

## William B. Ouimet

University of Connecticut, Storrs, CT  
Associate Professor, Dept. of Earth Sciences  
(*joint appointment* in the Dept. of Geography)

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### 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 University	Geosciences

### Professional Appointments

2018-pres.	Associate Professor, University of Connecticut, Department of Earth Sciences ( <i>joint appointment</i> in the Department of Geography)
2011-2018	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

### Research Disciplines/Keywords

earth surface processes; geomorphology; physical geography; landscape evolution; tectonic geomorphology; fluvial geomorphology; rivers; soils; hillslope processes; landslides; landforms; erosion; GIS; remote sensing; LiDAR; critical zone dynamics; human-environment interactions; Quaternary environmental change; geoarchaeology

### Awards and Recognition

- Recipient of an NSF CAREER Award
- Awarded ~\$2,495,000 in external funding to date (~\$1,060,000 as PI) and ~\$446,000 in internal UConn funding (~\$246,000 as PI)
- Recently elected to a 4-yr leadership position within the Geological Society of America's Quaternary Geology and Geomorphology Division
- Currently have over 3,650 citations associated with 54 journal publications, an h-index of 25, and i10-index of 44
- Nominated for a University of Connecticut CETL Teaching Fellow Award (2017, 2018)
- Provost recognition for high student evaluations every year from 2011-2019 (recognition no longer given out)

### Highlights and Synergistic Activities

- Graduated 6 UConn PhD students, 10 UConn MS students and 14 UConn undergraduate thesis students as Major Advisor/co-Advisor
- Lead PI and Course Instructor for UConn Dept. of Earth Sciences Sediment Coring Facility (UCore), associated with 5 funded grants, 12 UConn student thesis projects (4 PhD, 5 MS, 3 UG), 3 publications and 24 abstracts/conference presentations to date.
- Current Co-PI on NSF award: 'GP-IMPACT: Creating Pathways for Literacy, Undergraduate Majors and Careers in the Geosciences through Institutional Collaborations'

- Recently completed NSF CAREER award; project title: 'Linking Land-use Dynamics with Anthropocene Sedimentation'. This project successfully integrated research, education, conservation and outreach to better understand historic land-use dynamics and Anthropocene, human-induced sedimentation across southern New England. In terms of research, this grant successfully investigated: 1) the spatial arrangement of historic land use; 2) soil impacts from land-use practices; and 3) sedimentation within wetland, lakes and dam reservoirs due to human activity.
- As co-PI, recently completed UConn CLAS Research Funding in Academic Themes Award: 'DISASTER (Designing Interdisciplinary Science And Strategies To Enhance Resilience)'
- Project director/co-director within the NSF Funded/REU related Keck Geology Consortium (2010-2013, 2014-2015 – Colorado Front Range; 2015-2016 – southern New England); advising and mentoring of 36 undergraduate over 5 years.

***UConn Courses Taught, last 5 years***

- EARTH 4240 / EARTH 5240: Watersheds and Environmental Change
- EARTH 3020: Earth Surface Processes
- EARTH 4230 / EARTH 5230: GIS and Remote Sensing for Earth Science Applications
- GEOG 3310 / EARTH 5510: Fluvial Geomorphology
- UConn Pre-College (Earth & Environmental Science)
- Study Abroad (Geology of the Bahamas)

***Advising (as major advisor)***

***Ph.D.***

Saranya Gautam (Earth Sciences), 2022-present  
Andy Fallon (Earth Sciences), 2019-2024  
Samantha Dow (Earth Sciences), 2018-2023  
Ji Won Suh (Geography), 2018-2022  
Megan McCusker (Geography), 2013-2018  
Katharine Johnson (Geography), 2012-2016  
Chung Huang (Geosciences), 2011-2015, *Co-Advisor*

***Master's***

Allison Rivera (Earth Sciences), 2024-present  
Preston Senderoff (Earth Sciences), 2023-present  
David Ahumada (Earth Sciences), 2020-2022  
David Vohra (Earth Sciences), 2019-2022  
Jon Leonard (Geography), 2020-2022  
Eli Egan-Anderson (Geography), 2017-2019  
Caitlin McManimon (Geosciences), 2016-2018  
Lindsey Belliveau (Geosciences), 2014-2016  
Thomas Schenck (Geosciences), 2014-2016  
Amberlee Nicoulin (Geosciences), 2012-2014  
Neil Shea (Geosciences), 2011-2013  
Joshua Strunk (Geography), 2011-2012

***B.A./B.S. Thesis***

Lydia Field (Earth Sciences, UConn), 2024-present  
Cassie Aimetti (Earth Sciences, UConn), 2024-present  
Allison Rivera (Earth Sciences, UConn), 2022-2023  
Kiely Hine (Earth Sciences, UConn), 2022-2023  
Amelia Hurst (Marine Sciences, UConn), 2021-2022, *Co-Advisor*  
Billy Stansfield (Geosciences, UConn), 2018-2019  
Connor Mitchel\* (Geosciences, UConn), 2018-2019  
Judy Taylor (Geosciences, UConn), 2017-2018

Nathan Corcoran (Geosciences, UConn), 2015-2016  
Chad Fagan (Envi. Sci. & GSCI, UConn), 2015-2016, *Co-Advisor*  
Greg Harris (Geosciences, UConn), 2014-2015, *Co-Advisor*  
Sam Dow (Geosciences, UConn), 2013-2014  
Katherine Morrow (Envi. Sci., UConn), 2013-2014  
Hannah Mondrach (Geosciences, UConn), 2012-2013  
Abbey Valletta (Geosciences, UConn), 2012-2013  
James Winkler (Geosciences, UConn), 2011-2012  
Cianna Wyschnytzky (Geology, Amherst College), 2010-2011

**Keck Geology Consortium REU (supervising professor)**

2015-2016, Southern New England, associated supervision of 6 Undergraduate Theses  
2014-2015, Colorado, associated supervision of 7 Undergraduate Theses  
2012-2013, Colorado, associated supervision of 7 Undergraduate Theses  
2011-2012, Colorado, associated supervision of 2 Undergraduate Theses  
2010-2011, Colorado, associated supervision of 9 Undergraduate Theses

**Grants**

- Ouimet, W., co-PI; Department of Defense (DoD) Strategic Environmental Research and Development Program (SERDP); \$548,000 to UConn (PI Craig Tobias); Title: *Predicting Carbon Sink Strength in DoD Coastal Wetlands - A Simple Transferable Empirical Approach*; Status: ACTIVE; December 2024 – November 2027
- Ouimet, W., PI, USDA-NRCS, \$512,000; Title: *UConn/NRCS Long Island Sound Coastal Zone Soil Survey Research Collaboration*; Status: ACTIVE; October 2022 – October 2025
- Ouimet, W., PI, UConn CLAS Equipment Award, \$221,000; Title: *Acquisition of a Gamma Spectroscopy System to Advance Research at UConn in Earth and Marine Sciences using Radionuclides*; Status: ACTIVE; November 2023 – June 2024
- Ouimet, W., co-PI, National Science Foundation (NSF); \$315,000 through IUUSE: GEOPATHS; Title: *GP-IMPACT: Creating Pathways for Literacy, Undergraduate Majors and Careers in the Geosciences through Institutional Collaborations*; Status: ACTIVE; July 2020 – July 2025
- Ouimet, W., PI, National Science Foundation (NSF) Award #1654462; \$475,000 through SBE GSS and EAR GLD; Title: *CAREER: Linking Land-use Dynamics with Anthropocene Sedimentation*; Status: COMPLETED; May 1, 2017– April 30, 2023
- Ouimet, W., PI, Connecticut Institute of Water Resources, and USGS; \$15,000; Title: *Investigating the Impact of Beavers in Connecticut Upland Rivers*; Status: COMPLETED; May 2022– September 2023
- Ouimet, W., co-PI, UCONN CLAS Research Theme Funding Opportunity; \$50,000; Title: *DISASTER (Designing Interdisciplinary Science And Strategies To Enhance Resilience) Research at UConn*; Status: COMPLETED; February 2022– May 2023
- Ouimet, W., co-PI, UCONN CLAS Fund for Innovative Education in Science; \$100,000; Title: *Linking Teaching and Research: A Service Learning Course in Watershed Characterization and the Environmental Impacts of Dams in Connecticut*; Status: COMPLETED; January, 2017 – January, 2019
- Ouimet, W., co-PI, UCONN Research Excellence Program; \$50,000; Title: *Creating New Opportunities for International Research in Disaster Science*; Status: COMPLETED; July 1, 2016– August 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

**PUBLICATIONS – Chronological order with most recent first**

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

**Referred Publications (PUBLISHED):**

- Dow\*, S., **Ouimet**, W.B. and Hren, M.T., **2024**. Legacy Impacts and Recovery of  $\delta^{15}\text{N}$ ,  $\delta^{13}\text{C}$  and C/N Storage in Soils Due to Historic Land Use. *Anthropocene*, p.100435.
- Shoreman-Ouimet, E., DiCairano, J., Lachlan, K., Burton, C., Walters, A., **Ouimet**, W. and Barrett, J., **2024**. On the brink: Examining preemptive indicators of preparedness inequity and social vulnerability to climate change hazards in Connecticut, USA. *International Journal of Disaster Risk Reduction*, p.104276
- Butler, M.J., Yellen, B.C., Oyewumi, O., **Ouimet**, W. and Richardson, J.B., **2023**. Accumulation and transport of nutrient and pollutant elements in riparian soils, sediments, and river waters across the Thames River Watershed, Connecticut, USA. *Science of The Total Environment*, 899, p.165630.
- Suh\*, J.W., **Ouimet**, W.B. and Dow\*, S., **2023**. Reconstructing and identifying historic land use in northeastern United States using anthropogenic landforms and deep learning. *Applied Geography*, 161, p.103121.
- Bonhage, A., Raab, T., Schneider, A., Raab, A., **Ouimet**, W., Völkel, J. and Ramezany, S., **2023**. From site to state—Quantifying multi-scale legacy effects of historic landforms from charcoal production on soils in Connecticut, USA. *Catena*, 232, p.107426.
- Suh\*, J.W. and **Ouimet**, W., **2023**. Mapping stone walls in Northeastern USA using deep learning and LiDAR data. *GIScience & Remote Sensing*, 60(1), p.2196117. <https://doi.org/10.1080/15481603.2023.2196117>
- Suh\*, J.W. and **Ouimet**, W., **2023**. Generation of High-Resolution Orthomosaics from Historical Aerial Photographs Using Structure-from-Motion and Lidar Data. *Photogrammetric Engineering & Remote Sensing*, 89(1), pp.37-46.

- der Vaart, W.V.V., Bonhage, A., Schneider, A., **Ouimet, W.** and Raab, T., 2022. Automated large-scale mapping and analysis of relict charcoal hearths in Connecticut (USA) using a Deep Learning YOLOv4 framework. *Archaeological Prospection*, 30(3), pp.251-266.
- Bonhage, A., Raab, T., Schneider, A., Fischer, T., Ramezany, S., **Ouimet, W.**, Raab, A. and Hirsch, F., 2022. Vertical SOC distribution and aromatic carbon in centuries old charcoal-rich Technosols. *European Journal of Soil Science*, 73(4), p.e13293.
- Dow\*, S. and **Ouimet, W.B.**, 2022. An Anthropocene chronosequence study on upland soils in the northeastern USA. *Geomorphology*, 412, p.108304.
- Suh\*, J.W., Anderson\*, E., **Ouimet, W.**, Johnson, K.M. and Witharana, C., 2021, Mapping Relict Charcoal Hearths in New England Using Deep Convolutional Neural Networks and LiDAR Data. *Remote Sensing*. 2021; 13(22):4630.
- Johnson, K.M., Ives, T.H., **Ouimet, W.** and Sportman, S.P., 2021. High-resolution airborne Light Detection and Ranging data, ethics and archaeology: Considerations from the northeastern United States, *Archaeological Prospection*, 2v. 28, pp. 293–303,
- Johnson, K.M., **Ouimet, W.**, Dow\*, S., Haverfield^, C., 2021, Estimating Historically Cleared and Forested Land in Massachusetts, USA, Using Airborne LiDAR and Archival Records. *Remote Sens.*, 13, 4318.
- Hren, M.T. and **Ouimet, W.**, 2021. Organic Molecular Paleohypsometry: A New Approach to Quantifying Paleotopography and Paleorelief. *Frontiers in Earth Science*, 9, p.665324.
- Leslie, D., Singer, Z., **Ouimet, W.** and Leach, P., 2022, Deeply Buried Pleistocene Landscapes and the Search for Paleoindian Sites in the Northeast, *Bulletin of the Archaeological Society of Connecticut*, Issue No. 23
- Johnson, K.M. and **Ouimet, W.B.**, 2021. Reconstructing historical forest cover and land use dynamics in the northeastern United States using geospatial analysis and airborne Lidar. *Annals of the American Association of Geographers*, 111(6), pp.1656-1678.
- Bonhage, A., Hirsch, F., Raab, T., Schneider, A., Raab, A. and **Ouimet, W.**, 2020. Characteristics of small anthropogenic landforms resulting from historical charcoal production in western Connecticut, USA. *Catena*, 195.
- Donovan\*, S., Ignatiadis, M., **Ouimet, W.**, Dethier, D. and Hren, M., 2021. Gradients of geochemical change in relic charcoal hearth soils, Northwestern Connecticut, USA. *Catena*, 197.
- Anderson, S.P., Kelly, P.J., Hoffman, N., Barnhart, K., Befus, K. and **Ouimet, W.**, 2021. Is this steady state? Weathering and critical zone architecture in Gordon Gulch, Colorado Front Range. *Hydrogeology, chemical weathering, and soil formation*, pp.231-252.
- Dow\*, S., Snyder, N.P., **Ouimet, W.B.**, Martini, A.M., Yellen, B., Woodruff, J.D., Newton, R.M., Merritts, D.J. and Walter, R.C., 2020. Estimating the timescale of fluvial response to anthropogenic disturbance using two generations of dams on the South River, Massachusetts, USA. *Earth Surface Processes and Landforms*, 45(10), pp.2380-2393.
- Abrahams^, E., Kaste, J., **Ouimet, W.** and Dethier, D., 2018, Asymmetric hillslope erosion following wildfire in Fourmile Canyon, Colorado; *Earth Surface Processes Landforms*, 43(9), pp.2009-2021.
- Witharana, C., **Ouimet, W.** and Johnson, K., 2018, Using LiDAR and GEOBIA for automated extraction of 18th-late 19th century relict charcoal hearths in southern New England, *GIScience and Remote Sensing*, 55(2), pp.183-204.
- Dethier, D., **Ouimet, W.**, Murphy, S, Kotikian^, M., Wicherski^, W. and Samuels^, R., 2018, Investigating Holocene and Anthropocene landscape change and the legacy of 19th and 20th century mining using geomorphic and stratigraphic evidence in Fourmile Canyon, Colorado, *Annals of the American Association of Geographers*, 108(4), pp.917-937.
- Johnson\*, K and **Ouimet, W.**, 2018, An observational and theoretical framework for interpreting the landscape palimpsest through airborne LiDAR, *Applied Geography*, 91; 32-44, doi.org/10.1016/j.apgeog.2017.12.018

- Val, P., Venerdini, A.L., **Ouimet, W.**, Alvarado, P. and Hoke, G., **2018**, Tectonic control of erosion in the southern Central Andes, *Earth and Planetary Science Letters*, 482; 160–170; doi.org/10.1016/j.epsl.2017.11.004
- Hirsch, F., Raab, T., **Ouimet, W.**, Dethier, D., Schneider A., and Raab, A., **2017**, Soils on historic charcoal hearths – terminology and chemical properties, *Soil Science Society of America Journal*, 81; 1427-1435; doi:10.2136/sssaj2017.02.0067
- Wicherski<sup>^</sup>, W., Dethier, D., and **Ouimet, W.**, **2017**, Erosion and channel changes due to extreme flooding in a mountain stream, Fourmile Canyon, Colorado, *Geomorphology*, 294: 87-98. doi: 10.1016/j.geomorph.2017.03.030
- 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*
- 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 <sup>10</sup>Be-derived erosion rates in Yunnan, SW China, *Earth Surface Dynamics*, 4, 819-830, doi:10.5194/esurf-4-819-2016
- Johnson<sup>\*</sup>, 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<sup>\*</sup>, 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<sup>\*</sup>, 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<sup>^</sup>, M.C., Rios<sup>^</sup>, B.A., **Ouimet, W.B.**, and Sibley<sup>^</sup>, 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<sup>\*</sup>, M.A., Anderson, R.S., Wyshnytzky<sup>^</sup>, C.E., **Ouimet, W.B.**, and Dethier, D.P., **2015**, Hillslope lowering rates and mobile-regolith residence times from in situ and meteoric <sup>10</sup>Be analysis, Boulder Creek Critical Zone Observatory, Colorado. *Geological Society of America Bulletin*, v. 127; no. 5/6; p. 862–878; doi: 10.1130/B311115.1
- Ouimet, W.**, Dethier, D., Bierman, P., Wyshnytzky<sup>^</sup>, C., Shea<sup>\*</sup>, N., and Rood, D.H., **2015**, Spatial and temporal variations in meteoric <sup>10</sup>Be inventories and long-term deposition rates, Colorado Front Range. *Quaternary Science Reviews*, 109, 1-12.
- Wyshnytzky<sup>^</sup>, C.E., **Ouimet, W.B.**, McCarthy<sup>^</sup>, J., Dethier, D.P., Shroba, R.R., Bierman, P.R., and Rood, D.H., **2015**, Meteoric <sup>10</sup>Be, clay, and extractable iron depth profiles in the Colorado Front Range: Implications for understanding soil mixing and erosion. *CATENA*, 127, 32-45.
- Rosenberg<sup>^</sup>, 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<sup>[SEP]</sup>
- Johnson<sup>\*</sup>, 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 <sup>10</sup>Be 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., Coblentz, 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., Coblentz, 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](http://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.**, Dow\*, S., Thorson, R., and Fallon\*, A., **2023**, 'Stone Wall, Charcoal Hearth, Mill Dam and Beaver Legacies in Northeastern Connecticut', Geological Society of Connecticut Fieldtrip Guidebook, June 2023
- Ouimet, W.**, **2017**, 'Waterfalls, Beavers, Dams and Human Impacts: New Perspectives on Holocene and Anthropocene Landscape Change in southern New England', Fieldtrip Guide for the 30<sup>th</sup> Keck Geology Research Symposium at Wesleyan University, April 2017
- 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

**Select Abstracts/Presentations for Meetings (last 10 years; with focus on projects and research not reflected in publications):**

- Senderoff, P., **Ouimet, W.** and Rivera, A., 2024, Investigating Mid-Holocene to Present Relative Sea-Level Rise in Southwestern Connecticut, presented at the 59<sup>th</sup> Annual Northeastern Section Meeting of the Geological Society of America, *Abstracts with Programs*. Vol. 56, No. 1, doi: 10.1130/abs/2024NE-397782
- Gautam, S., **Ouimet, W.** and Anderson, T., 2024, Investigating Subaqueous Coastal Sediment Dynamics along the Connecticut Coast with Trace Metals, presented at the 59<sup>th</sup> Annual Northeastern Section Meeting of the Geological Society of America, *Abstracts with Programs*. Vol. 56, No. 1, doi: 10.1130/abs/2024NE-397777
- Dow, S. and **Ouimet, W.**, 2023, Records of Sedimentation in Response to 18th–20th Century Land Use in New England, Geological Society of America *Abstracts with Programs*. Vol. 55, No. 6, doi: 10.1130/abs/2023AM-396063
- Lapham, L., Hren, M. and **Ouimet, W.**, 2023, Post-Glacial Fire and Climate History of Southern New England, Geological Society of America *Abstracts with Programs*. Vol. 55, No. 6, doi: 10.1130/abs/2023AM-394845
- Suh, J and **Ouimet, W.**, 2023, Regional Mapping of Stone Walls On Northeastern U.S Using Deep Learning, Annual NEGSA Meeting, Geological Society of America *Abstracts with Programs*. Vol. 55, No. 2, 2023, doi: 10.1130/abs/2023SE-386159

- Fallon, A. and **Ouimet, W.**, 2023, Analyzing Sedimentation and Channel Changes since the Reemergence of Beavers in Upland Connecticut River Corridors, Annual NEGSA Meeting, Geological Society of America Abstracts with Programs. Vol. 55, No. 2, 2023, doi: 10.1130/abs/2023SE-385779
- Leonard, J., **Ouimet, W.**, Dow, S. and Suh, J., 2023, Evaluating User Interpretation Associated with Manual Digitization of Stone Walls and Relict Charcoal Hearths Using Airborne LiDAR, Annual NEGSA Meeting, Geological Society of America Abstracts with Programs. Vol. 55, No. 2, 2023, doi: 10.1130/abs/2023SE-386125
- Field, L., Sihpol, T., McNamara, C., Allegra, A., Durham, L., Parsley, J., Nguyen, K., **Ouimet, W.** and Dow, S., 2023, Analysis of Anthropogenic Heavy Metals in Historic Mill Dam Sediments: A Case Study from Mill Brook, Coventry, Connecticut (USA), Annual NEGSA Meeting, Geological Society of America Abstracts with Programs. Vol. 55, No. 2, 2023, doi: 10.1130/abs/2023SE-386107
- Edgington, A., Ajayi, J., Onuoha, O., Parthasarthy, R., Pimenta, M., Dow, S. and **Ouimet, W.**, 2023, Investigating a Possible New, Late Pleistocene Periglacial Landform in Central Connecticut, Annual NEGSA Meeting, Geological Society of America Abstracts with Programs. Vol. 55, No. 2, 2023, doi: 10.1130/abs/2023SE-386023
- Rivera, A., Hine, K., Raghavan, S., Anderson, T., Faulkner, E., Kulp, H., Sacco, C., Dow, S. and **Ouimet, W.**, 2023, Examining 17,000 Years of Sedimentation and Organic Accumulation in a Small Upland Stream Corridor in Northeastern Connecticut, Annual NEGSA Meeting, Geological Society of America Abstracts with Programs. Vol. 55, No. 2, 2023, doi: 10.1130/abs/2023SE-386002
- Hine, K. and **Ouimet, W.**, 2023, Historical Analysis of Mill Dams Along Rivers in Northeastern Connecticut, Annual NEGSA Meeting, Geological Society of America Abstracts with Programs. Vol. 55, No. 2, 2023, doi: 10.1130/abs/2023SE-385992
- Doiron, K.L., Stiefel, R., Khan-Bureau, D., Siver, P., Hamilton, P., **Ouimet, W.** and Lewis, L.A., 2023, New or old: Can paleolimnological methods be used to trace the arrival of nuisance stalk-forming diatoms in rivers, Northeast Algal Symposium
- Vohra, D., **Ouimet, W. B.**, 2021, Investigating Low-Relief Topography in Taiwan's Central Range, Geological Society of America Annual Meeting, Portland, OR
- Dethier, D., Bierman, P., Hoffman, N., Bubel, A., Jungers, M., Lazarus, E., **Ouimet, W. B.**, Schildgen, T., 2021, Measuring Long-Term Erosion Rates in the Northern Front Range—the Undergraduate Connection, Geological Society of America Annual Meeting, Portland, OR.
- Ouimet, W.**, Leslie, D., Schenck, T., Nicoulin, A., 2021, Investigating post-glacial landscape recovery, river incision and landform stability in river valleys of southern New England, FACSS SciX Conference 2021.
- Leslie, D., **Ouimet, W.**, Allen, C., 2021, The Farmington River Valley during the Late Pleistocene: Paleoindian Occupations at Southern New England's Oldest Archaeological Site, FACSS SciX Conference 2021.
- Ahumada, D., Robinson, H., **Ouimet, W.**, Fallon, A. and Dow, S., 2021, Reservoir sedimentation behind two 19-20<sup>th</sup> century dams on Cedar Swamp Brook in eastern Connecticut: A Preliminary Examination, Geological Society of America *Abstracts with Programs*. Vol. 53, No. 1, doi: 10.1130/abs/2021NE-361931, virtual NEGSA, March 2020
- Beamer, D., Mason, C., **Ouimet, W.**, Singer, Z., Wah, J., Leslie, D. and Park Boush, L., 2021, Floodplain Morphological History at the Templeton Paleoindian site, Washington, CT, Geological Society of America *Abstracts with Programs*. Vol. 53, No. 1, doi: 10.1130/abs/2021NE-361829, virtual NEGSA, March 2020
- Ouimet, W.**, Suh, J. W. and Dow, S., 2020, Developing user-digitizing web apps for historic land use features in New England: 'Connecticut Stone Wall Mapper' and 'Northeastern US Relict Charcoal Hearth (RCH) Mapper', Connecticut GIS Day, November 2020

- Fallon, A. and **Ouimet**, W., 2020, 20th Century Recovery of Beaver Dams, Floodplain Connectivity and Wetland Habitat in Connecticut Streams: Lessons for Stream Restoration, *AGU Fall Meeting 2020*. December
- Ouimet**, W and Dow, S 2020, The Historic Land Use Initiative (Hili): Mapping And Investigating The Extent And Legacy Of 300+ Years Of Land Use Changes In The Northeast Us Following European Settlement, Geological Society of America *Abstracts with Programs*. Vol. 52, No. 2, doi: 10.1130/abs/2020SE-345429, NEGSA, Reston VA, *Scheduled for March 2020*
- Bush, A. and **Ouimet**, W., 2019, Searching for outcrops using LiDAR data (when you can't see the rocks for the trees), North American Paleontological Convention (NAPC), UC Riverside, June 23–27, 2019
- Stansfield, B. and **Ouimet**, W., 2019, History, Mapping, and Physical Properties of 18th – 19th Century Relict Charcoal Hearths in Eastern Connecticut, Geological Society of America *Abstracts with Programs*, NEGSA, Portland Maine, March 2019,
- Flannery, K., **Ouimet**, W., Egan-Anderson, E. and Vitale, S., 2019, Examining the Effects of 18th-19th Century Charcoal Production on Soil Water Repellency in Northwestern, Connecticut, Geological Society of America *Abstracts with Programs*, NEGSA, Portland Maine, March 2019,
- Mitchell, C., **Ouimet**, W., Thorson, R. and Dow, S., 2019, Post-Glacial Stratigraphy and Human Impacts in Upper Bolton Lake, Eastern Connecticut: Implications for an Atlantic White Cedar Stand, Geological Society of America *Abstracts with Programs*, NEGSA, Portland Maine, March 2019,
- Ouimet**, W. and Johnson, K., 2018. Historical Archaeology, Human-Environment Interactions and Land-use Dynamics in southern New England using Aerial LiDAR, EarthCube Advancing the Analysis of High Resolution Topography Workshop, Broomfield, CO, August,
- Haverfield, C. and **Ouimet**, W., 2018, Mapping and geospatial analysis of stone walls in Massachusetts and Connecticut, Spring Northeast Arc Users Group (NEARC) Conference, Storrs, CT, May 8
- McManimon, C., **Ouimet**, W., Araya, Y., Lee, B., Nangle, L., Scofield, H., Stansfield, B., Mastroluca, F., Baird, K., Farrell, K., Rowan, S., Wilcox, J., Hren, M. 2018. A record of early Holocene wildfires and 18-20<sup>th</sup> century human impacts in an upland wetland in eastern Connecticut: Geological Society of America, *Abstracts with Programs*. Vol. 50, No. 2, doi: 10.1130/abs/2018NE-311337.
- Ouimet**, W., McManimon, C., Araya, Y., Lee, B., Nangle, L., Scofield, H., Stansfield, B., Gonzalez, S., Mastroluca, F., Baird, K., Farrell, K., Rowan, S. and Wilcox, J., 2018. Characterizing Holocene sediment accumulation and human impacts in an upland kettle pond in eastern Connecticut: Geological Society of America, *Abstracts with Programs*. Vol. 50, No. 2, doi: 10.1130/abs/2018NE-311353.
- Taylor, J., **Ouimet**, W. and Leslie, D., 2018, Post-glacial stratigraphy and sediment accumulation in the Norwalk and Saugatuck River estuaries, western Long Island Sound: Geological Society of America *Abstracts with Programs*. Vol. 50, No. 2, doi: 10.1130/abs/2018NE-311321
- McManimon, C. and **Ouimet**, W., 2017, Evaluating Records of Nitrogen and Heavy Metals in Small, Upland Watersheds affected by 17th Century to Present Land Use Change, Southern New England, Geological Society of America *Abstracts with Programs*. Vol. 49, No. 6, doi: 10.1130/abs/2017AM-305648
- Leslie, D., **Ouimet**, W. and Sportman, S., 2017, Landscape Environmental Reconstruction Based on Underwater, Terrestrial, and Intertidal Core Extraction in Norwalk and Westport, Connecticut, Eastern States Archeological Federation Annual Meeting, New London, CT, November 2-4

- Hren, M., **Ouimet**, W., Dethier, D., Fagan, C. and Harris, G., 2016, Polycyclic Aromatic Hydrocarbons Preserve Sedimentary Records of Wildfire in Diverse Ecosystems, Geological Society of America Annual Meeting, Denver, CO, *Abstracts with Programs*. Vol. 48, No. 7 doi: 10.1130/abs/2016AM-284860
- 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 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
- Ouimet**, 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 presented at 2015 Fall Meeting, AGU, San Francisco, CA.
- Dethier, D., **Ouimet**, 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
- 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.
- 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
- Nicoulin, A. and **Ouimet**, W., 2013, River Terraces, Incision and Post-Glacial Landscape Evolution in Southern New England, Geological Society of America *Abstracts with Programs*. Vol. 45, No. 7, p.41
- Shea, N., **Ouimet**, W., Dethier, D., Bierman, P. and Rood, D., 2013, Transient Hillslopes and the Legacy of Climate in the Colorado Front Range, Geological Society of America *Abstracts with Programs*. Vol. 45, No. 7, p.409

## **Service Activities**

### *National/International*

- Geological Society of America's Quaternary Geology and Geomorphology Division Management Board (October 2024-present) – **\*Elected Position\***
- Participant at the *Inclusive Graduate Education Network (IGEN) Equity in Graduate Admissions Workshop* (August 2023)
- Lead Organizer and Presenter for the Geological Society of Connecticut Annual Fieldtrip (June 2023)
- Invited Presenter at the Society of Soil Scientists of Southern New England Keney Park Workshop (September 2023)
- Convener and Workshop Leader at the 2021 Northeastern GSA Section Meeting (Workshop title: *The LIDAR Revolution in Earth Surface Mapping*)
- Session convener for NEGSA (2015, 2016, 2018, 2021) – Pleistocene to Anthropocene Landscape Evolution in the Northeastern U.S.
- Invited fieldtrip leader, 30<sup>th</sup> Keck Geology Research Symposium, Wesleyan University, April 2017
- Invited Participant for the NSF Workshop to Explore Future Directions of the Polar Geospatial Center's Support of NSF GEO Programs (May 2017)
- NSF Panel Participant (Tectonics Fall 2013, PREEVENTS Spring 2017, GSS Fall 2019)
- Session convener for EGU (Spring 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, 2019, 2022, 2023)
- Session convener 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 convener for NE GSA (2012) - The Legacy of Humans and Glaciation in Northeastern Rivers
- Session convener 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 the National Science Foundation (NSF) and National Institutes of Water Resources

#### *State/Local*

- Sediment coring and collaborative research efforts with public stakeholders for EARTH 4240/5240 (Watersheds and Environmental Change). Collaborations include:
  - Town of Southwick (MA) - Sofinowski Preserve - which has been featured in *The Westfield News*
  - Town of Mansfield (CT) – Bicentennial Pond
  - City of Hartford (CT) – Keney Park
  - Simsbury Land Trust, Simsbury (CT) – Owen-Mortimer Preserve
  - Town of Coventry (CT) – Mill Brook Pond
- Invited Speaker, Sandisfield Arts Center, October 2023
- Invited Speaker, Avon Historical Society, March 2023
- Invited Speaker, Three Rivers Community College (2021, 2022, 2023)
- Ongoing work between UCore, Dave Leslie of Heritage Consultants, and Jamestown Rediscovery mentioned in 'Dig Deeper Episode 65 - Good Vibrations: Drilling into the Mysteries Beneath the Pitch and Tar Swamp' - <https://youtu.be/Khyg-2VvLEA> (2021-present)
- Southeast Elementary School, Career Day Presentation (2019)
- Southeast Elementary School, 5-week enrichment cluster (Rocks and Geology) (Spring 2019)
- Career Exploration Day Presentation, TMMS, Norwich Public Schools (2018)
- Research Collaboration and Presentation, Friend of Bolton Lakes, Bolton CT (2018)
- Invited Speaker and Panelist, Connecticut State Historic Preservation Office (SHPO) Conference, May 2017 – LiDAR; Historical Archaeology
- Invited WNPR Radio Interview, Topic: LiDAR and Historical Archaeology research in southern New England, Dec. 2016
- Invited nature hike leader for local school children, Town of Mansfield and *Joshua's Tract Conservation and Historic Trust*, June 2016
- Invited Speaker, Institute for American Indian Studies, Nov. 2014 – LiDAR; Archaeology

- Invited Speaker, November 2010, *Friends of the Whately Library and Whately Cultural Council*, Whatley, MA

#### *University of Connecticut*

- Chair: Graduate Committee, Earth Sciences (Fall 2020-present)
- Chair: Search Committee, Tenure-track Assistant Professor in Earth Sciences (AI/ML Cluster) (2024)
- Member: Merit Committee, Earth Sciences (2023, 2024)
- Member: Search Committee, Tenure-track Assistant Professor in Earth Sciences, Environmental Geophysics (2023)
- UConn Graduate School Fellowship Reviewer (2019,2021,2023)
- Member: Search Committee, Tenure-track Assistant Professor in Geography (EHI Cluster) (2021)
- Member: Search Committee, Earth Sciences External Department Chair Search (2021)
- Member: Search Committee, State Archaeologist (2020)
- Member: Dean's Strategic Vision Planning Committee (2020)
- Member: Graduate Committee, Geography (Fall 2018 - Fall 2021)
- Member: Search Committee, Tenure-track Assistant Professor in Geography (Fall 2019)
- Member: Graduate Committee, Geosciences (Fall 2017 - Fall 2019)
- UConn Research Excellence Program Proposal Reviewer (2019,2022,2023)
- Member: Departmental Curriculum Committee, Geography (Fall 2016 - present)
- Member: Ad-Hoc Committees (Space and Renovation Planning; External Review; Awards), Geosciences (January 2016 - present)
- Member: Visibility and Research Clusters Committee, Geography (Fall 2016 - present)
- Member: GIS Certificate Committee, Geography (2015-2016)
- Member: Merit Committee, Geography (2015, 2018, 2019)
- 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)

#### **Professional Memberships**

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

#### **Invited Talks and Departmental Colloquia**

- Invited Speaker, Central Connecticut State University, April 2024
- Invited Keynote, Geological Society of Connecticut Annual Meeting, Nov 2021
- Invited Speaker, Eastern Connecticut State University, Dec 2019
- Invited Speaker, Berkshire Natural History Conference, Clark Art Institute, Williams College, Williamstown MA, Nov. 2019
- Invited Speaker, Wolman Club Meeting, Franklin & Marshall College, June 2019
- Invited Keynote, Susquehanna Shale Hills Critical Zone Observatory All Hands Meeting, Penn State University, State College, PA, May 2019
- Invited Keynote, Spring Northeast Arc Users Group (NEARC) Conference, May 2018

- Invited Colloquium Speaker, Geology and Geochemistry, Mass. Inst. of Tech. (MIT), March 2018
- Invited Speaker, Modeling Culture: 3D Archaeology and the Future of the Past (Santa Cruz, CA), April 2016
- Invited Speaker, Mohawk Watershed Symposium, March 2016
- Keynote Speaker, Keck Geology Symposium, April 2015
- Seminar Speaker, Geology and Geography, Dartmouth College, April 2015
- Invited Speaker, GSA, Fall 2014
- Seminar Speaker, Dept. of Geosciences, University of Massachusetts, February 2014
- Invited Speaker, GSA, Fall 2013
- Seminar Speaker, Dept. of Earth and Environment Sciences, Wesleyan College, Feb. 2013
- Seminar Speaker, Dept. of Geosciences, Williams College, November 2012,
- Invited Speaker, AGU, Fall 2010
- Seminar Speaker, Center for Integrative Geosciences, University of Connecticut, June 2010
- Seminar Speaker, Dept. of Geology and Environmental Geosciences, College of Charleston, April 2010
- Seminar Speaker, Dept. of Geology, Middlebury College, February 2010
- Seminar Speaker, Dept. of Geology, Amherst College, February 2009
- Seminar Speaker, Dept. of Geology, Colorado College, March 2008
- Seminar Speaker, Dept. of Geosciences, Williams College, November 2007
- Seminar Speaker, Dept. of Geosciences, Pennsylvania State University, October 2007
- Seminar Speaker, Dept. of Geology and Geophysics, Boston College, February 2007

#### **Additional Fellowships, Grants and Academic Awards**

- **Teaching Assistant Excellence Prize**, Massachusetts Institute of Technology: Fall 2006 – Earth Surface Processes; Spring 2005 – Introductory Geology
- **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 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)