 119 (11), pp. 1462-1476; DOI: 10.1130/B26136.1
- ** This paper was featured at Nature-Geoscience.com (www.nature.com/ngeo) – Nov. 2007**
- Ouimet, W.** and Dethier, D., **2002**, Modeling Sediment Flux from Birch Brook, an Undisturbed Catchment in Northwestern Massachusetts, *Northeastern Geology and Environmental Sciences*, v. 24, no. 3

Conference/Symposium Proceedings (PUBLISHED):

- Ouimet, W.** and Hren, M., **2016**, *Keck Connecticut Project: Holocene Environmental Change and Human Impacts in southern New England*, in 'Proceedings of the Twenty-Ninth Annual Keck Research Symposium in Geology', April 2016
- Ouimet, W.** and Johnson*, K., **2016**, Quantifying Early Anthropocene Landscape Change and its Effects on Watershed Processes in southern New England, *Proceedings of the 2016 Mohawk Watershed Symposium*, Union College, Schenectady, NY, March 18, 2016
- Ouimet, W.**, Dethier, D. and Kaste, J., **2015**, Keck Colorado Project: Fire and Catastrophic Flooding, Fourmile Catchment, Front Range, Colorado, *in* 'Proceedings of the Twenty-Eighth Annual Keck Research Symposium in Geology', April 2015.
- Dethier, D. and **Ouimet, W.**, **2013**, Keck Colorado Project: Interdisciplinary Studies in the Critical Zone, Boulder Creek Catchment, Front Range, Colorado, *in* 'Proceedings of the Twenty-Sixth Annual Keck Research Symposium in Geology', April 2013.

Dethier, D. and **Ouimet, W.**, 2012, Keck Colorado Project: Interdisciplinary Studies in the Critical Zone, Boulder Creek Catchment, Front Range, Colorado, *in* 'Proceedings of the Twenty-Fifth Annual Keck Research Symposium in Geology', April 2012.

Dethier, D. and **Ouimet, W.**, 2011, Interdisciplinary Studies in the Critical Zone, Boulder Creek Catchment, Front Range, Colorado, *in* 'Proceedings of the Twenty-Third Annual Keck Research Symposium in Geology', April 2011.

Fieldtrip Guidebooks (non-published):

Ouimet, W., Hajek, L. and Draut, A., 2012, Fieldtrip Guidebook for 2012 MYRES Meeting, held August 11-12, 2012 in Salt Lake City, Utah, USA

Theses:

Ouimet, W., 2007, Dissecting the Eastern Margin of the Tibetan Plateau: A Study of Landslides, Erosion and River Incision in a Transient Landscape, Massachusetts Institute of Technology PhD Thesis, 197 pages

Ouimet, W., 2001, Sediment budgets and stream terraces: reconstructing the effects of historic land-use changes on sediment transport in the Birch Brook Catchment, Massachusetts, Williams College BA Thesis, 120 pages

Abstracts/Presentations/Meetings:

Raab, T., Hirsch, F., **Ouimet, W.**, and Dethier, D., 2016, Soil stratigraphy of charcoal kiln remains (CKR) in the Litchfield Hills, CT, USA, Geophysical Research Abstracts Vol. 18, EGU2016-3477, 2016 EGU General Assembly

Ouimet, W. and Johnson*, K., 2016, Investigating 18th to early 20th century archaeological features and human impacts in southern New England using LIDAR, Modeling Culture: 3D Archaeology and the Future of the Past, Santa Cruz, CA, April 1, 2016

Ouimet, W. and Dethier, D., 2016, Investigating Holocene and Anthropocene landscape change and the legacy of 19th and 20th century mining using geomorphic and stratigraphic evidence in Fourmile Canyon, Colorado, Association of American Geographers 2016 Annual Meeting, San Francisco, CA

Johnson*, K. and **Ouimet, W.**, 2016, Investigating the spatial distribution of 18th – early 20th land use dynamics in Connecticut and implications for the Anthropocene in southern New England, Association of American Geographers 2016 Annual Meeting, San Francisco, CA

Hill*, M. and **Ouimet, W.**, 2016, Critical drainage area required for gully formation in southern New England, Association of American Geographers 2016 Annual Meeting, San Francisco, CA

Ouimet, W. and Johnson*, K., 2016, Quantifying Early Anthropocene Landscape Change and its Effects on Watershed Processes in southern New England, 2016 Mohawk Watershed Symposium, Union College, Schenectady, NY, March 18, 2016

Schenck*, T., **Ouimet, W.** and Fernandes, A., 2016, Characterizing Late Pleistocene And Holocene Flood Deposits in Eastern Connecticut, Geological Society of America Abstracts with Programs. Vol. 48, No. 2; doi: 10.1130/abs/2016NE-272715

Ignatiadis[^], M., **Ouimet, W.**, Johnson*, K. and Dethier, D., 2016, Charcoal Remains in Litchfield County Connecticut Record Widespread Hillslope Disturbance in the Iron Corridor From Mid-18th to Early 20th Centuries and Present Day Carbon Storage, Geological Society of America Abstracts with Programs. Vol. 48, No. 2; doi: 10.1130/abs/2016NE-272818

Kelleher[^], J., **Ouimet, W.** and Werner, A., 2016, Studying Anthropocene Sedimentation Behind a 19th-20th Century Dam in Western Connecticut, Geological Society of America Abstracts with Programs. Vol. 48, No. 2; doi: 10.1130/abs/2016NE-272164

- McManimon[^], C., Gilliakan, D., **Quimet, W.**, Hren, M. and Rodbell, D., 2016, The Affect of Land Use Change on Stable Isotope ($\Delta^{13}C$ And $\Delta^{15}N$) Values in Connecticut Wetlands During the Holocene, Geological Society of America Abstracts with Programs. Vol. 48, No. 2; doi: 10.1130/abs/2016NE-272294
- Fagan[^], C., Hren, M. and **Quimet, W.**, 2016, An Organic Molecular Record of Post-Glacial Climate and Fire Occurrence in a Southern New England Wetland Core, Geological Society of America Abstracts with Programs. Vol. 48, No. 2; doi: 10.1130/abs/2016NE-272539
- Corconan[^], N., **Quimet, W.** and Thomas, M., 2016, Assessing Coastal Erosion Hazard Vulnerability in Connecticut, Geological Society of America Abstracts with Programs. Vol. 48, No. 2; doi: 10.1130/abs/2016NE-272078
- Hsu^{*}, W.H., Byrne, T., **Quimet, W.**, Lee, Y.H., Chen, Y.G., Van Soest, M. and Hodges, K.V., 2015, Pleistocene onset of Simultaneous and Rapid Exhumation in the Eastern Central Range of the Taiwan Orogenic Belt, Abstract T33A-2913, 2015 AGU Fall Meeting
- Quimet, W.**, Byrne, T., Huang, C., Bierman, P., Lee, Y.H., Hsu^{*}, W.H. and Hsieh, M.L., 2015, Extreme landscape disequilibrium and slow erosion during rapid mountain building, Abstract T32B-02, 2015 AGU Fall Meeting
- Belliveau^{*}, L.C., **Quimet, W.**, Chan, Y.C. and Byrne, T., 2015, Exploring controls on sinuosity, terraces and river capture in the upper Dajia River, Taiwan, Abstract T53A-07, 2015 AGU Fall Meeting
- Byrne, T., Lin, A., Su, C.C., Lewis, J., Liu, C.S., **Quimet, W.**, Chen, T.T., and Huang, C., 2015, Linking anomalously low topographic relief in the Taiwan arc-continent collision to a submarine plateau south of the collision, Abstract T33A-2914, 2015 AGU Fall Meeting
- Huang, C., **Quimet, W.**, Byrne, T., Tung, H., Chen, Y.W., Kuo, Y.P., and Hu, J.C., 2015, Geomorphic Indices and Differential Uplift Patterns in the Southern Central Range, Taiwan, Abstract T53A-05, 2015 AGU Fall Meeting
- Schmidt, A., Neilson^{*}, T., Bierman, P., Sosa Gonzalez^{*}, V., Bower, J., Rood, D. and **Quimet, W.**, 2015, Using ^{10}Be and short-lived fallout radionuclides to track sediment movement through watersheds in Yunnan, China, Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p.240
- Wicherski[^], W., Dethier, D., **Quimet, W.** and Kaste, J., 2015, Fire and Flood in Fourmile Canyon, Colorado —Analyzing the Geomorphic Effects of Catastrophic Events Using Lidar and Field Studies, Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p.836
- Quimet, W.**, Dethier, D., Kotikian[^], M. and Wicherski[^], W., 2015, Quantifying 18th to early 20th century human impacts on hillslopes and sediment mobilization in southern New England and Colorado Front Range, Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p.240
- Johnson^{*}, K. and **Quimet, W.**, 2015, Impacts of terrain roughness on historic land use, stone wall construction, and sediment mass transfer in southern New England, Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p.239
- Dethier, D., **Quimet, W.** and Shea, N., 2015, From rock to dust: density changes during the transformation of Front Range granite to saprolite and soil, Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p.615
- Thorson, R., Park-Boush, L., Getty, P. and **Quimet, W.**, 2015, Five Pathways to Introductory Geoscience at UConn: A New Model, Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p.257
- Harris^{*}, G., Hren, M., **Quimet, W.** and Dethier, D., 2015, Investigating the Use of Polycyclic Aromatic Hydrocarbons (PAHs) as a Proxy for Holocene Forest Fires on the Colorado Front Range, Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p. 547
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- McCusker Hill*, M. and **Ouimet, W., 2015**, Gullies as Markers of Holocene and Anthropocene Environmental Change in southern New England. Association of American Geographers Annual Meeting, Chicago, IL.
- Wicherski[^], W., Dethier, D. and **Ouimet, W. 2015**. Geomorphic Effects of the September 2013 Flood in Fourmile Canyon, Colorado, Using Lidar and Field Studies. Geological Society of America Northeastern Section Meeting. Breton Woods, NH.
- Johnson*, K., **Ouimet, W.** Raslan[^], Z., **2015**, Geospatial and Lidar-Based Analysis of 18th to Early 20th Century Timber Harvesting and Charcoal Production in Southern New England. Geological Society of America Northeastern Section Meeting. Breton Woods, NH.
- McCusker Hill*, M. and **Ouimet, W., 2015**, Spatial Analysis of Gully Erosion in Southern New England. Geological Society of America Northeastern Section Meeting. Breton Woods, NH.
- Nicoulin*, A. and **Ouimet, W., 2015**, Bedrock Knickpoints, River Terraces and Post-Glacial Incision in Southern New England. Geological Society of America Northeastern Section Meeting. Breton Woods, NH.
- Belliveau*, L. and **Ouimet, W., 2015**, Suspended Sediment Loads in the Taiwan Strait and the Philippine Sea in Relation to Typhoon Activity. Geological Society of America Northeastern Section Meeting. Breton Woods, NH.
- Ouimet, W.**, Dethier, D., Shea*, N., Wyshnytzky[^], C. and Bierman, P., **2014**, Meteoric 10Be, Hillslope Erosion and Landscape Evolution along the Colorado Front Range, Geological Society of America Abstracts with Programs. Vol. 46, No. 6, p.241
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- Ouimet, W.**, Dethier, D., Kaste, J, Murphy, S., Purinton[^], B., Mondrach[^], H. and Abrahams[^], E., **2014**, Characterizing Sediment Mobilization and Landscape Response to Wildfire and Extreme Flooding using Short-Lived Fallout Radionuclides 137Cs and 210Pb, Colorado Front Range, Geological Society of America Abstracts with Programs. Vol. 46, No. 6, p.800
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- Johnson, K.* , **Ouimet, W., 2014**, "'Butted and bounded as followeth': LiDAR and the historical division of the landscape in southern New England", Society for Historical Archaeology Annual Meeting
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- Johnson, K.* and **Ouimet, W.**, **2013**, Uncovering the Past: GIS Analysis of Archaeological Features under New England Forests Using High Resolution Topographic Data (LiDAR) presented at the 2013 Northeast Arc Users Group (NEARC) Spring Meeting, Univ. of Massachusetts, May 14th
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- Shea, N.*, **Ouimet, W.**, Dethier, D., Bierman, P., Rood, D., **2013**, Spatial Variations in Mobile Regolith Thickness, Meteoric ¹⁰Be Concentration, and Sediment Storage in the Boulder Creek Critical Zone Observatory: Implications for Landscape Evolution and Hillslope Sediment Transport, *Geological Society of America Abstracts with Programs*. Vol. 45, No. 1, p.101 – presented at the GSA Northeastern Section Annual Meeting, Bretton Woods, NH, 18–20 March, 2013
- Ouimet, W.**, Byrne, T. and Huang, C.*, **2012**, Non-Equilibrium Topography in the southern Central Range of Taiwan, Abstract EP13B-0846 presented at the 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
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- Byrne, T., **Ouimet, W.**, Rau, R., Hsieh, M. and Lee, Y., **2012**, Evidence for Crustal-Scale

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Byrne, T., Huang, C.*, **Ouimet, W.**, Rau, R., Hsieh, M. and Lee, Y., 2011, Evidence for Crustal-Scale Imbrication and non-Equilibrium Topography in the Southern Central Range, Taiwan, Abstract T43J-05 presented at the 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.

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Dethier, D., McCarthy, J.^ and **Ouimet, W.**, 2011, Revisiting Long-Term Dustfall Rates and Chemistry, Colorado Front Range, Geological Society of America Abstracts with Programs, Vol. 43, No. 5, p. 336 – presented at the 2011 GSA Annual Meeting in Minneapolis, MN

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Darling, A.L.*, Karlstrom, K.E., Granger, D.E., Aslan, A., Kirby, E., **Ouimet, W.**, and Coblenz, D., 2010, New incision rates along the Colorado River system based on cosmogenic burial dating of terraces: implications for regional controls on differential incision, Abstract T21E-2215 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.

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Ouimet, W., Sibley, T.^ and Swanson, J.^, 2010, Tree Throw Erosion in western Massachusetts

- Associated with the December 2008 Ice Storm, Geological Society of America, Northeastern Section, 36th Annual Meeting, Geological Society of America Abstracts with Programs, Vol. 42, No. 1, p. 73
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- Ouimet, W.**, Kirby, E. and Karlstrom, K., **2009**, Tectonic, Lithologic and Climatic Controls on Stream Gradients across the Colorado Plateau and Rocky Mountains: AGU, Fall Meeting, San Francisco, CA
URL: <http://adsabs.harvard.edu/abs/2009AGUFMEP41B0607O>
- Kirby, E. and **Ouimet, W.** **2009**, INVITED, From earthquakes to mountains: Geomorphic constraints on the pattern of active deformation in eastern Tibet: AGU, Fall Meeting, San Francisco, CA
URL: <http://adsabs.harvard.edu/abs/2009AGUFM.T24B..03K>
- Darling, A., Karlstrom, K., Kirby, E., **Ouimet, W.**, Aslan, A., and Granger, D., **2009**, Incision history of the Colorado River system over the last several Ma from cosmogenic burial dating of high terrace gravels: AGU, Fall Meeting, San Francisco, CA
URL: <http://adsabs.harvard.edu/abs/2009AGUFM.T43D2154D>
- Karlstrom, K., Coblenz, D., **Ouimet, W.**, Kirby, E., van Wijk, J., Schmandt, B., Crossey, L., Crow, R., Kelley, S., McKeon, R., Aslan, A., Darling, A., Dueker, K., Aster, R., Lazear, G. and Hilton, D., **2009**, Dynamic uplift of the Colorado Rockies and western Colorado Plateau in the last 6 Ma driven by mantle flow and buoyancy: Evidence from the Colorado River region: AGU, Fall Meeting, San Francisco, CA
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- Darling, A., Karlstrom, K., Kirby, E., **Ouimet, W.**, **2009**, Comparison of the Modern Profiles and Discharge of the Green and Colorado Rivers and Implications for Epeirogenic Uplift of the Colorado Plateau and Rocky Mountains, Geological Society of America Abstracts with Programs, Vol. 41, No. 7, p. 306 – presented at the 2009 GSA Annual Meeting in Portland, OR
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- Ouimet, W.**, **2008**, Landslide erosion associated with the May 12, 2008 Sichuan Earthquake: Implications for the evolution of the Longmen Shan: AGU, Fall Meeting, San Francisco, CA
URL: <http://adsabs.harvard.edu/abs/2008AGUFM.T24B..04O>
- Karlstrom et al. (**W. Ouimet** 5th author), **2008**, Colorado River System of the Southwestern U.S.: Analysis of the Longitudinal Profile, Differential Incision, and Hypothesis for Dynamic Uplift and Rapid Incision in the Last 6 Ma: AGU, 2008 Fall Meeting, San Francisco, CA
URL: <http://adsabs.harvard.edu/abs/2008AGUFM.T11C1896K>
- Darling et al. (**W. Ouimet** 4th author), **2008**, Evaluating Neogene Uplift and Denudational History of the Colorado Rockies Using River Profiles and Incision Records: AGU, 2008 Fall Meeting, San Francisco, CA
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- Ouimet, W.**, Kirby, E., and Whipple, K., **2007**, Controls on channel width in large rivers dissecting the eastern margin of the Tibetan Plateau: AGU, Fall Meeting, San Francisco, CA
URL: <http://adsabs.harvard.edu/abs/2007AGUFM.H44B..07O>
- Ouimet, W.** and Whipple, K.X., **2007**, INVITED - Exploring the influence of large landslides on river incision and landscape evolution: Geological Society of America, Fall Meeting, Denver, CO
URL: https://gsa.confex.com/gsa/2007AM/finalprogram/abstract_131472.htm
- Ouimet, W.**, Whipple, K.X. and Granger, D., **2006**, Rates and patterns of short-term erosion on the eastern margin of the Tibetan Plateau, a transient landscape: AGU, 2006 Fall Mtg., San Francisco, CA

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Ouimet, W. and Cook, K.L., **2006**, Building the Andes through axial lower crustal flow: AGU, 2006 Fall Meeting, San Francisco, CA

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Ouimet, W., Whipple, K.X. and Royden, L.H., **2006**, Long and short-term erosion on the Eastern Margin of the Tibetan Plateau, a Transient Landscape: Geological Society of America, Fall Meeting, Philadelphia, PA

URL: https://gsa.confex.com/gsa/2006AM/finalprogram/abstract_114660.htm

Ouimet, W., Whipple, K.X. and Royden, L.H., **2005**, Long and short-term erosion and river incision on the eastern margin of the Tibetan plateau, a transient landscape: AGU, Fall Meeting, San Francisco, CA

URL: <http://adsabs.harvard.edu/abs/2005AGUFM.H31A1279O>

Whipple, K.X., Heimsath, A., **Ouimet, W.**, Crosby, B. and Wobus, C., **2005**, The Relation Between Topography and Millennial Erosion Rates in the San Gabriel Mountains, California: AGU, Fall Meeting, San Francisco, CA

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Ouimet, W., Whipple, K.X., Royden, L.H., and Granger, D., **2005**, Long transient response times of rivers in eastern Tibet to regional plateau uplift: The affect of mega-landslides: 2005 European Geosciences Union Spring Meeting, Vienna, Austria

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Ouimet, W. and Whipple, K., **2004**, Mega-landslides in eastern Tibet: Implications for landscape and river profile evolution, and the interpretation of tectonics from topography; AGU, Fall Meeting, San Francisco, CA

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Ouimet, W., Whipple, K., Kirby, E. and Clark, M., **2003**, Uplift and River Incision Within the Eastern Margin of the Tibetan Plateau from Regional Patterns of Channel Steepness: AGU, Fall Meeting, San Francisco, CA

URL: <http://adsabs.harvard.edu/abs/2003AGUFM.T21C0471O>

Dethier, D., **Ouimet, W.**, Bierman, P. and Finkel, R., **2002**, Long-term Erosion Rates derived from ¹⁰Be in Sediment from Small Catchments, Northern Front Range and Southern Wyoming: Geological Society of America, Fall Meeting, Denver, CO, Abstracts with Programs - Geological Society of America

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Ouimet, W. and Dethier, D., **2001**, Sediment budgets and stream terraces; reconstructing the effects of historic land-use on sediment transport in the Birch Brook catchment, Massachusetts: Geological Society of America, Northeastern Section, 36th Annual Meeting, Abstracts with Programs - Geological Society of America, 33 (1), p. 64

Professional Memberships

American Geophysical Union (AGU)
Geological Society of America (GSA)
American Association of Geographers (AAG)
Geological Society of Connecticut (GSC)

University of Connecticut Service

- Member: Ad-Hoc Committees (Space; External Review; Awards), Geosciences (January 2016 - present)
- Member: Visibility Committee, Geography (Jan-May, 2016)
- Member: GIS Certificate Committee, Geography (2015-2016)
- Member: Merit Advisory Committee, Geography (May-June, 2015)
- Member: 1000-level Curriculum Committee, Geosciences (March 2015-present)

- Member: Departmental Graduate Committee, Geography (Fall 2014-May 2015)
- Member: Departmental Curriculum Committee, Geography (Fall 2011-Spring 2014)
- Member: Search Committee, Tenure-track Assistant Professor in Geography (Fall 2013)
- Member: College of Liberal and Sciences Search Committee, Geochemistry Tenure-track Position (joint between the Department of Chemistry and Center for Integrative Geosciences) (Spring 2012)

Graduate and Post-doctoral Advisors:

- Royden, Leigh (PhD Advisor, Massachusetts Institute of Technology)
- Whipple, Kelin (PhD Advisor, Massachusetts Institute of Technology – now at Arizona State University)
- Kirby, Eric (postdoctoral Advisor, Penn State University – now at Oregon State University)

INVITED TALKS

- April 2015, Geology and Geography, **Dartmouth College**
- February 2014, Department of Geosciences, **University of Massachusetts**
- February 2013, Department of Earth and Environment Sciences, **Wesleyan College**
- November 2012, Department of Geosciences, **Williams College**
- November 2010, *Friends of the Whately Library and Whately Cultural Council*, **Whatley, MA**
- June 2010, Center for Integrative Geosciences, **University of Connecticut**
- April 2010, Dept. of Geology and Environmental Geosciences, **College of Charleston**
- February 2010, Department of Geology, **Middlebury College**
- February 2009, Department of Geology, **Amherst College**
- March 2008, Department of Geology, **Colorado College**
- November 2007, Department of Geosciences, **Williams College**
- October 2007, Department of Geosciences, **Pennsylvania State University**
- February 2007, Department of Geology and Geophysics, **Boston College**
- November 2006, School of Earth and Space Exploration, **Arizona State University**

ADDITIONAL FELLOWSHIPS, GRANTS AND ACADEMIC AWARDS

- **Post-Doctoral Research Fellowship on NSF Grant:** “Colorado Rockies Experiment and Seismic Transects (CREST): Time-space Patterns of Cenozoic Uplift-Magmatism and their Correspondence to the Aspen Anomaly” (Fall 2007 – Fall 2008)
- **Research Fellowship on NSF Grant:** “Geodynamic development of the SE part of the Tibetan Plateau during Cenozoic time” (Summer 2002 – Summer 2007)
- **MIT Teaching Fellowship:** Fall 2006 – Earth Surface Processes
- **MIT Teaching Fellowship:** Spring 2005 – Introductory Geology
- **MIT Departmental Student Grant:** Spring 2005 - Travel award for participation at the European Geosciences Union (EGU) General Assembly in Vienna, Austria
- **MIT Departmental Student Grant:** Fall 2004 – Research award for initiation of a monitoring program to measure erosion in New England bedrock channels
- **MIT Departmental Student Grant:** Fall 2002 – Travel award for participation at the GSA National Meeting in Denver, Colorado
- **Graduation prizes, Williams College, June 2001:** Highest Honors in Geosciences, Cum Laude, Sigma Xi, Geology Prize, Mineralogy Prize, and Male Scholar-Athlete Prize
- **Williams College Awards:** Dean’s List, Regional Academic All-American (1999, 2000)