

Amanda Henck Schmidt

Curriculum vitae

28 January 2022

Geology Department
Oberlin College
Carnegie 406
52 W. Lorain St.
Oberlin, OH 44074

67 S. Cedar St.
Oberlin, OH 44074
(440)794-1413 (home)
(440)775-8342 (work)
amanda.schmidt@oberlin.edu
<http://www.oberlin.edu/faculty/aschmidt>

EDUCATION

- 2010 Ph.D. Geological Sciences, University of Washington
2002 BSE Civil and Environmental Engineering, Princeton University

PROFESSIONAL APPOINTMENTS/EMPLOYMENT

- 2018- Associate Professor, Geology Department, Oberlin College
2021- Chair, Geology Department, Oberlin College
2018- Adjunct Associate Professor, Geology Department, University of Vermont
2011-2018 Assistant Professor, Geology Department, Oberlin College

PUBLICATIONS

Note: My name is bolded; undergraduate student co-authors are identified with a *.

Refereed journal articles

- 2021 Bierman, P. R., Bender, A. M., Christ, A. J., Corbett, L. B., Halsted, C. T., Portenga, E. W., & **Schmidt, A. H.** (2021). Cosmogenic Nuclides in Earth Surface Processes. *Encyclopedia of Geology (Second Edition)*: 101-115.
- 2021 Qiao, Xue, **Amanda Henck Schmidt**, Yue Xu, Hongming Zhang, Xiaolan Chen, Rongting Xiang, Ya Tang, and Wei Wang. (2021). Surface water quality in the upstream-most megacity of the Yangtze River Basin (Chengdu): 2000–2019 trends, the COVID-19 lockdown effects, and water governance implications. *Environmental and Sustainability Indicators* 10: 100118.
- 2021 *Grande, Alexandra, **Amanda H. Schmidt**, Paul R. Bierman, Lee B. Corbett, Carla López-Lloreda, Jane Willenbring, William H. McDowell, and Marc W. Caffee. (2021). Landslides, hurricanes, and sediment sourcing impact basin-scale erosion estimates in Luquillo, Puerto Rico. *Earth and Planetary Science Letters* 562: 116821.
- 2020 Bierman, P., Sibello-Hernández, R., **Schmidt, A. H.**, Cartas-Aguila, H., Bolanos-Álvarez, Y., Guillén-Arruebarrena, A. Campbell, M. K., Dethier, D., *Dix, M., Massey-Bierman, M., Garcia-Moya, A., Perdrial, J., Racela, J., Alonso-Hernandez, C.. (2020). Cuba! River water chemistry reveals rapid chemical weathering, the echo of uplift, and the promise of more sustainable agriculture. *GSA Today*, 30.
- 2020 **Schmidt, A. H.**, Lüdtke, S., & Andermann, C. (2020). Multiple measures of monsoon-controlled water storage in Asia. *Earth and Planetary Science Letters*, 546, 116415.

- 2019 **Schmidt, A.H.**, Denn, A.R., Hidy, A.J., Bierman, P.R. and Tang, Y., 2019. Human and natural controls on erosion in the Lower Jinsha River, China. *Journal of Asian Earth Sciences*, 170:351-359.
- 2018 **Schmidt, A. H.**, Sosa Gonzalez, V., Bierman, P. R., Neilson, T. B., and Rood, D. H., 2018, Agricultural land use doubled sediment loads in western China's rivers. *Anthropocene*. 21:95-106.
- 2017 Neilson, T.B., **Schmidt, A.H.**, Bierman, P.R., Rood, D.H. and Gonzalez, V.S., 2017. Efficacy of *in situ* and meteoric ^{10}Be mixing in fluvial sediment collected from small catchments in China. *Chemical Geology*. 471:119-130.
- 2017 Gonzalez, V.S., **Schmidt, A.H.**, Bierman, P.R. and Rood, D.H., 2017. Spatial and temporal replicability of meteoric and *in situ* ^{10}Be concentrations in fluvial sediment. *Earth Surface Processes and Landforms*. 42:2570-2584.
- 2017 **Schmidt, A. H.**, Y. X. Li, Y. Tang, 2017. Unintended side effects of conservation: a case study of changing land use in Jiuzhaigou, Sichuan, China. *Mountain Research and Development*, 37(1):56-65. <http://www.bioone.org/doi/full/10.1659/MRD-JOURNAL-D-15-00056.1>.
- 2017 Singleton, A.A.*, **Schmidt, A.H.**, Bierman, P.R., Rood, D.H., Neilson, T.B., Greene, E.S., Bower, J.A.*, Perdrial, N., 2017. Effects of grain size, mineralogy, and acid-extractable grain coatings on the distribution of the fallout radionuclides ^7Be , ^{10}Be , ^{137}Cs , and ^{210}Pb in river sediment. *Geochimica Cosmochimica Acta*. 179: 71-86. <http://dx.doi.org/10.1016/j.gca.2016.10.007>
- 2016 Harrell, S., Yang, Q. X., Viraldo, S. J., Haggmann, R. K., Hinckley, T., and **Schmidt, A. H.**, 2016, Forest is forest and meadows are meadows: cultural landscapes and bureaucratic landscapes in Jiuzhaigou County, Sichuan: *Archiv Orientální*, 84(3), 595-+.
- 2016 **Schmidt, A.H.**, Neilson, T.B., Bierman, P.R., Rood, D.H., Ouimet, W.B., Sosa Gonzalez, V., 2016. Influence of topography and human activity on apparent *in situ* ^{10}Be -derived erosion rates in Yunnan. *Earth Surface Dynamics*. v. 4, n. 4, 819-830.
- 2015 Wei, R. J., Liang, C., **Schmidt, A. H.**, and Zhang, C. M., 2015, ^{210}Pb dating of outlet sediments in Mengtong watershed of Yunnan: South to North Water Transfers and Water Science and Technology, v. 13, no. 1, p. 55-58.
- 2015 d'Alpoim Guedes, J. A., H. L. Lu, A. M. Hein, **A. H. Schmidt**, 2015. Early evidence for the use of wheat and barley as staple crops on the margins of the Tibetan Plateau. *Proceedings of the National Academy of Science*. 112(18): 5625-5630.
- 2014 Urgenson, L. U., **A. H. Schmidt**, J. K. Combs, S. Harrell, T. M. Hinckley, Q. X. Yang, Z. Y. Ma, Y. X. Li, H. L. Lu, A. MacIver, 2014. Traditional Livelihoods, Conservation and Meadow Ecology in Jiuzhaigou National Park, Sichuan, China. *Human Ecology*. 42(3): 281-291.
- 2013 Hinckley, T. M., P. Chi, K. Haggmann, S. Harrell, **A. H. Schmidt**, L. Urgenson, Z. Y. Zeng, 2013. Influence of human pressure on forest resources and productivity at stand and tree scales: The case study of Yunnan pine in SW China. *Journal of Mountain Science*. 10(5):824-832.
- 2013 Trac, C. J., **A. H. Schmidt**, S. Harrell, T. M. Hinckley, 2013. Is the Returning Farmland to Forest Program a Success? Three case studies from Sichuan. *Environmental Practice*, 15(3):350-366. doi:10.1017/S1466056613000355.
- 2013 Qiao, X., Y. H. Xu, Y. Tang, **A. H. Schmidt**, C. S. Zhang, 2013. Demonstrating urban pollution using toxic metals of road dust and roadside soil in Chengdu, southwestern

- China. *Stochastic Environmental Research and Risk Assessment*. 28(4): 911-919. August 2013. doi:10.1007/s00477-013-0790-2.
- 2012 Feathers, J.K., M.A. Casson, **A. Henck**, M.L. Chithambo, 2012. Application of pulsed OSL to polymineral fine-grained samples. *Radiation Measurements*. 47(3), 201-209.
- 2012 **Schmidt, A. H.**, J. K. Combs, A. Freeburg, R. Jespersen, A. Robbins, H. S. Rogers, K. Sheldon, E. Wheat, 2012. A new model for training graduate students to conduct interdisciplinary, interorganizational, and international research. *Bioscience*, 62(3), 296-304. doi:10.1525/bio.2012.62.3.11.
- 2011 **Henck, A. C.**, K. W. Huntington, J. Stone, D. R. Montgomery, and B. Hallet, 2011. Spatial controls on erosion in the Three Rivers Region, southwest China. *Earth and Planetary Science Letters* 303, 71-83. doi: 10.1016/j.epsl.2010.12.038.
- 2011 **Schmidt, A. H.**, D. R. Montgomery, K. W. Huntington, and C. Liang, 2011. The question of Communist land degradation: new evidence from local erosion and basin-wide sediment yield in SW China and SE Tibet. *Annals of the Association of American Geographers*. 101(3):1-19.
- 2010 **Henck, A. C.**, D. R. Montgomery, K. W. Huntington, and C. Liang, 2010. Monsoon control of effective discharge, Yunnan and Tibet. *Geology* 38, 975-978. doi:10.1130/G31444.1.
- 2010 **Henck, A.**, J. Taylor, H. L. Lu, Y. X. Li, Q. X. Yang, B. L. Grub, S. J. Breslow, A. Robbins, A. Elliott, T. M. Hinckley, J. Combs, L. S. Urgenson, S. Widder, X. X. Hu, Z. Y. Ma, Y. W. Yuan, D. J. Jian, X. Liao, and Y. Tang, 2010. Anthropogenic hillslope terraces and swidden agriculture in Jiuzhaigou National Park, northern Sichuan, China. *Quaternary Research* 73, 201-207. doi: 10.1016/j.yqres.2009.10.001.
- 2010 Urgenson, L. S., R. K. Hagemann, **A. C. Henck**, S. Harrell, T. M. Hinckley, S. J. Shepler, B. L. Grub, and P. M. Chi, 2010. Social-ecological dynamics of a forested watershed in SW China. *Society and Ecology*. **115**(5): 2. [online] <http://www.ecologyandsociety.org/vol15/iss4/art2/>.
- 2009 L.S. Gaulke, X. Weiyang, A. Scanlon, **A. Henck**, T. Hinckley, 2009. Evaluation Criteria for Implementation of a Sustainable Sanitation and Wastewater Treatment System at Jiuzhaigou National Park, Sichuan Province China. *Environmental Management*. doi: 10.1007/s00267-009-9398-1.
- 2007 Trac, C. J., S. Harrell, T. Hinckley, **A. Henck**. 2007. Reforestation programs in Southwest China: reported success, observed failure, and the reasons why. *Journal of Mountain Science* 4(4): 275-292.

Manuscripts in press

Harrell, S., **A. H. Schmidt**, B. D. Collins, K. Hagemann and T. M. Hinckley (in press). Sunny slopes are good for grain; shady slopes are good for trees: Nuosu Yi agroforestry and environmental change in the Cool Mountains of Southwestern Sichuan. *The Cultivated Forest: Trees and People in Asian History*. J. Lee, B. Camp Davis, I. M. Miller and B. Lander. *Book accepted with the UW Press*.

Quock, M., **A. H. Schmidt**, L. B. Corbett, P. R. Bierman, A. J. Hidy, M. Caffee (2022). Hurricanes alter ¹⁰Be concentrations in tropical river sediment but do not change regional erosion rate estimates. *Earth Surface Processes and Landforms*.

Manuscripts in submission

*VanLandingham, L., E. W. Portenga, E. C. Lefroy, **A. H. Schmidt**, P. R. Bierman, A. J. Hidy (in review). Comparison of basin-scale *in situ* and meteoric ^{10}Be erosion and denudation rates in felsic lithologies across an elevation gradient at the George River, northeast Tasmania, Australia. *Geochronology*. In review after being accepted with minor revisions.

Zheng, X. L., J. Du, **A. H. Schmidt**, X. Qiao, A. Power, M. J. Grosvenor, Y. Tang (in review). Response of lake water nutrient condition to anthropogenic activities from 1871 to 2013 in the Jiuzhaigou World Natural Heritage Site, China. *Journal of Paleolimnology*.

Manuscripts in revision

Campbell, M. K., P. R. Bierman, **A. H. Schmidt**, R. S. Hernández, A. García-Moya, L. B. Corbett, A. J. Hidy, H. C. Águila, A. G. Arruebarrena, G. Balco, D. Dethier, M. Caffee (in revision). Cosmogenic nuclide and solute flux data from central Cuba emphasize the importance of both physical and chemical denudation in highly weathered landscapes. *Geochronology*. In revision after being accepted with minor revisions.

Datasets

- 2022 Campbell, M. K., P. R. Bierman, **A. H. Schmidt**, R. S. Hernández, A. García-Moya, L. B. Corbett, A. J. Hidy, H. C. Águila, A. G. Arruebarrena, G. Balco, D. Dethier, M. Caffee, 2022. In situ Be-10, Al-26, and Ne-21 measurements of detrital river sediment in central Cuba. PANGAEA, <https://doi.org/10.1594/PANGAEA.940051> (Note: This is a dataset that accompanies the Campbell et al., in revision paper.)
- 2020 *Grande, Alexandra; **Schmidt, Amanda H**; Bierman, Paul R; Corbett, Lee B; López Lloreda, Carla; Willenbring, Jane; McDowell, William H; Caffee, Marc W (2020): In situ and meteoric beryllium 10 in detrital sediment and soil pits in Luquillo, Puerto Rico. PANGAEA, <https://doi.org/10.1594/PANGAEA.920941> (Note: This is a dataset that accompanies the Grande et al., 2021 paper.)
- 2019 *Quock, M., **A. H. Schmidt**, L. B. Corbett, P. Bierman, A. J. Hidy and M. Caffee (2019). Detrital in situ and meteoric Be-10 measurements from samples taken before and after Hurricane Maria in Dominica. PANGAEA, <https://doi.pangaea.de/10.1594/PANGAEA.910131>. (Note: This is a dataset that accompanies the Quock et al., 2022 [in press] paper.)

Other publications

- 2022 Bierman, P. R. and **A. H. Schmidt**, 2022. Living IN the Greenland ice sheet: the story of Sites I and II, Camp Century's older, smaller siblings. EGU Blog post: <https://blogs.egu.eu/divisions/cr/2022/01/21/sites-i-ii-greenland/>
- 2021 Mosser and **Schmidt, A. H.**, editors, 2021. Fulbright in a Time of COVID. Kindle Direct Publishing.

- 2021 **Schmidt, A. H.**, 2021. *We Tried to Run from COVID-19 and It Didn't Work*, in *Fulbright in a Time of COVID*, Mosser and Schmidt, editors. Kindle Direct Publishing.
- 2020 **Schmidt, A. H.**, 2020. Barring Fulbright scholars in Hong Kong and China will only hurt U.S. interests. Cleveland Plain Dealer.
<https://www.cleveland.com/opinion/2020/07/barring-fulbright-scholars-in-hong-kong-and-china-will-only-hurt-us-interests-amanda-h-schmidt.html>
- 2020 d'Alpoim Guedes, Harrell, Haggmann, **Schmidt**, Hinckley, 2020. Deep history in western China reveals how humans can enhance biodiversity. China Dialogue.
<https://chinadialogue.net/en/nature/11984-deep-history-in-western-china-reveals-how-humans-can-enhance-biodiversity/>
- 2020 Bierman and **Schmidt**, 2020. Cuba's clean rivers show the benefits of reducing nutrient pollution. The Conversation. <https://theconversation.com/cubas-clean-rivers-show-the-benefits-of-reducing-nutrient-pollution-131357>
- 2018 *Martin, J., **Schmidt, A. H.**, 2018. Python exercises for use in teaching GIS. A series of teaching activities online as part of the Cutting Edge Peer Reviewed Exemplary Teaching Activities collection. <https://serc.carleton.edu/teachearth/courses/200373.html>
- 2014 **Schmidt, A. H.**, 2014. Landscape Evolution Debate. A teaching activity online as part of the Cutting Edge Peer Reviewed Exemplary Teaching Activities collection.
<https://serc.carleton.edu/NAGTWorkshops/sedimentary/SGP2014/activities/84043.html>
- 2014 **Schmidt, A. H.**, 2014. Lag to peak with a stream table. A teaching activity online as part of the Cutting Edge Peer Reviewed Exemplary Teaching Activities collection.
<https://serc.carleton.edu/NAGTWorkshops/sedimentary/SGP2014/activities/84046.html>
- 2011 **Schmidt, A. H.**, 2011. Google Earth and Meandering Rivers. A teaching activity online as part of the Cutting Edge Peer Reviewed Exemplary Teaching Activities collection.
<https://serc.carleton.edu/NAGTWorkshops/earlycareer2011/activities/53876.html>
- 2011 **Schmidt, A. H.**, 2011. Logging, erosion, and sediment yield in western China. A vignette to accompany a new geomorphology textbook as online supplemental material.
<http://serc.carleton.edu/59464>
- 2011 **Schmidt, A. H.**, 2011. Effective discharge in monsoon controlled rivers. A vignette to accompany a new geomorphology textbook as online supplemental material.
<http://serc.carleton.edu/59944>
- 2011 **Schmidt, A. H.**, 2011. Blog posts for the NY Times Scientist at Work:
<http://scientistatwork.blogs.nytimes.com/author/amanda-schmidt/>
- 2010 **Henck, A. C.**, 2010, Spatial and temporal patterns of erosion in Western China and Tibet: University of Washington, 158 p. PhD dissertation.
- 2002 **Henck, A.**, 2002. Geomorphology of steep, forested headwater basins in the northeast. Princeton, NJ: Princeton University. 117 p. BSE thesis.

AWARDS AND HONORS

- 2021 Oberlin College LIASE award (research money and RA) for research in China
- 2021 Oberlin College Internal award for research assistant
- 2020 Oberlin College Powers award for research in Cuba
- 2020 Oberlin College Grant in Aid for research in Cuba
- 2020 Oberlin College LIASE award for research in China
- 2020 NSF Supplement for research in Cuba

2019 Collaborator on Natural Science Foundation of China project
 2019 2 Oberlin College Internal awards for research assistants
 2019 Oberlin College Powers award for research in China
 2019 Oberlin College Grant in Aid for research support
 2019 Oberlin College LIASE award for research in China
 2019 Fulbright Scholar award for 10 months of funded research in Sichuan, China
 2018 PRIME Lab Seed Grant
 2018 NSF Earth Sciences Instrumentation and Facilities grant; 2 years
 2018 Oberlin College Internal award for a research assistant
 2018 2 Oberlin College Grant in Aid awards for research support
 2018 2 Oberlin College Power Travel Grants to fund Cuba field work
 2018 2 Oberlin College LIASE research awards for Asian studies and the environment
 2017 American Philosophical Society Franklin Award
 2017 NSF Geomorphology and Land Use Dynamics RAPID grant; 1 year
 2017 NSF Geomorphology and Land Use Dynamics research grant; 2 years
 2017 Oberlin College LIASE grant to develop Asia-based material for a course
 2017 Oberlin College LIASE research assistant award for Asian studies and the environment
 2017 Oberlin College internal award for a research assistant
 2016 Oberlin College HHMI grant to add python material to GIS course
 2016 Oberlin College internal award for a research assistant
 2015 Oberlin College Powers Travel Grant to fund winter field work
 2015 Oberlin College Grant in Aid to fund winter field work
 2015 Oberlin College LIASE grant to develop Asia-based material for a course
 2015 Oberlin College internal award for a research assistant
 2015 Oberlin College Powers Travel Grant
 2015 Oberlin College Grant in Aid
 2014 Chinese Natural Science Foundation Young Foreign Researcher; finalist
 2014 Nominated for Oberlin College Professor Props
 2014 Oberlin College internal award for a research assistant
 2013 Oberlin College CLEAR Curriculum Development Grant
 2013 Oberlin College internal award for a research assistant
 2013 “Open Fund” grant from Academic Committee of the State Key Laboratory of Hydraulics and Mountain River Engineering (SKLH) at Sichuan University; 2 years
 2012 Oberlin College internal award for a research assistant
 2012 Graduate Women in Science Fellowship honorable mention
 2012 National Science Foundation Hydrological Sciences supplement to research grant; 6 months
 2011 National Science Foundation Hydrological Sciences research grant; 3 years
 2011 Oberlin College internal award for a teaching assistant
 2011 Oberlin College internal award for a research assistant
 2011 Oberlin Modeling Initiative grant
 2010 Jiuzhaigou National Park/Sichuan University Postdoctoral Research Fellowship; 2 years
 2009 Fulbright Student Fellowship
 2009 UW Earth and Space Sciences Joseph Vance Research Award
 2006 GSA J. Hoover Mackin Student Research Award
 2006 GSA Robert Fahnestock Student Research Award

- 2005 NSF Graduate Research Fellowship; 3 years
- 2005 Foreign Language and Area Studies Fellowship (declined due to other funding)
- 2004 Multinational Collaborations on Challenges to the Environment IGERT Fellow; 2 years

INVITED TALKS

- 2017 The effects of Chinese land use policies on erosion in southwest China; Tulane University; New Orleans; 29 September 2017
- 2017 Understanding hydrological processes of rivers in monsoon Asia; University of Nevada, Reno; 3 February 2017
- 2016 The effects of Chinese land use policies on erosion in southwest China; Vanderbilt University; 21 October 2016
- 2016 Modulation of the hydrological cycle in monsoon Asia by transient storage; Cambridge University; 19 May 2016
- 2016 Modulation of the hydrological cycle in monsoon Asia by transient storage; German Research Center for Geosciences (GFZ) Potsdam; 17 May 2016
- 2016 The effects of Chinese land use policies on erosion in southwest China; Appalachian State University; 18 March 2016
- 2016 Using ¹⁰Be and short-lived fallout radionuclides to track sediment movement through watersheds in Yunnan, China; Sichuan University; 19 January 2016
- 2016 Erosion and fire in the lower Jinsha; Sichuan University; 5 January 2016
- 2013 Spatial patterns of erosion in western China and Tibet; Illinois State University; 15 November 2013
- 2013 The effects of Chinese land use policies on erosion in western China; Mercyhurst University; 29 January 2013
- 2012 Spatial patterns of erosion in western China and Tibet; Wooster College; 13 September 2012
- 2012 An earth scientist's perspective on Big Interdisciplinarity; Social Science research Council Dissertation Proposal Development Workshop on Ecological History; 31 May 2012
- 2012 Spatial patterns of erosion in western China and Tibet; Kent State University; 6 April 2012
- 2010 Spatial controls on erosion in the Three Rivers Region, SW China (in Chinese); Chinese Academy of Sciences Hydrobiology Laboratory, Wuhan, China; 23 November 2010
- 2010 Spatial patterns of erosion in the Three Rivers Region, SW China; Rensselaer Polytechnic Institute; 3 February 2010
- 2009 Spatial controls on erosion in the Three Rivers Region, SW China; University of Vermont; 24 November 2009
- 2009 Cryptic legacy of Chinese Communist Party environmental policies on sediment yield in SW China and SE Tibet; University of Wisconsin; 16 November 2009

CONFERENCE ACTIVITY

Sessions organized

- 2018 The fluvial geomorphology of post-glacial rivers; Geological Society of America Annual Meeting; 6 November 2018
- 2017 The development and application of chronometers in geomorphology; American Geophysical Union Fall Meeting; 13 December 2017
- 2017 Fluvial Geomorphology of Post-Glacial Rivers; Geological Society of America Northeast/North central Section Meeting; 19 March 2017
- 2015 Orogenic Evolution from the Middle Crust to Earth's Surface; American Geophysical Union Fall Meeting; 14 and 15 December 2015
- 2010 Linking Life to Landscape Dynamics; American Geophysical Union Fall Meeting; 14 December 2010

Talks given

Note: invited talks are indicated with *

- 2020 *Using fallout and *in situ* radionuclides to understand the effects of a large tropical cyclone on erosion processes on Caribbean islands. Geological Society of America, online meeting, October 2020.
- 2019 Quantifying the effects of conventional and organic agriculture in central Cuba using short-lived fallout radionuclides in detrital river sediment. International Union of Geodesy and Geophysics, Montreal, CA. July 2019
- 2017 *The geomorphic history of humans in southwestern China; Geological Society of America Annual Meeting; 23 October 2017
- 2017 *Tracers derived in situ replicate and mix better than fallout tracers incorporated into grain coatings; Geological Society of America Annual Meeting; 22 October 2017
- 2016 Estimating transient water storage from precipitation-discharge hysteresis; Geological Society of America Annual Meeting; 25 September 2016
- 2015 Using ¹⁰Be and short-lived fallout radionuclides to track sediment movement through watersheds in Yunnan, China; Geological Society of America Annual Meeting; 2 November 2015
- 2013 Understanding hydrological processes of rivers draining the Tibetan Plateau; Geological Society of America Annual Meeting; 30 October 2013
- 2012 Why does the loess have stones in it? An investigation of loess deposits in Jiuzhaigou National Park, Sichuan, China; Geological Society of America Annual Meeting; 5 November 2012
- 2012 *What are Natural Landscapes? A Case Study of Land-use, Management, and People in Jiuzhaigou National Park, Sichuan, China; Association of American Geographers Annual Meeting; 25 February 2012
- 2009 Interdisciplinary investigations of anthropogenic hillslope terracettes, Jiuzhaigou National Park, China; North American Luminescence Workshop; October 2009
- 2009 Cryptic legacy of Chinese Communist Party policies on sediment yield in SW China and SE Tibet; Geological Society of America Fall Meeting; October 2009

- 2007 Patterns of Erosion in the Three Rivers Area, Eastern Tibet; Geological Society of America Fall Meeting; October 2007
- 2006 Patterns of Erosion in the Three Rivers Region, China; Western Pacific Geophysics Meeting; July 2006

Posters presented

- 2017 Agricultural land use doubled sediment yield of western China's rivers; American Geophysical Union Fall Meeting; 12 December 2017
- 2015 Effects of Chinese deforestation and reforestation policies on sediment sourcing in Yunnan, China; American Geophysical Union Fall Meeting; 15 December 2015
- 2011 Landslides, habitable land, and hazards for Tibetan villages in Jiuzhaigou National Park, Sichuan, China; Geological Society of America Fall Meeting; 11 October 2011
- 2007 Using interdisciplinary methods to understand Jiuzhaigou terraces; Conference for Sustainability IGERTs; October 2007
- 2007 Summary of June 2007 Research Collaborations; Conference for Sustainability IGERTs; October 2007
- 2006 Taking environmental science out of the classroom and into Jiuzhaigou National Park, Sichuan, China; Geological Society of America Fall Meeting; October 2006
- 2004 Three Pedagogical Internships; IGERT PI Annual Meeting; May 2004

Conference abstracts

Note: My name is bolded; undergraduate student co-authors are identified with a *.

- 2022 *Monyak, P., L. Holmes*, L. Fredell*, S. Macedo*, N. Smith*, **A. H. Schmidt**, and P. R. Bierman (2021). Determining the spatial and temporal impacts on erosion of hillslope land use in southwestern China. Geological Society of America Abstracts with Programs. Vol 53, No. 6, doi: 10.1130/abs/2021AM-368739.
- 2020 **Schmidt, A. H.**, Ludtke, S., Andermann, C (2020). Multiple measures of water storage in monsoon Asia. GRACE/GRACE-FO Science Team Meeting 2020, session B.4-Hydrology. *Invited talk given by Andermann.*
- 2020 **Schmidt, A. H.**, M. Quock*, A. Grande*, L. B. Corbett, P. Bierman, A. J. Hidy, M. W. Caffee, C. Lopez-Lloreda, J. Willenbring, W. H. McDowell, M. Hill*, Paige N. Monyak*, E. Amber*, A. Lewis*, E. A. Bordt* (2020). Using fallout and *in situ* radionuclides to understand the effects of a large tropical cyclone on erosion processes on Caribbean islands. Geological Society of America *Abstracts with Programs*. 52(6). Doi: 10.1130/abs/2020AM-355936.
- 2020 Bierman, P., R. Sibello-Hernández, M. K. Campbell, D. Dethier, Y. Bolanos-Álvarez, M. Massey-Bierman, A. Guillén-Arruebarrena, J. Racela, **A. H. Schmidt**, H. Cartas-Aguila, L. B. Corbett, C. Alonso-Hernández, M. Dix* and M. Caffee (2020). Cosmogenic radionuclide erosion rates and chemical denudation rates in Cuba are not related. Geological Society of America NE SE Meeting. Washington DC. (Note: Abstract was accepted and published but meeting was canceled due to COVID.)
- 2020 Campbell, M. K., P. Bierman, **A. H. Schmidt**, R. Sibello-Hernández, A. Garcia-Moya, H. Cartas-Aguila, Y. Bolanos-Álvarez, A. Guillén-Arruebarrena, D. Dethier, M. Dix*, M. Massey-Bierman, L. B. Corbett and M. Caffee (2020). Cosmogenic erosion rates in

- central and western Cuba. Geological Society of America NE SE Meeting. Washington, DC. (Note: Abstract was accepted and published but meeting was canceled due to COVID.)
- 2020 Grande*, A., **A. H. Schmidt**, P. Bierman, L. B. Corbett, C. Lopez Lloreda, W. H. McDowell and M. Caffee (2020). Temporal variance of erosion in Luquillo, Puerto Rico post-Hurricane Maria detected using time series of isotopic measurements in detrital sediment. Geological Society of America NE SE Joint Meeting. Washington DC. (Note: Abstract was accepted and published but meeting was canceled due to COVID.)
- 2019 Adler, T., M. K. Campbell, P. Bierman, J. Perdrial, M. Landsman-Gerjoi, **A. H. Schmidt**, M. Dix*, A. Garcia-Moya, R. Sibello-Hernández, H. Cartas-Aguila and A. Guillén-Arruebarrena (2019). Optical properties of riverine dissolved organic matter (DOM) from Central Cuba. International Union of Geodesy and Geophysics. Montreal, CA.
- 2019 *Amber, E., A. Lewis*, E. Bermudez*, E. A. Bordt*, M. Hill*, M. Quock, N. Soord*, L. B. Corbett, **A. H. Schmidt** and P. Bierman (2019). "Hurricanes alter short-term concentration of detrital ^{10}Be , ^{210}Pb , ^{137}Cs , and ^7Be , but do not change long-term erosion rate estimates." Geological Society of America Abstracts with Programs **51**(5).
- 2019 Bierman, P., **A. H. Schmidt**, M. K. Campbell, D. Dethier, M. Dix*, J. Racela, J. Perdrial, M. Massey-Bierman, R. Sibello-Hernández, H. Cartas-Aguila, A. Guillén-Arruebarrena, A. Garcia Moya and C. Alonso-Hernández (2019). "Central Cuban river waters indicate high rates of chemical weathering whereas low nutrient loads reflect sustainable agricultural practices." Geological Society of America Abstracts with Programs **51**(5).
- 2019 Bierman, P., **A. H. Schmidt**, R. Y. S. Hernández, M. Campbell, H. A. C. AGUILA4, Y. B. Alvarez, A. G. Arruebarrena, D. Dethier, M. Dix*, M. Massey-Bierman, A. G. Moya, J. Perdrial, J. Racela, L. Corbett and C. Alonso-Hernández (2019). "First Chemical and Isotopic Denudation Rate Estimates for Central Cuban Drainage Basins." Goldschmidt Abstracts **2019**: 288.
- 2019 Bierman, P., **A. H. Schmidt**, M. Massey-Bierman, D. Dethier, J. Racela, M. Dix*, M. K. Campbell, J. Perdrial, R. Sibello-Hernández, A. Garcia-Moya, H. Cartas-Aguila and A. G. Arruebarrena (2019). River water quality in 25 central Cuban drainage basins - nutrients, metals, and bacteria. International Union of Geodesy and Geophysics, Montreal, CA.
- 2019 Campbell, M. K., P. Bierman, **A. H. Schmidt**, R. Sibello-Hernández, A. Garcia-Moya, H. Cartas-Aguila, Y. Bolanos-Álvarez, A. Guillén-Arruebarrena, D. Dethier, M. Dix*, M. Massey-Bierman, L. B. Corbett, M. Caffee and C. Alonso-Hernández (2019). "First denudation rate estimates for river basins in central Cuba from geochemical, cosmogenic isotope, and sediment yield data." Geological Society of America Abstracts with Programs **51**(5).
- 2019 *Dix, M., Z. Hecht*, E. Bermudez*, **A. H. Schmidt**, P. Bierman, M. K. Campbell, D. Dethier, J. Racela, J. Perdrial, M. Massey-Bierman, R. Sibello-Hernández, H. Cartas-Aguila, A. Guillén-Arruebarrena, A. Garcia-Moya and C. Alonso-Hernández (2019). "Quantifying the effects of organic agriculture in 26 central Cuban rivers using short-lived fallout radionuclides in detrital river sediment." Geological Society of America Abstracts with Programs **51**(5).
- 2019 *Dix, M., L. Milando*, S. Mader*, C. Burchfiel*, A. Lewis*, M. Hill*, F. Sussman* and **A. H. Schmidt** (2019). Seasonal impact of land use on erosion and creek development in

- Plum Creek, Oberlin OH. International Union of Geodesy and Geophysics. Montreal, CA.
- 2019 *Larson, C., B. Langenfeld*, C. M. Flood and **A. H. Schmidt** (2019). "Spatial analysis of unconventional gas infrastructure location emissions in relation to public schools in Washington County, PA." Geological Society of America Abstracts with Programs **51**(1).
- 2019 Massey-Bierman, M., P. Bierman, M. K. Campbell, **A. H. Schmidt**, M. Dix*, J. Racela, D. Dethier, R. Sibello-Hernández, H. Cartas-Aguila, A. Garcia-Moya and A. G. Arruebarrena (2019). Effects of bedrock weathering on central Cuban river water chemistry. International Union of Geodesy and Geophysics, Montreal, CA.
- 2019 *Monyak, P., S. Maffie*, A. Grande*, E. Bermudez*, N. Soord*, S. Mader*, L. Holmes*, Z. Hecht*, **A. H. Schmidt** and P. Bierman (2019). "Using fallout radionuclides to identify the erosional impact of land use in southwestern China." Geological Society of America Abstracts with Programs **51**(5).
- 2019 *Monyak, P., S. Maffie*, A. Grande*, N. Soord*, S. Ode*, L. Holmes*, L. Milando*, Z. Hecht*, Z. Martin del Campo*, M. Hill*, J. Martin*, **A. H. Schmidt** and P. Bierman (2019). Using short-lived radionuclides to detect the effects of agricultural land use and reforestation on erosion in Southwestern China. International Union of Geodesy and Geophysics. Montreal, CA.
- 2019 Quock, M., M. Hill*, E. A. Bordt*, E. Amber*, A. Lewis*, L. B. Corbett, J. Biales*, **A. H. Schmidt** and P. Bierman (2019). Changes to spatial erosion patterns due to Hurricane Maria in Dominica, Lesser Antilles, Caribbean. International Union of Geodesy and Geophysics. Montreal, CA.
- 2019 **Schmidt, A. H.**, P. Bierman, M. Dix*, E. Bermudez*, Z. Hecht*, M. K. Campbell, L. Williamson, R. Sibello-Hernández, H. Cartas-Aguila, A. Garcia-Moya and A. Guillén-Arruebarrena (2019). Quantifying the effects of conventional and organic agriculture in central Cuba using short-lived fallout radionuclides in detrital river sediment. International Union of Geodesy and Geophysics, Montreal, CA.
- 2019 *Soord, N., D. Beer, M. Frey, L. Holmes, A. Lewis, Z. Martin del Campo, R. Milligan, P. Monyak, R. Simmons, A. H. Schmidt, P. Bierman, C. Cottine, C. Parris, X. Qiao and Y. Tang (2019). River and tap water quality at tourist sites, hotels, and restaurants in Sichuan, China. International Union of Geodesy and Geophysics. Montreal, CA.
- 2019 Williamson, L., N. Perdrial, J. M. Hughes, M. K. Campbell, **A. H. Schmidt**, R. Sibello-Hernández, A. Garcia-Moya, H. Cartas-Aguila, Y. Bolanos-Álvarez, A. Guillén-Arruebarrena, D. Dethier, M. Dix*, M. Massey-Bierman, C. Alonso-Hernández, J. Racela and P. Bierman (2019). "Better understanding the geology of central Cuba through stream sediment composition analysis using x-ray diffraction." Geological Society of America Abstracts with Programs **51**(5).
- 2018 *Maffie, S., *Grande, A., *Soord, N., **Schmidt, A. H.**, Bierman, P. R., 2018. Analyzing the effects of land use on soil erosion in southwestern China using fallout radionuclides. Geological Society of America Abstract with Programs. Vol. 50, No. 6. doi: 10.1130/abs/2018AM-321852
- 2018 *Dix, M., *Lewis, A., *Hill, M., *Maffie, S., *Sussman, F., **Schmidt, A. H.**, 2018. Short-term study of the impact of land use on creek development in Plum Creek, Oberlin OH. Geological Society of America Abstract with Programs. Vol. 50, No. 6. doi: 10.1130/abs/2018AM-321005

- 2018 *Hill, M., *Bordt, E. A., *Quock, M., *Amber, E., Corbett, L. B., *Biales, J., **Schmidt, A. H.**, Bierman, P. R., 2018. Assessing spatial erosion patterns resulting from Hurricane Maria on Dominica, Lesser Antilles, Caribbean. Geological Society of America Abstract with Programs. Vol. 50, No. 6. doi: 10.1130/abs/2018AM-321777
- 2018 *Hill, M., *Bordt, E. A., *Quock, M., *Amber, E., Corbett, L. B., *Biales, J., **Schmidt, A. H.**, Bierman, P. R., 2018. Assessing spatial erosion patterns resulting from Hurricane Maria on Dominica, Lesser Antilles, Caribbean. National Association of Black Geologists Annual Meeting.
- 2017 Bierman, P. R., Corbett, L. B., Shakun, J. D., **Schmidt, A. H.**, 2017. Counting atoms to place human impacts in a geologic context. Geological Society of America Abstracts with Programs. Vol. 49, No. 6. doi: 10.1130/abs/2017AM-306223
- 2017 *Dix, M., *Hill, M., *Sussman, F., **Schmidt, A. H.**, 2017. Temporal and spatial variability in sediment source in Plum Creek, Oberlin, OH. Geological Society of America Abstracts with Programs. Vol. 49, No. 6. doi: 10.1130/abs/2017AM-300191
- 2017 *McGuire, C., **Schmidt, A. H.**, Keen-Zebert, A., Collins, B. D., d'Alpoim Guedes, J., 2017. Timing and provenance of loess in Jiuzhaigou, China. Geological Society of America Abstracts with Programs. Vol. 49, No. 6. doi: 10.1130/abs/2017AM-307967
- 2017 **Schmidt, A. H.**, Bierman, P. R., Sosa-Gonzalez, V., Neilson, T. B., Rood, D. H., *Martin, J., *Hill, M. 2017. Agricultural land use doubled sediment yield of western China's rivers, Abstract EP21D-1867 presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- 2017 **Schmidt, A. H.**, Bierman, P. R., Collins, B. D., Harrell, S., Hinckley, T., Tang, Y., 2017. The geomorphic history of humans in southwestern China. Geological Society of America Abstracts with Programs. Vol. 49, No. 6. doi: 10.1130/abs/2017AM-303455
- 2017 **Schmidt, A. H.**, Bierman, P. R., Sosa-Gonzalez, V., Neilson, T. B., Rood, D. H., *Campbell, M. K., *Hill, M., 2017. Tracers derived *in situ* replicate and mix better than fallout tracers incorporated into grain coatings. Geological Society of America Abstracts with Programs. Vol. 49, No. 6. doi: 10.1130/abs/2017AM-299479
- 2017 *Talbot-Wendlandt, H., *Jimerson, C., *Tomenchok, K., *Hill, M., **Schmidt, A. H.**, Frey, H. M., 2017. Spatial patterns of erosion on Dominica, a volcanic tropical island. Geological Society of America Abstracts with Programs. Vol. 49, No. 6. doi: 10.1130/abs/2017AM-299765
- 2017 *Tomenchok, K., *Hill, M., *Jimerson, C., *Talbot-Wendlandt, H., **Schmidt, A. H.**, Frey, H. M., 2017, Landslides and Volcanoes: Fingerprinting Erosional Processes on a tropical island, Dominica, Lesser Antilles, Abstract EP51A-1636 presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- 2017 *Campbell, M. K., **Schmidt, A. H.**, *Woodmansee, S. J., and *Bower, J. A., 2017, The effects of agricultural drainage tiles on erosion in the Vermillion River watershed, northeastern Ohio: Geological Society of America Abstracts with Programs, v. 49, no. 2.
- 2017 *Martin, J., **Schmidt, A. H.**, 2017. Teaching python scripting through ArcGIS: Geological Society of America Abstracts with Programs, v. 49, no. 2.
- 2016 *Campbell, M. K., **Schmidt, A. H.**, *Woodmansee, S. J., and *Bower, J. A., 2016, The effects of agricultural drainage tiles on erosion in the Vermillion River watershed, northeastern Ohio: Geological Society of America Abstracts with Programs, v. 48, no. 7.

- 2016 *Curiel, M., *Doak, S., *Hill, M., **Schmidt, A. H.**, and Collins, B., 2016, Quantifying land use and erosion in southwest China: Geological Society of America Abstracts with Programs, v. 48, no. 7.
- 2016 *Hill, M., *Singleton, A. A., *Isaacs, C., *Dix, M., Greene, E. S., **Schmidt, A. H.**, and Bierman, P. R., 2016, Acid leaching to increase detection limits in gamma counting unsupported Pb-210, National Association of Black Geoscientists Annual Technical Conference: New Orleans, LA.
- 2016 **Schmidt, A. H.**, Andermann, C., and Ludtke, S., 2016, Estimating transient water storage from precipitation-discharge hysteresis: Geological Society of America Abstracts with Programs, v. 48, no. 7.
- 2016 *Singleton, A., *Isaacs, C., *Hill, M., *Dix, M., Greene, E. S., **Schmidt, A. H.**, and Bierman, P. R., 2016, Acid leaching to increase detection limits in gamma counting unsupported Pb-210: Geological Society of America Abstracts with Programs, v. 48, no. 7.
- 2015 *Campbell, M. K., *Bower, J. A., **Schmidt, A. H.**, Neilson, T. B., Sosa-Gonzalez, V., and Bierman, P. R., 2015, Fallout radionuclides in soil profiles and history of land use in Yunnan Province, China: Geological Society of America Abstracts with Programs, v. 47, no. 7, p. 515.
- 2015 *Fiallo, D., **Schmidt, A. H.**, and Simonson, B. M., 2015, Using grain size and carbonate precipitation in loess terraces to reconstruct mass wasting events and trace groundwater movement: Geological Society of America Abstracts with Programs, v. 47, no. 7, p. 735.
- 2015 *Martin, J., *Lawrence, D., **Schmidt, A. H.**, Bierman, P. R., Sosa-Gonzalez, V., *Singleton, A., and *Qiu, Y., 2015, Effects of Chinese deforestation and reforestation policies on sediment sourcing in Yunnan, China: Geological Society of America Abstracts with Programs, v. 47, no. 7, p. 515.
- 2015 **Schmidt, A. H.**, Bierman, P. R., Sosa-Gonzalez, V., Neilson, T. B., *Singleton, A., *Qiu, Y., *Bower, J. A., and Rood, D. H., 2015a, Effects of Chinese deforestation and reforestation policies on sediment sourcing in Yunnan, China, v. Abstract EP21C-0923 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
- 2015 **Schmidt, A. H.**, Neilson, T. B., Bierman, P. R., Sosa-Gonzalez, V., *Bower, J. A., Rood, D. H., and Ouimet, W. B., 2015b, Using ^{10}Be and short-lived fallout radionuclides to track sediment movement through watersheds in Yunnan, China: Geological Society of America Abstracts with Programs, v. 47, no. 7, p. 240.
- 2015 *Singleton, A., **Schmidt, A. H.**, Sosa-Gonzalez, V., *Qiu, Y., Neilson, T. B., Greene, E. S., Bierman, P. R., Rood, D. H., *Campbell, M. K., and *Woodmansee, S. J., 2015, Effects of grain size and mineralogy on the distribution of fallout radionuclides ^7Be , ^{10}Be , ^{137}Cs , and ^{210}Pb in sediment: Geological Society of America Abstracts with Programs, v. 47, no. 7, p. 240.
- 2015 Sosa-Gonzalez, V., **Schmidt, A. H.**, Bierman, P. R., Neilson, T. B., *Singleton, A., *Qiu, Y., *Bower, J. A., and Rood, D. H., 2015, Understanding sediment sourcing and erosion controls from ^{10}Be measurements in fluvial sediments from Yunnan, China: Geological Society of America Abstracts with Programs, v. 47, no. 7, p. 240.
- 2014 *Dunn, C., B. C. Yellen, J. Woodruff, **A. H. Schmidt**, 2014. How unusual is Tropical Storm Irene? A case study of storm deposition in the Littleville Lake, Huntington, MA. Geological Society of America *Abstracts with Programs* 46(2), 84.

- 2014 *Garcia Greco, G., *D. Fiallo, T. B. Neilson, *J. Martin, A. H. Schmidt, P. Bierman, V. Sosa-Gonzalez, R. J. Wei, C. M. Zhang, C. Liang, 2014. Determining sediment sources and sinks in a small headwater watershed in Yunnan, China using short-lived radionuclides. Geological Society of America *Abstracts with Programs* 46(6), 800.
- 2014 Neilson, T. B., P. Bierman, A. H. Schmidt, V. Sosa-Gonzalez, D. Rood, 2014. Impacts of contemporary sediment yield on the use of *in situ* ^{10}Be in river sediment as a tool for estimating background erosion rates. Geological Society of America *Abstracts with Programs* 46(6), 665.
- 2014 *Woodmansee, S., *J. A. Bower, **A. H. Schmidt**, 2014. Using short lived radionuclides and x-ray diffraction to explore the effects of agricultural drainage tiles on depth of erosion in the Vermilion watershed, Northern Ohio. Geological Society of America *Abstracts with Programs* 46(6), 800.
- 2013 Neilson, T. B., **A. H. Schmidt**, V. Sosa-Gonzalez, *M. Rothenberg, P. Bierman, 2013. Understanding modern landscape behavior using meteoric and *in situ* ^{10}Be and ^{137}Cs in large river basins, SW China. Geological Society of America *Abstracts with Programs* 45(7).
- 2013 **Schmidt, A. H.**, C. Andermann, S. Ludtke, *A. J. Gillom, 2013. Understanding hydrological processes of rivers draining the Tibetan Plateau. Geological Society of America *Abstracts with Programs* 45(7).
- 2013 *Gilliom, A. J., **A. H. Schmidt**, C. Andermann, *M. Rothenberg, 2013. Groundwater storage in western China and eastern Tibet observed from precipitation-discharge hysteresis. Geological Society of America *Abstracts with Programs* 45(4), 62. (note: this poster won best student poster at the meeting.)
- 2012 *Bower, J. A., **A. H. Schmidt**, 2012. Using short-lived radionuclides to explore the effects of agricultural drainage tiles on erosion depth in the Vermilion watershed, Ohio. Geological Society of America *Abstracts with Programs* 44(7), 418.
- 2012 *Curliss, L., **A. H. Schmidt**, 2012. Controls on bedrock sinuosity in Eastern Tibet. Geological Society of America *Abstracts with Programs* 44(7), 247.
- 2012 **Schmidt, A. H.**, B. D. Collins, B. M. Simonson, *K. X. Goh, *Z. Alikaya, Y. Tang, G. P. Deng, 2012. Why does the loess have stones in it? An investigation of loess deposits in Jiuzhaigou National Park, Sichuan, China. Geological Society of America *Abstracts with Programs* 44(7), 186.
- 2012 **Schmidt, A. H.**, L. S. Urgenson, J. K. Combs, Q. X. Yang, Z. Y. Ma, T. M. Hinckley, and S. Harrell, 2012. What are Natural Landscapes? A Case Study of Land-use, Management, and People in Jiuzhaigou National Park, Sichuan, China. In "Association of American Geographers." New York, NY.
- 2011 Collins, B. D., **A. H. Schmidt**, S. Harrell, 2011. Soil erosion, fluvial processes, and land use history in a mountainous catchment in southwest Sichuan Province, China. Association of American Geographers Annual Meeting, Seattle, WA.
- 2011 *Rothenberg, M., *L. Gelb, *C. A. Appleby, *B. M. Sherrod, *S. Taylor, and **A. H. Schmidt**, 2011. GIS and community-based learning in an undergraduate classroom. Geological Society of America *Abstracts with Programs* 43(5), 403.
- 2011 **Schmidt, A. H.**, B. D. Collins, *K. X. Goh, J. P. Schmidt, Y. Tang, Y. X. Li, and G. P. Deng, 2011. Landslides, habitable land, and hazards for Tibetan villages in Jiuzhaigou National Park, Sichuan, China. Geological Society of America *Abstracts with Programs* 43(5), 446.

- 2010 Lu, H. L., **A. Henck**, J. Taylor, Y. X. Li, 2010. Archaeological research at a Han Dynasty settlement in Jiuzhaigou National Park, Sichuan. Society of American Archaeologists, St. Louis, MO.
- 2009 **Henck, A.**, J. Taylor, J. Feathers, T. Hinckley, H. L. Lu, Y. X. Li, Y. Tang, 2009. Interdisciplinary investigations of anthropogenic hillslope terraces, Jiuzhaigou National Park, China. North American Luminescence Workshop. Seattle, WA. October 2009.
- 2009 **Henck, A.**, D. R. Montgomery, C. Liang, 2009. Cryptic legacy of Chinese Communist Party policies on sediment yield in SW China and SE Tibet. Geological Society of America *Abstracts with Programs*, Vol. 41.
- 2008 Feathers, J. K., M. A. Casson, and **A. Henck**, 2008, Application of pulsed OSL to fine-grained samples. Presented at the 12th International Conference on Luminescence and Electron Spin Resonance Dating, Beijing.
- 2008 Hagedorn, B., B. K. Nelson, T. J. Kennel, **A. Henck**, and B. Hallet, 2008. Seasonal trends in solutes and $^{87}\text{Sr}/^{86}\text{Sr}$ ratios of SE Tibet rivers: Yarlung Tsangpo and Parlung. Goldschmidt Conference 2008, Vancouver. *Geochimica et Cosmochimica Acta* 72 (12): A400.
- 2008 Taylor, J., **A. Henck**, Y. X. Li, H. L. Lu, and Q. X. Yang, 2008. Interdisciplinary, international research at the Asano Archaeological Site, Jiuzhaigou National Park, Sichuan, China. Society of American Archaeologists, Vancouver, Canada.
- 2007 **Henck, A.**, J. O. Stone, D. R. Montgomery, B. Hallet, 2007. Patterns of Erosion in the Three Rivers Area, Eastern Tibet. Geological Society of America *Abstracts with Programs*, Vol. 39, No. 6, p. 183.
- 2006 Koons, P., B. Hallet, **A. Henck**, Y. P. Liu, P. Zeitler, 2005. Topographic Expression of Crustal Velocity Curves: An Example from Eastern Himalaya to Burma. *Eos Trans. AGU*, v. 87 no. 47, Fall Meeting Suppl., Abstract T51F-07.
- 2006 **Henck, A.**, D. Montgomery, B. Hallet, C. Liang, S. Frister, 2006. Patterns of Erosion in the Three Rivers Region, China. *Eos Trans. AGU*, 87(36), West. Pac. Geophys. Meet. Suppl., Abstract H25A-03.
- 2006 **Henck, A.**, M. D. Mulligan, S. Frister, A. Scanlon, R. Chen, T. Hinckley, S. Harrell, 2006. Taking environmental science out of the classroom and into Jiuzhaigou National Park, Sichuan, China. Geological Society of America *Abstracts with Programs*, Vol. 38, No. 7, p. 220.
- 2005 Dryer, D., L. Gaulke, **A. Henck**, T. Nguyen, E. Wheat, 2005, Assessing the oxygen dead zone in the Hood Canal. International Conference on Environment and Livelihoods in Coastal Zones: Managing Agriculture-Fishery-Aquaculture Conflicts, Bac Lieu, Vietnam.
- 2004 Montgomery, D., B. Hallet, Y. P. Liu, N. Finnegan, A. Gillespie, M. Kuharic, **A. Henck**, A. Anders, & H. Greenberg, 2004. Evidence for Holocene megafloods down the Tsangpo River Gorge, Southeastern Tibet. *Eos Trans. AGU*, v. 85 no. 47, Fall Meeting Suppl. Abstract T34B-02.

CAMPUS TALKS

- 2019 The effects of Chinese land use policies on erosion in southwest China; Graduate seminar at Sichuan University; 12 November 2019

- 2017 The effects of Chinese land use policies on erosion in southwest China; Science Friday, Oberlin College; 17 February 2017
- 2011 Quantifying Tibetan land use choices in Jiuzhaigou National Park; Science Friday, Oberlin College; 8 April 2011
- 2010 Quantifying Tibetan land use choices in Jiuzhaigou National Park (in Chinese); Sichuan University, Sichuan, China; 30 November 2010
- 2010 Anthropogenic Hillslope Terraces (in Chinese); Jiuzhaigou National Park Management Bureau; 15 July 2010
- 2008 Epistemology of Erosion; University of Washington; 26 March 2008

TEACHING EXPERIENCE

Oberlin College

- Topics in Geochemistry (Fall 2020)
- Earth Surface Processes (Spring 2011, Fall 2012, Spring 2013, Spring 2014, Spring 2016, Spring 2017, Spring 2018, Spring 2019, Spring 2021, Fall 2021)
- Applied Geographic Information Systems (Spring 2011, Spring 2012, Fall 2013, Spring 2016, Fall 2016, Fall 2017, Fall 2018)
- Soils and Society (Spring 2012, Spring 2013, Spring 2014, Fall 2017, Spring 2019, Fall 2020)
- Earth's Environment (lab only) (Fall 2013, Fall 2016, Fall 2017, Fall 2018)
- Earth Science and Social Justice (lab only) (Fall 2021)

University of Washington

- Introduction to Environmental Science (Summer 2009)
- Field Environmental Science (co-instructor) (Summer 2006)
- Sichuan University and University of Washington Exchange Program (site director) (2005-2006)
- Fluvial Geomorphology (TA) (Spring 2004)
- Introduction to Geology (TA) (Fall 2003)

RESEARCH EXPERIENCE

- Investigating evidence for a large paleolake in SW Sichuan (Fulbright)
- Temporal and spatial variability in water quality in surface and tap water in Sichuan, China
- Erosion, chemical weathering, and water quality in Cuba (collaborative with University of Vermont, Williams College, and the Center for the Study of the Environment in Cuba)
- Effects of large storms on erosion – case studies in Dominica and Puerto Rico following Hurricane Maria (collaborative with USGS, University of Vermont, and University of New Hampshire)
- Landslides and tropical storms in setting patterns of erosion in Dominica (Keck project)
- Groundwater storage in monsoon Asia (collaborative with an Oberlin student and GFZ German Research Centre for Geosciences, Potsdam)
- Understanding the effects of drainage tiles on erosion depth and sediment sources in the Vermilion watershed, Ohio (collaborative with Oberlin students)
- Controls on bedrock river sinuosity in eastern Tibet (collaborative with an Oberlin student)

Understanding human-altered landscapes, Jiuzhaigou National Park, China (collaborative with the University of Washington and Sichuan University)
Human-landscape interactions in Yangjuan, Sichuan, China (collaborative with the University of Washington and Sichuan University)
Deciphering connections among land management, soil erosion, and sediment yield in large river basins (collaborative with Oberlin students, the University of Vermont, Imperial College London, and Sichuan University)
Spatial and temporal patterns of erosion in western China (dissertation; collaborative with Sichuan University)
Assessing the oxygen dead zone in the Hood Canal (interdisciplinary project at the University of Washington)
Geodynamics of Indentor Corners – Namche Barwa (RA on multi-institutional project)

SERVICE TO PROFESSION

Served on National Science Foundation panels for:
Geomorphology and Land Use Dynamics division (3)
Critical Zone Research Coordination Networks (2)

Reviewed proposals for:
American Philosophical Society (4)
National Science Foundation
Hydrologic Sciences division (2)
Geomorphology and Land Use Dynamics division (6)
Geography and Spatial Sciences division (1)
Paleo Perspectives on Climate Change (1)
Integrated Earth Systems (1)
National Geographic Society Young Explorer's Award (1)
Natural Sciences and Engineering Research Council of Canada Collaborative
Research and Training Experience Program (1)
Quaternary Geology and Geomorphology division at GSA (student awards) (1 year, 5 students)
Fund for Scientific Research (FNRS) (Belgium) (1)

Reviewed manuscripts for:
Annals of the Association of American Geographers (1 paper, reviewed twice)
Arid Land Management (1)
Basin Research (1)
Catena (2)
Conservation Letters (1)
Earth Surface Processes and Landforms (2)
Environmental Practice (1)
Environmental and Engineering Geology (1)
Geochimica et Cosmochimica Acta (1)
Geology (1)
Geomorphology (1)
Geophysical Research Letters (1 paper, reviewed twice)
Gondwana Research (1)

International Journal of Nursing Education (1)
Journal of Asian Earth Sciences (1)
Journal of Geoscience Education (3)
Journal of Mountain Science (1)
Progress in Physical Geography (1)
Science Advances (4)
Science of the Total Environment (1)
Scientific Reports – Nature Publishing Group (1)
Quaternary International (1)
Member of the awards panel for the Quaternary Geology and Geomorphology Section of the Geological Society of America (2013-2015)
Nominated paper for the Kirk Bryan Award (Quaternary Geology and Geomorphology Section of the Geological Society of America) (2015)

DEPARTMENTAL/COLLEGE SERVICE

Chair of Geology (2021-2025)
Science Advisory Committee (2nd to chair); 2017-2018; 2018-2019 (for ESPC and geology)
Environmental Studies Program Committee; 2018-2019
Led winter term trip to China (January 2019)
Workshop on communicating science with figures for STRONG Scholars (2016, 2017)
Met with visiting HHMI awardees from U. Houston; 2017
Admissions panels; 2016, 2017
Participated in brainstorming sessions for HHMI proposal; 2016
Traveled to NY with admissions office; 2016
Assisted with Keck Symposium at Oberlin and was Keck rep. at GSA meeting; 2016
Hosted department seminar speakers; 2013, 2014, 2016
Co-facilitator (with Steven Wojtal) of LIASE workshop on resilience; November 2014
Archaeological Studies Committee; 2013-2014, 2016-2017, 2017-2018, 2018-2019 (Chair), 2020-2022
Fellowship Committee; 2011-2012, 2013-2014, 2016-2017, 2017-2018
Geology department searches for visiting assistant professor (7 searches); 2011-2019
Luce in Asia Studying the Environment grant proposal group; 2012-2014
Quantitative and Formal Reasoning Committee; 2013-2014, 2016-2017
Science Friday seminar series organizer; 2011-2012

EXTRACURRICULAR COLLEGE SERVICE

Bahá'í affiliate with the Office of Religious and Spiritual Life; 2015-2019, 2020-2021
Advisor to Oberlin College Cycling Team; 2011-2012; 2018-2019

COMMUNITY INVOLVEMENT/OUTREACH

2021 Skype a Scientist – video chat with 5 teachers and classes
2020 Skype a Scientist – video chat with 5 teachers and classes

- 2019 Publishing in international journals workshops on writing scientific papers for graduate students at Sichuan University (4 workshops in fall 2019)
- 2019 Skype a Scientist – video chat with 2 teachers and classes
- 2018 Skype a Scientist – video chat with 5 teachers and 6 class sessions
- 2018 Skype interview with 5th grade science class for Women in Science week (with an OC research student)
- 2017 Skype interview with 3rd grade science class for Women in Science week (with an OC research student)
- 2017 Interviewed by the Government Information Service TV station in Dominica
- 2017 Interviewed by Dominica Traveler about my research
- 2016 Coordinate geology department participation in STEM Night – outreach for local grade 3-5 students

MEDIA COVERAGE

- 2021 A student made a video about our field work in Martha’s Vineyard (<https://youtu.be/314czoY2Ank>)
- 2021 Research Gate wrote about how we used their platform to find our Cuban collaborators (<https://www.researchgate.net/researcher-stories/amandahenckschmidt>)
- 2020 Our first article about Cuba got some press attention. (<https://www.uvm.edu/uvmnews/news/cuba-cleaner-rivers-follow-greener-farming>)
- 2019 Oberlin wrote about the Fulbright that I got for my sabbatical. (<https://www.oberlin.edu/news/amanda-schmidt-receives-fulbright-us-scholar-program-award>)
- 2019 Oberlin published a video about student research that my students and I are featured in. (<https://vimeo.com/327781060/6c8e1c83a4?fbclid=IwAR3Sxn1UGAeH1zGQqyAuDT5PIeonh7a3iOIulTEmFExc6ttmzQUntU59tJ0>)
- 2019 Oberlin wrote about my winter (January) term trip to China with students. (<https://www.oberlin.edu/news/students-and-faculty-travel-china-through-liase-grant>) A student also made a video of the trip. (<https://www.youtube.com/watch?v=vVgw5ZhTrG0&feature=youtu.be>)
- 2019 Oberlin wrote about my work in Dominica (<https://www.oberlin.edu/news/and-after-storm-geology-research-offers-rare-view-erosion-caribbean>)
- 2019 Oberlin wrote about my work in Cuba (<https://www.oberlin.edu/news/associate-professor-geology-amanda-schmidt-and-monica-dix-20-conduct-research-cuba>)
- 2018 Hong Kong International School (my alma mater) featured me on page 50 of the alumni magazine (https://issuu.com/hkisadvancement/docs/hkis_dt_winter_2018_small)
- 2015 A River Wild. Oberlin College news article about my field work (<http://news.oberlin.edu/articles/river-wild/>)
- 2014 The Role of Fallout Radionuclides in River Erosion. Oberlin College news article about my grain size study (<https://oncampus.oberlin.edu/source/articles/2015/08/31/role-fallout-radionuclides-river-erosion>)
- 2013 ‘Case of the Missing Dirt’ Brings Oberlin to China. Oberlin College news article about my field work (<http://news.oberlin.edu/articles/case-missing-dirt-brings-oberlin-china/#.UqXE6eJkZ8E>)

ADDITIONAL PROFESSIONAL TRAINING

Workshops hosted off campus

- 2017 Building Resilient Communities: Ethnic and Religious Dialogue; Philadelphia, PA; July 2017.
- 2014 Teaching Sedimentary Geology, Geomorphology, and Paleontology; St. Paul, MN; June 2014. Gave invited presentation at workshop.
- 2013 Concept Sketches in Geoscience Courses; Online webinar
- 2012 Teaching Problem Solving; Online reading and discussion group
- 2011 Early Career Workshop for Geoscience Faculty; Williamsburg, VA; June 2011
- 2011 Designing GIS and Remote Sensing Courses; Online workshop

Workshops hosted at Oberlin

- 2015 Art to Survive Disasters By; Oberlin, OH; February 2015
- 2013 Junior faculty workshop on developing new approaches to teaching
- 2013 Enhancing Quantitative and Formal Reasoning Across the Disciplines
- 2012 Workshop on Experiential Learning and the Oberlin Project
- 2012 Workshop for junior faculty on Incorporating Writing into Classes
- 2011 Making Writing More Visible in Our Classes

LANGUAGES

Mandarin Chinese, excellent speaking, good reading and writing

PROFESSIONAL MEMBERSHIPS

American Geophysical Union
Association of American Geographers
Association of Women Geoscientists
Earth Science Women's Network
Geological Society of America
National Association of Geoscience Teachers
Sigma Xi