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EDUCATION

EDUCATION	
 Donald Bren School of Environmental Science and Management University of California Santa Barbara, California (CA) Ph.D. Title: 'Modeling Spatial and Temporal Patterns in Flow and Sediment Transport and Storage in Large, Lowland Rivers. Advisor: Tom Dunne 	June 2003
The Evergreen State College (TESC), Olympia, Washington. • Area of Concentration: Environmental Science. Bachelors of Arts.	June 1993
Tulane University, New Orleans, Louisiana.Area of concentration: International Relations.	1989-1991
CURRENT APPOINTMENTS	
Professor School of Earth and Environmental Sciences, Cardiff University, Wales, UK	2021-
Deputy Director Water Research Institute, Cardiff University, Wales, UK	2019-
Researcher Earth Research Institute, University of California Santa Barbara, USA	2017-
PREVIOUS APPOINTMENTS	
Reader School of Earth and Environmental Sciences, Cardiff University, Wales, UK	2020-2021
Senior Lecturer School of Earth and Environmental Sciences, Cardiff University, Wales, UK	2017-2020
Lecturer School of Earth and Environmental Sciences, University of St Andrews, Scotland, UK	2007-2017
Associate Researcher Earth Research Institute, University of California Santa Barbara, USA	2013-2017
Assistant Researcher Earth Research Institute, University of California Santa Barbara, USA	2003-2013
National Research Council Research Associate (Postdoc), United States National Academy of Sciences	2005-2007

• Conducted research on the Sacramento Valley (Supervisor: Edmund Andrews) National Research Program, United States Geological Survey, Menlo Park.

PEER REVIEWED PUBLICATIONS

https://singer.eri.ucsb.edu/publications/

Advisee student and postdoc work denoted by *. Journal is listed for invited revision. In prep papers will be submitted soon.

- 73. *Asfaw, D.T., **Singer, M.B.**, *MacLeod, D.A., Rosolem, R., Cuthbert, M.O., *Rios Gaona, M.F., Michaelides, K..; Multidecadal trends in aridity and drought across Africa
- Michaelides, K..; Multidecadal trends in aridity and drought across Africa In Prep. 72. Washburn, S.J., **Singer, M.B.**, Harrison, L., Hass, L., Clarke, J., Tsui, M.T.K., Blum, J.D.,
- *Myktyn, T., Gabet, E., Ulus, Y.; Spatial variation in inundation frequency and duration and Hg dynamics in a large, fluvial wetland

In Prep.

71. *Kui, L., *Williams, J., **Singer, M.B.**, Stella, J.C., *Kibler, C.L., Dawson, T.E., *Rohde, M.M., Lambert, A.M., Roberts, D.A.; Increased groundwater dependence of riparian vegetation in response to atmospheric drought conditions

In Prep.

70. *Williams, J., Stella, J.C., **Singer, M.B.**, Lambert, A.M., Voelker, S.L., Drake, J.E., Friedman, J.M., Pelletier, L., Kui, L., Roberts, D.A. (In Review); Seasonal and species-level water-use strategies and groundwater dependence in dryland riparian woodlands during extreme drought

In Review

69. *Rios Gaona, M.F., **Singer, M.B.**, *Asfaw, D.T., Michaelides, K. (In Review); STORM v.2: A simple, stochastic decision-support tool for exploring the impacts of climate, and climate change at, and near the land surface in gauged watersheds

In Review

68. Grieve, S.W.D., **Singer, M.B.**, *Chen, S-A., Michaelides, K. (In Review), GDBM: A database of global drainage basin morphology

In Review

- 67. *Kibler, C.L., Trugman, A.T., Roberts, D.A., Still, C.J., Scott, R.L., Caylor, K.K., Stella, J.C., Singer, M.B. (In Review); Evapotranspiration regulates leaf temperature and respiration in dryland vegetation
- 66. *Quichimbo, E.A., **Singer, M.B.**, Michaelides, K., Rosolem, R., *MacLeod, D.A., *Asfaw, D.T., Cuthbert, M.O.; Assessing the sensitivity of modelled water partitioning to global precipitation datasets in a data-scarce dryland region

In Review

65. **Singer, M.B.**, Grieve, S.W.D., *Chen, S-A, Michaelides, K. (In Revision); Climatic controls on the length and shape of the world's drainage basins

In Revision

64. *Kipkemoi, I., Michaelides, K., Rosolem, R., Singer, M.B. (In Revision); Climatic expression of rainfall on soil moisture dynamics in drylands

In Revision

63. *Salwey, S., Coxon, G., Pianosi, F., **Singer, M.B.**, Hutton, C. (2023); National-scale detection of reservoir impacts through hydrological signatures, *Water Resources Research*, 59(5), e2022WR033893, doi:10.1029/2022WR033893. pdf

2023

62. *Koppa, A., *Keune, J., *MacLeod, D.A., **Singer, M.B.**, Nietod, R., Gimeno, L., Michaelides, K., Rosolem, R., Otieno, G., Tadege, A., Miralles, D.G. (2023); A Lagrangian analysis of the sources of rainfall over the Horn of Africa Drylands, *Journal of Geophysical Research-Atmospheres*, 128(12), e2022JD038408, doi:10.1029/2022JD038408. pdf

2023

61. *Warter, M., **Singer, M.B.**, Roberts, D.A., Cuthbert, M.O., *Sabathier, R., Stella, J.C., Caylor, K. (2023); Modeling seasonal vegetation phenology from hydroclimatic drivers for contrasting plant functional groups within drylands of the Southwestern USA, *Environmental Research: Ecology*, doi:10.1088/2752-664X/acb9a0. pdf

2023

60. *MacLeod, D.A., *Quichimbo, E.A., Michaelides, K., *Asfaw, D.T., Rosolem, R., Cuthbert, M.O.,

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Otenyo, E., Segele, Z., *Rigby, J.M., Otieno, G., Hassaballah, K., Tadege, A., Singer, M.B. (2023); Translating seasonal climate forecasts into water balance forecasts for decision making, <i>PLOS Climate</i> , 2(3):e0000138, doi: 10.1371/journal.pclm.0000138. pdf	2023
59. *Asfaw, D.T., Singer, M.B. , Rosolem, R., Cuthbert, M.O., *Quichimbo, E.A., *MacLeod, D.A., *Rios Gaona, M.F., Michaelides, K. (2023); StoPET v1.0: A stochastic potential evapotranspiration generator for simulation of climate change impacts, <i>Geoscientific Model Development</i> , 16(2), 557-571. doi:10.5194/gmd-16-557-2023. pdf	2023
58. Michaelides, K., *Chen, S-A., Grieve, S.W.D., Singer, M.B. ; Reply to: Climate versus tectonics as controls on river profile, <i>Nature</i> , 612(7941), E15-E17. doi:1038/s41586-022-05419-0. pdf	2022
57. Deman, V.M.H., Koppa, A., Waegeman, W., *MacLeod, D.A., Singer, M.B. , Miralles, D.G.; Seasonal prediction of Horn of Africa long rains using machine learning: The pitfalls of preselecting correlated predictors, <i>Frontiers in Water</i> , 4, doi:10.3389/frwa.2022.1053020. pdf	2022
56. *Sabathier, R., Singer, M.B. , Roberts, D.A., Caylor, K., Stella, J.C., Jaeger, K.L., Olden, J.D.; High-resolution spatiotemporal patterns of flow at the landscape scale in montane non-perennial streams, <i>River Research and Applications</i> , doi: 10.1002/rra.4076. pdf	2022
55. *Chen, S-A., Michaelides, K., Richards, D., Singer, M.B. ; Exploring exogenous controls on short- versus long-term erosion rates globally, <i>Earth Surface Dynamics</i> , 10, 1055–1078, doi:10.5194/esurf-10-1055-2022. pdf	2022
54. *Adloff, M., Singer, M.B. , *MacLeod, D.A., Michaelides, K., *Mehrnegar, N., Hansford, E., Funk, C., Mitchell, D.; Sustained water storage in East African drylands dominated by seasonal rainfall extremes, <i>Geophysical Research Letters</i> , 49(21):e2022GL099299, doi:10.1029/2022GL099299. pdf	2022
53. *Williams, J., Stella, J.C., Voelker, S., Lambert, A, Drake, J.E. Pelletier, L., Friedman, J., Roberts, D., Singer, M.B. ; Local groundwater decline conditions response of dryland riparian woodlands to climatic drought, <i>Global Change Biology</i> , 28(22):6771-6788, doi:10.1111/gcb.16376. pdf	2022
52. *Rigby, J.M., Yohannis, A., Preist, C., Singer, M.B. , Waema, T., Wausi, A., Schien, D., Michaelides, K.; Climate services for the Greater Horn of Africa: Interviews exploring practitioner perspectives from Kenya and beyond, <i>Climate and Development</i> , doi:10.1080/17565529.2022.2074350. pdf	2022
51. *Quichimbo, E.A., Singer, M.B. , Michaelides, K., Hobley, D., Rosolem, R., Cuthbert, M.O.; DRYP 1.0: A parsimonious hydrological model of DRYland Partitioning of the water balance, <i>Geoscientific Model Development</i> , doi: 10.5194/gmd-14-6893-2021. pdf	2021
50. *Kibler, C., Schmidt, C., Roberts, D.A., Stella, J.C., Lambert, A., *Kui, L., Singer, M.B. ; A brown wave of riparian woodland mortality following groundwater declines during the 2012-2019 California drought, <i>Environmental Research Letters</i> , 16(8):084030, doi:10.1088/1748-9326/ac1377. pdf	2021
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48. *Sargeant, C.I., Singer, M.B. ; Local and non-local controls on seasonal variations in water availability and use by riparian trees along a hydroclimatic gradient, <i>Environmental Research Letters</i> , 16(8):084018, doi:10.1088/1748-9326/ac1294. pdf	2021
47. *Rhode, M., Stella, J., Roberts, D., Singer, M.B. ; Groundwater dependence of riparian woodlands and the disrupting effect of anthropogenically altered streamflow, <i>Proceedings of the National Academy of Sciences (PNAS)</i> , 118(25), e2026453118, doi:10.1073/pnas.2026453118. pdf	2021
46. *Sabathier, R., Singer, M.B. , Roberts, D., Caylor, K., Stella, J.; Vegetation response to climatic and geologic controls on water availability in the Southwest USA, <i>Environmental Research Letters</i> , 16:064029, doi:10.1088/1748-9326/abfe8c. pdf	2021

45. *Warter, M., Singer, M.B. , Roberts, D., Cuthbert, M.O., *Sabathier, R., Stella, J., Caylor, K.; Onset and propagation of drought into soil moisture and vegetation responses during the 2012-2019 drought in Southern California, <i>Hydrology and Earth System Science (HESS)</i> , 25(6), 3713-3729, doi:10.5194/hess-25-3713-2021. pdf	2021
44. *Mehrnegar, N., Jones, O., Singer, M.B. , Schumacher, M., Jagdhuberd, T., Scanlon, B.R., Forootan, E.; Exploring groundwater and soil water storage changes across the CONUS at 12.5-km resolution by a Bayesian integration of GRACE data into W3RA, <i>Science of the Total Environment</i> , doi:10.1016/j.scitotenv.2020.143579. pdf	2021
43. *Mayes, M., Caylor, K., Singer, M.B. , Stella, J., Roberts, D., Nagler, P.; Climate sensitivity of water use by riparian woodlands at landscape scales, <i>Hydrological Processes</i> , 34, 4884-4903, doi:10.1002/hyp.13942. pdf	2020
42. *Quichimbo, A., Singer, M.B. , Cuthbert, M.O.; Characterizing groundwater-surface water interactions in idealized ephemeral stream systems, <i>Hydrological Processes</i> , doi:10.1002/hyp.13847. pdf	2020
41. *Mehrnegar, N., Jones, O., Singer, M.B. , Schumacher, M., Bates, P., Forootan, E.; Comparing global hydrological models and combining them with GRACE by dynamic model data averaging (DMDA), <i>Advances in Water Resources</i> , doi:10.1016/j.advwatres.2020.103528. pdf	2020
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39. *Chen, S-A., Michaelides, K., Grieve, S.W.D., Singer, M.B. ; Aridity is expressed in river topography profiles globally, <i>Nature</i> , 573: 573–577, doi:10.1038/s41586-019-1558-8. pdf	2019
38. Washburn, S.J., Blum, J.D., Donovan, P.M., Singer, M.B. ; Isotopic evidence of methyl- and inorganic mercury photoreduction and retention on particles in surface waters of Central California, USA, <i>Science of the Total Environment</i> , 674: 451-461, doi:10.1016/j.scitotenv.2019.04.145. pdf	2019
37. *Nakamura T., Singer M.B. , Gabet E. Remains of the 19th Century: Deep storage of contaminated hydraulic mining sediment along the Lower Yuba River, California, <i>Elementa: Science of the Anthropocene</i> , 6(1), doi: 10.1525/elementa.333. pdf	2018
36. Singer, M.B. , Michaelides, K., Hobley, D.E.J.; STORM 1.0: A simple, flexible, and parsimonious stochastic rainfall generator for simulating climate and climate change, <i>Geoscientific Model Development</i> , 11, 3713-3726, doi: 10.5194/gmd-11-3713-2018. pdf	2018
35. Phillips, C.B., Hill, K.M., Paola, C., Singer, M.B. , Jerolmack, D.J.; Effect of flood hydrograph duration, magnitude, and shape on bed-load transport dynamics, <i>Geophysical Research Letters</i> , 45, 8264-8271, doi: 10.1029/2018GL078976. pdf This paper was selected as an <u>AGU Editor's Highlight</u> .	2018
34. Michaelides, K., *Hollings, R., Singer, M.B. , Nichols, M., Nearing, M.; Spatial and temporal analysis of hillslope-channel coupling and implications for the longitudinal profile in a dryland basin, <i>Earth Surface Processes and Landforms</i> , 43: 1608–1621, doi: 10.1002/esp.4340. pdf	2018
33. *Evans, C., Dritschel, D., Singer, M.B. ; Modelling subsurface hydrology in floodplains, <i>Water Resources Research</i> , 54, 1428-1459, doi: 10.1002/2017WR020827. pdf	2018
32. Singer, M.B. , Michaelides, K.; Deciphering the expression of climate change within the Lower Colorado River basin by stochastic simulation of convective rainfall, <i>Environmental Research Letters</i> , 12:104011, doi: 10.1088/1748-9326/aa8e50. pdf	2017
31. Jaeger, K., Sutfin, N.A., Tooth, S., Michaelides, K., Singer, M.B. ; Geomorphology and sediment regimes of intermittent rivers and ephemeral streams; in Datry, T., Bonada, N., Boulton, A. (eds.), <i>Intermittent Rivers and Ephemeral Streams</i> , pp.21-49, Academic Press, Burlington,	
doi: 10.1016/B978-0-12-803835-2.00002-4. <u>pdf</u>	2017

30. Donovan, P.M., Blum, J.D., Singer, M.B. , Marvin-DiPasquale, M., Tsui, M.T.K.; Methylmercury degradation and exposure pathways in streams and wetlands impacted by historical mining, <i>Science of the Total Environment</i> , 568: 1192-1203, doi: 10.1016/j.scitotenv.2016.04.139. pdf	2016
29. Singer, M.B. , Harrison, L.R., Donovan, P.M., Blum, J.D., Marvin-DiPasquale, M.; Hydrologic indicators of hot spots and hot moments of mercury methylation potential along river corridors, <i>Science of the Total Environment</i> , 568: 697-711doi: 10.1016/j.scitotenv.2016.03.005. pdf	2016
28. Donovan, P.M., Blum, J.D., Singer, M.B. , Marvin-DiPasquale, M., Tsui, M.T.K.; Isotopic composition of inorganic and methylmercury downstream of historical gold mining, <i>Environmental Science and Technology</i> , 50(4):1691–1702, doi: 10.1021/acs.est.5b04413. pdf	2016
27. *Sargeant, C.S., Singer, M.B. ; Sub-annual variability in historical water source use by Mediterranean riparian trees, <i>Ecohydrology</i> , 9, 1328-1345, doi: 10.1002/eco.1730. pdf This paper received the <u>Ignacio Rodriguez-Iturbe Publication Award</u> commending the Best Publication in Ecohydrology for 2016.	2016
26. *Higson, J.L., Singer, M.B. ; The impact of streamflow hydrographs on sediment supply from terrace erosion, <i>Geomorphology</i> , 248:475-488, doi: 10.1016/j.geomorph.2015.07.037. pdf This paper was the 6th most downloaded article in <i>Geomorphology</i> from Sep to Dec 2015.	2015
25. Singer, M.B. ; Impact scales of fluvial response to management along the Sacramento River, California, USA: Transience versus persistence, in Hudson, P.F. & H. Middlekoop (eds.), <i>Geomorphic Approaches to Integrated Floodplain Management of Lowland Fluvial Systems in North America and Europe</i> , pp. 53-85, Springer New York, doi: 10.1007/978-1-4939-2380-9_4. pdf	2015
24. *Slater, L.J., Singer, M.B. , Kirchner, J.W.; Hydrologic versus geomorphic drivers of trends in flood hazard. <i>Geophysical Research Letters</i> , 42, 370-376, doi: 10.1002/2014GL062482. pdf <i>This paper has received media attention</i> . It was also selected as an <u>AGUniverse Publication Highlight (9 April, Volume 6, Issue 7, 2015)</u> .	2015
23. Singer, M.B. , Michaelides, K.; How is topographic simplicity maintained in ephemeral, dryland channels?, <i>Geology</i> , 42(12):1091-1094, doi:10.1130/G36267.1. pdf This paper has received media attention.	2014
22. Singer, M.B. , *Sargeant, C., Piégay, H., Riquier, J., Wilson, R.J.S., *Evans, C.M.; Floodplain ecohydrology: Climatic, anthropogenic, and local physical controls on partitioning of water sources to riparian trees, <i>Water Resources Research</i> , 50(5): 4490-4513, doi:10.1002/2014WR015581. pdf	2014
21. Michaelides, K., Singer, M.B. ; Impact of coarse sediment supply from hillslopes to the channel in runoff-dominated, dryland fluvial systems, <i>Journal of Geophysical Research-Earth Surface</i> , 119(6), doi:10.1002/2013JF002959. pdf This paper was selected as an <u>EOS Research Spotlight</u> .	2014
20. Singer, M.B. , Aalto, R., James, L.A., *Kilham, N.E., *Higson, J.L., Ghoshal, S.; Enduring legacy of toxic fans via episodic redistribution of California gold mining debris. <i>Proceedings of the National Academy of Sciences (PNAS)</i> , 110(46): 18436-18441, doi:10.1073/pnas.1302295110. pdf <i>This paper has received media attention</i> .	2013
19. *Slater, L.J., Singer, M.B. ; The imprint of climate and climate change in alluvial riverbeds: Continental USA, 1950-2011. <i>Geology</i> , 41(5):595-598, doi:10.1130/g34070.1. pdf This paper won a prize for the best student-led peer-reviewed journal article for 2013 within the Landscape Dynamics Theme of the Scottish Alliance for Geosciences, Society, and the Environment (SAGES).	2013
18. Donovan, P.M, Blum, J.D., Yee, D., Gehrke, G.E., Singer, M.B. ; An isotopic record of mercury in San Francisco Bay sediment. <i>Chemical Geology</i> , 349–350:87-98, doi:10.1016/j.chemgeo.2013.04.017. pdf	2013
17. Singer, M.B. , Stella, J.C., Dufour, S., Piegay, H., Wilson, R.J.S., *Johnstone, L.; Contrasting water-uptake and growth responses to drought in co-occurring riparian tree species. <i>Ecohydrology</i> ,	

	6(3):402-412, doi:10.1002/eco.1283. pdf	2013
	6. *Kilham, N.E., Roberts, D., Singer, M.B. ; Remote sensing of suspended sediment concentration during turbid flood conditions on the Feather River, California—a modeling approach. *Water Resources Research*, 48, W01521, doi:10.1029/2011WR010391. pdf	2012
	5. *Springborn, M., Singer, M.B. , Dunne, T.; Sediment-adsorbed total mercury flux through Yolo Bypass, the primary floodway and wetland in the Sacramento Valley, California. <i>Science of the Total Environment</i> , 412-413: 203-213, doi:10.1016/j.scitotenv.2011.10.004. pdf	2011
14	4. Singer, M.B. ; Transient response in longitudinal grain size to reduced gravel supply in a large river. <i>Geophysical Research Letters</i> , 37, L18403, doi:10.1029/2010GL044381. pdf	2010
	3. *Ghoshal, S., James, L.A., Singer, M.B. , Aalto, R.; Channel and floodplain change analysis over a 100-year period: Lower Yuba River, California. <i>Remote Sensing</i> , 2(7):1797-1825, doi:10.3390/rs2071797. pdf	2010
	2. Dunne, T., Constantine, J.A., Singer, M.B. ; The role of sediment transport and sediment supply in the evolution of river channel and floodplain complexity. *Transactions, Japanese Geomorphological Union, 31(2):155-170. pdf	2010
	1. James, L.A., Singer, M.B. , *Ghoshal, S., Megison, M.; Historical channel changes in the lower Yuba and Feather Rivers, California: Long-term effects of contrasting river-management strategies. <i>Geological Society of America Special Paper</i> , 451:57-81, doi:10.1130/2008.2451(04). pdf	2009
	D. Singer, M.B., Aalto, R.; Floodplain development in an engineered setting. Earth Surface Processes and Landforms, 34(2):291-304, doi:10.1002/esp.1725. pdf	2009
	Singer, M.B. ; Downstream patterns of bed-material grain size in a large, lowland alluvial river subject to low sediment supply. <i>Water Resources Research (Rapid Communication)</i> , 44, W12202, doi:10.1029/2008WR007183. pdf	2008
	Singer, M.B. ; A new sampler for extracting bed material sediment from sand and gravel beds in navigable rivers. <i>Earth Surface Processes and Landforms</i> , 33(14):2277-2284, doi:10.1002/esp.1661. pdf	2008
	Singer, M.B. , R. Aalto, James, L.A.; Status of the lower Sacramento Valley flood-control system within the context of its natural geomorphic setting. <i>Natural Hazards Review</i> , 9(3):104-115, doi:10.1061/(ASCE)1527-6988(2008)9:3(104). pdf	2008
6.	James, L.A., Singer, M.B. ; Development of the lower Sacramento Valley flood-control system: An historical perspective. <i>Natural Hazards Review</i> , 9(3):125-135, doi:10.1061/(ASCE)1527-6988(2008)9:3(125). pdf	2008
	Singer, M.B. ; Influence of major dams on hydrology through the drainage network of the Sacramento Valley, California. <i>River Research and Applications</i> , 23(1):55-72, doi:10.1002/rra.968. pdf	2007
	Singer, M.B. , Dunne, T.; Modeling the influence of river rehabilitation scenarios on bed material sediment flux in a large river over decadal timescales. <i>Water Resources Research</i> , 42, W12415, doi:10.1029/2006WR004894. pdf	2006
	Singer, M.B. , Dunne, T.; An empirical-stochastic, event-based program for simulating inflow from a tributary network: Framework and application to the Sacramento River basin, California. <i>Water Resources Research</i> , 40, W07506, doi:10.1029/2003WR002725. pdf	2004
	Singer, M.B. , Dunne, T.; Modeling decadal bed-material sediment flux based on stochastic hydrology. <i>Water Resources Research</i> , 40, W03302, doi:10.1029/2003WR002723. pdf	2004
	Singer, M.B. , Dunne, T.; Identifying eroding and depositional reaches of valley by analysis of suspended-sediment transport in the Sacramento River, California. <i>Water Resources Research</i> , 37(12):3371-3382, doi:10.1029/2001WR000457. pdf	2001

INVITED BOOK CHAPTERS

Singer, M.B. ; Ecohydrology in floodplains and riparian zones, in Wilcox, B.P., Asbjornsen, H., Smettem, K., Creed, I. (eds.), <i>Handbook of Terrestrial Ecohydrology</i> , Routledge.	In Prep.
Singer, M.B.; Impact scales of fluvial response to management along the Sacramento River, California, USA: Transience versus persistence, in Hudson, P.F. & H. Middlekoop (eds.), Geomorphic Approaches to Integrated Floodplain Management of Lowland Fluvial Systems in North America and Europe, pp. 53-85, Springer New York, doi: 10.1007/978-1-4939-2380-9_4.	2015
Jaeger, K., Sutfin, N.A., Tooth, S., Michaelides, K., Singer, M.B. ; Geomorphology and sediment regimes of intermittent rivers and ephemeral streams; in Datry, T., Bonada, N., Boulton, A. (eds.), <i>Intermittent Rivers and Ephemeral Streams</i> , pp. 21-49, Academic Press, Burlington, doi: 10.1016/B978-0-12-803835-2.00002-4.	2017
NON-PEER REVIEWED CONTRIBUTIONS	
Singer, M.B., Michaelides, K., Adloff, M. ; The Horn of Africa has had years of drought, yet groundwater supplies are increasing – why?, http://bitly.ws/w757 , The Conversation	2022
Singer, M.B. ; How understanding regional rainstorms will help the world manage climate change, http://bit.ly/2yWv9d4 , <i>The Conversation</i>	2017
Singer, M.B.; Book Review of 'Erosion and Sedimentation' by P.Y. Julien, Geological Magazine	2011
*Tena, A, Singer, M.B. , Batalla, R.J.; El uso de FLUVIAL-12 para el resideño y la evaluación de crecidas de mantenimiento en el bajo Ebro, in Ubeda, X., Vericat, D., Batalla, R.J. (eds.), <i>Avances de la Geomorfologia de España</i> , p. 289-292.	2010
James, L.A., Singer, M.B. , Aalto, R.; Field trip guide and road log: Tracking hydraulic mining sediment in the Sierra Foothills and Sacramento Valley. Proceedings of the American Association of Geographers Annual Meeting	2007
Singer, M. ; Modeling Spatial and Temporal Patterns in Flow and Sediment Transport and Storage in Large, Lowland Rivers. PhD Dissertation, <i>University of California Santa Barbara</i>	2003

CURRENT AND PAST TEACHING

Professor, Cardiff University.

2017-

Current Teaching

- BIT058: 'Frontiers in Water Science', ~10 students, MSc, 4 × 1-hr lectures, 1 × 2-hr practicals.
- EAT301: 'Research Dissertation-Water in a Changing World', ~10 students, MSc, Coordinator.
- EA3319: 'Environmental Geomorphology, ~75 students, BSc, 5 × 2-hr lectures.
- EA2307: 'Hydrologic Cycle-Residential Field Course (Kos, Greece)', ~50 students, Year 2, 7 residential field days.
- EAT109: 'Water in the Environment', ~15 students, MSc, 11 × 2-hr lectures/4 × 3-hr practicals.
- EAT117: 'Water in the Geological Environment', ~30 students, MSc, 3 × 1-hr lectures.

Past Teaching

- EA1202: 'Snowdonia Residential Field Course, ~40 students, BSc, 6 days.
- EA2219: 'Hydrologic Cycle-Residential Field Course (SE France)', ~50 students, Year 2, 5 residential field days.
- EA2219: 'Water in the Environment', ~50 students, Year 2, 9 × 2-hr lectures/3 × 3-hr practicals.
- EA3317: 'Hazards, Risk, and Resilience', ~100 students, BSc, 3 × 1-hr lectures, 2 × 2-hr practicals.

Lecturer, University of St Andrews.

2007-2017

Past Teaching

- ES1002: 'Hydrologic Cycle', ~100 students, Year 1, 5 × 1-hr lectures/2 × 4-hr practical.
- ES2003: 'Water, Mines, and Contamination', ~35 students, Year 2, 2 × 1-hr lectures/1 × 4-hr practical.
- ES1001: 'Earth Surface Processes', ~100 students, Year 1, 5 × 1-hr lectures.
- ES5011: Water in the Environment', ~10-20 students, Years 3, 4, & 5, 10×2 -hr lectures / 4×3 -hr practicals.
- ES3004: 'Processes and Products in Sedimentary Systems', ~20-40 students, Years 3 & 4, 6 × 1-hr lectures.
- ES2003: 'Field Class', ~35 students, Year 2, 6-day residential trip to Rio Tinto, Spain.
- GG4298/ES4297: Ongoing advising and marking of undergraduate student theses (2-3 per year).
- ES4002: Ongoing advising and marking of review essays (2-3 per year).
- ES2901: 'Water Driven Earth Surface Processes', ~25 adult (evening degree) students, 2 × 3-hr lectures.
- ES4008: 'Isotope hydrology of the Rhône Basin, France', Field Class, ~10 students, Year 4, 6-day residential trip.
- EG3021/EG3032: 'Contemporary Environmental Problems: Applications and Solutions', ~20-40 students, Years 3 & 4, 4 × 2 hr lectures / 2 × 3 hr practicals.
- ES3005/GG3201: 'Methods of Measurement/Topog., ~30 students, Year 3, 2 × 2-hr lectures/1 × 4-hr practical.
- GG3095/GG3266: 'Rivers and Floodplains', ~20-40 students, Year 3 & 4, 10×2 -hr lectures/1 \times 4-hr practical.
- GG2001: 'Regional Geography of the Himalaya', ~70-120 students, Year 2, 9 × 1-hr lectures/1 × 4-hr practical.
- GG2002: 'Catchments and Drainage Basins', ~80-120 students, 4 × 1-hr lectures.
- GG3201: 'Advanced Topics in Physical Geography (Numerical Modeling)', ~5 students, Year 4, 2 × 4-hr practical.
- GG4204: 'Advanced Debates (Fracking)', ~35 students, Year 4, 1 × 4-hr practical.
- GG3201: 'Data Analysis Case Study: Hubbard Brook', ~25 students, Year 3, 3 × 2-hr lectures/1 × 4-hr practical.

INVITED PRESENTATIONS

World Meteorological Organization Side Event, COP27	Sharm el Sheik, Egypt	2022
European Union Side Event, COP27	Sharm el Sheik, Egypt	2022
Climate Hazards Center, UC Santa Barbara	Santa Barbara, USA	2022
Limmud Bristol Southwest Festival	Bristol, UK	2022
AU-EU-UK Research Collaborations: Emerging Opportunities (virtual)	Cardiff, UK	2021
European Geosciences Union (EGU) Annual Meeting (virtual)	Vienna, Austria	2021
Greater Horn of Africa Climate Outlook Forum-MAM (virtual)	Nairobi, Kenya	2021
Bjerknes Center for Climate Research (virtual)	Bergen, Norway	2020
GW4 Water Security Alliance (virtual)	UK	2020
Keynote, 21st IWA UK Young Water Professionals Conference (virtual)	Cardiff, UK	2020
PWC-Sustainability Division	Oslo, Norway	2019
Institute of Water 2019 Autumn Forum	Cardiff, UK	2019
School of Environmental Science, Simon Fraser University	Burnaby, Canada	2019
Pint of Science	Cardiff, UK	2019
SERDP, US Department of Defense	San Antonio, TX USA	2019
Water Research Institute, Cardiff University	Cardiff, UK	2018
SERDP, US Department of Defense	Washington, DC, USA	2017
Swiss Federal Institute of Technology ETH	Zürich, Switzerland	2017
Swiss Federal Institute for Forest, Snow and Landscape Research WSL	Birmensdorf, Switzerland	2017
School of Engineering and Geosciences, Newcastle University	Newcastle, UK	2017
School of Earth and Ocean Sciences, Cardiff University	Cardiff, UK	2016
Department of Earth & Environmental Sciences, University of Michigan	Ann Arbor, MI	2016
Department of Geography, Simon Fraser University	Burnaby, Canada	2016
Department of Geography and Environment, Southampton University	Southampton, UK	2016
Department of Geography, Loughborough University	Loughborough, UK	2016
École Normale Supérieure de Lyon	Lyon, France	2015
St Anthony Falls Laboratory, University of Minnesota	Minneapolis, MN	2015
IRSTEA, Université Claude Bernard Lyon 1	Lyon, France	2015
ISRivers Conference Workshop on River Science and Management	Lyon, France	2015
Keynote, 'Reclaiming the Sierra 2015: The New Gold Rush'	Sacramento, CA	2015
Rhône-Sacramento River Management Workshop	Berkeley, CA	2014
American Geophysical Union Fall Meeting	San Francisco, CA	2014

Department of Environmental Sciences, University of California Riverside	Riverside, CA	2014
Department of Geosciences, University of Massachusetts Amherst	Amherst, MA	2014
Postgraduate Society, University of St Andrews	St Andrews, UK	2013
CEREGE, Université Aix-Marseilles	Aix-en-Provence, France	2013
Geological and Planetary Sciences, Caltech	Pasadena, CA	2013
School of Geographical and Earth Sciences, University of Glasgow	Glasgow, UK	2013
School of Geosciences, University of Edinburgh	Edinburgh, UK	2012
Department of Civil Engineering, University of Bristol	Bristol, UK	2012
New Mexico Institute of Mining and Technology	Socorro, NM	2012
Geography Society, University of Durham	Durham, UK	2011
United States Geological Survey	Menlo Park, CA	2011
Keynote, 4th International Seminar on Small Catchments Dynamics	Israel	2010
School of Geography, University of Edinburgh	Edinburgh, UK	2010
Department of Geography, University of Durham	Durham, UK	2009
School of Geographical Sciences, University of Bristol	Bristol, UK	2008
Department of Environment and Soil Sciences, University of Lleida	Lleida, Spain	2008
Department of Geography, University of Exeter	Exeter, UK	2008
United States Geological Survey/Sacramento State University	Sacramento, CA	2007
Department of Geography, University of Glasgow	Glasgow, Scotland	2007
Dept. of Land, Air, and Water Resources, University of California Davis	Davis, CA	2005

GRANTS

Total Equivalent Funds Awarded to Date > US\$13M or £10.0M (grant proposals in preparation not listed)

ALIGN: Alignment of Tailored Climate Services, Communication, and Decision Support to Build Climate Resilience in the Horn of Africa Drylands.

European Union's Horizon Europe (Research and Innovation Actions) Program

• M. Singer (PI) leads large interdisciplinary team from Cardiff, Bristol, KMD, SMoEWR, EMI, WMO, UEA, ICPAC, Climate Analytics, BBC Media Action, Univ. Nairobi, OSSREA

In Review

Generalizing plant functional responses to drought stress in the Southwest USA.

Strategic Environmental Research and Development Program, US Department of Defense

• Funded: \$178,284; M. Singer (PI), D. Roberts, K. Caylor, J. Stella.

2022

Somali Language MOOC to Train Journalists to Report on Climate-Related Content in the Horn of Africa Drylands

Cardiff Univ Innovation for All (Welsh Government Scheme)

• Funded: £25,000; M. Singer (PI), L. Morris, M. Cuthbert, A. Quichimbo

2021

Impacts of dynamic, climate-driven water availability on tree water use and stress.

School of Integrated Watershed Sciences H2O'Lyon (France)

• Funded: €60,000; M. Singer, H. Piegay, J. Stella, K. Caylor.

2020

Assessing riparian forest water sources in the Santa Clara River basin (Part 3).

The Nature Conservancy

• Funded: \$43,000; M. Singer (PI), J. Stella, L. Kui

2020

DOWN2EARTH: Translation of climate information into land-based climate services for social adaptation, policy development, and overall resilience to water scarcity in East African drylands.

European Union's Horizon 2020 (Research and Innovation Actions) Program

• Funded: €6,645,663.50; M. Singer (PI) leads large interdisciplinary team from Cardiff, Bristol, VU Amsterdam, East Anglia, Ghent, Hohenheim, ICPAC, SWALIM, Action Aid, Climate Analytics, BBC Media Action, Transparency Solutions, Univ. Nairobi, Addis Ababa Univ.

2020

Mobile phone App Development for Drought Adaptation in Drylands (MADDAD).

UKRI Global Challenges Research Fund (GCRF)

• Funded: £300,000; K. Michaelides, C. Preist, D. Schien, R. Rosolem, D. Mitchell, M. Singer (co-PI), M. Cuthbert, T. Waema, A. Wausi

2019

Assessing riparian forest water sources in the Santa Clara River basin (Part 2). The Nature Conservancy • Funded: \$37,300; M. Singer (PI), J. Stella	2019
Cardiff University-Somaliland Research Collaboration — Network and Scoping Project Global Challenges Research Fund (GCRF)-Institutional Grant • Funded: £10,000; R. Gale, J. Pickett, M. Singer (co-PI).	2019
Drought Resilience In East African dryland Regions (DRIER). The Royal Society • Funded: £497,500; K. Michaelides, M. Singer (co-PI), M. Cuthbert, D. Mitchell, R. Rosolem.	2019
Impacts of Climate Change on the Water Balance in East African Drylands. Global Challenges Research Fund (GCRF)-Institutional Grant • Funded: £43,610; K. Michaelides, M. Singer (co-PI), M. Cuthbert, D. Mitchell, R. Rosolem, D. Hobley.	2018
Water availability to riparian forests under a changing climate. Cardiff Undergraduate Research Opportunities Programme (CUROP) • Funded: £2,100; M. Singer (PI).	2018
Groundwater sustainability in Namibia. Global Challenges Research Fellowship • Funded: £19,460; M. Cuthbert, M. Singer (co-PI).	2018
Drought Risk in East African Drylands (DREAD). Global Challenges Research Fund (GCRF)-Institutional Grant • Funded: £35,000; D. Mitchell, K. Michaelides, M. Singer (co-PI).	2018
Understanding and assessing riparian habitat vulnerability to drought-prone climate regimes on Department of Defense bases in the Southwestern USA. Strategic Environmental Research and Development Program, US Department of Defense • Funded: \$1,704,236; M. Singer (PI), D. Roberts, K. Caylor, J. Stella.	2018-2022
Assessing riparian forest water sources in the Santa Clara River basin (Part 1). The Nature Conservancy • Funded: \$31,871; M. Singer (PI), J. Stella	2018
Impacts of dynamic, climate-driven water availability on tree water use and health in Mediterranean riparian forests. National Science Foundation (Hydrologic Sciences) • Funded: \$450,366; M. Singer (PI), J. Stella, K. Caylor.	2017-2020
Linking basin-scale, stand-level, and individual tree water stress indicators for groundwater-dependent riparian forests in multiple-use river basins. National Science Foundation (Geography and Spatial Sciences) • Funded: \$449,982 (\$302,235 to UCSB); J. Stella, M. Singer (UCSB PI), D. Roberts.	2017-2020
Seasonal variations in water availability to riparian trees. Observatoire Hommes/Milieux, Vallée du Rhône (France) • Funded: €5,000; M. Singer.	2016
Revealing the impacts of climate on riparian forest water availability and water use through tree-ring $\delta^{18}O$ and $\delta^{13}C$. Natural Environment Research Council Facilities Grant (Stable Isotope Facility, NIGL) • Funded: £72,000 (in-kind support for data generation); M. Singer.	2015
Detecting subannual climatic fluctuations in water availability through tree ring isotopes. Observatoire Hommes/Milieux, Vallée du Rhône (France) • Funded: €5,000; M. Singer.	2015
Early Career Research Exchange Scheme-Tree Ring Isotope Research in France.	

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Scottish Alliance for the Geosciences, Environment, and Society (SAGES)

• Funded: £3,300; M. Singer.	2014
How do climatic fluctuations affect water availability to and water use by riparian trees? The Carnegie Trust for the Universities of Scotland • Funded: £2,480; M. Singer.	2014
Mercury and sediment research within river corridors. REG Trust • Funded: \$15,000; M. Singer.	2014
Modeling climate, topography, and substrate controls on water partitioning in river floodplains. Natural Environment Research Council Doctoral Training Grant • Funded: £70,327 (over 3.5 years); PhD Student: C. Evans; Principal Supervisor: M. Singer.	2013-2017
Isotopes in floodplain forests along the Rhône corridor. Region du Rhône-Alps (France) • Funded: €5,700; M. Singer.	2013
Impacts of climatic variability and anthropogenic impacts on riparian hydrology and forest dynamics. Observatoire Hommes/Milieux, Vallée du Rhône (France) • Funded: €8,200; M. Singer.	2013
Which water sources are used by trees in riparian corridors? The Carnegie Trust for the Universities of Scotland • Funded: £2,500; M. Singer.	2013
Impacts of climatic variability and anthropogenic impacts on riparian hydrology and forest dynamics: Evidence from isotopes in floodplain vadose and phreatic zones in the Rhône corridor. Observatoire Hommes/Milieux, Vallée du Rhône (France) • Funded: €6,000; M. Singer.	2013
Establishing process links between streamflow, sediment transport/storage, and biogeochemical processing of	
 WS National Science Foundation (EAR-Geomorphology and Land Use Dynamics). Funded: \$189,162; M. Singer (PI), J.D. Blum, M. Marvin-DiPasquale. 	2013-2016
The signature of drought in river corridors. Natural Environment Research Council Doctoral Training Grant • Funded: £70,327 (over 3.5 years); PhD Student: C. Sargeant; Principal Supervisor: M. Singer.	2012-2016
 Impacts of climatic variability and anthropogenic impacts on riparian hydrology and forest dynamics: Evidence from isotopes and tree rings in the Rhône corridor. Observatoire Hommes/Milieux, Vallée du Rhône (France) Funded: €5,000; M. Singer (PI), R. Wilson. 	2012
Collaborative Exchange with Mark Marvin-DiPasquale, USGS, USA. Royal Society of Edinburgh International Exchange Programme • Funded: £2,910; M. Singer.	2011
A hidden record of local hydrologic change in riparian corridors from tree-ring isotopes. The Royal Society • Funded: £12,600; M. Singer.	2011
Where do floodplains begin in fluvial networks? US National Science Foundation (National Center for Airborne Laser Mapping). • Funded: ~\$50,000 (in kind support for LiDAR acquisition and processing); *Slater, L., M. Singer	2011
International Travel Grant, Conference Participation, IAG, Israel. The Royal Society	

• Funded: £2,110; M. Singer.	2010
Where do floodplains begin in fluvial networks? Natural Environment Research Council Doctoral Training Grant • Funded: £67,668 (over 3.5 years); PhD Student: L. Slater; Principal Supervisor: M. Singer.	2010-2014
Collaborative Exchange with Herve Piegay, CNRS, France. Royal Society of Edinburgh International Exchange Programme • Funded: £2,436; M. Singer.	2010
Partitioning modes and rates of sediment flux derived from terrace-channel coupling. Natural Environment Research Council Doctoral Training Grant • Funded: £66,540 (over 3.5 years); PhD Student: J. Higson; Principal Supervisor: M. Singer.	2009-2013
Quaternary history of channel change in the Sacramento Valley. The Carnegie Trust for the Universities of Scotland • Funded: £2,500; M. Singer.	2009
Using mercury as a tracer for tracking erosion/deposition history of hydraulic mining sediments. The Carnegie Trust for the Universities of Scotland • Funded: £2,450; M. Singer.	2008
Sacramento Valley data documentation to support north of Delta off-channel storage project. US Bureau of Reclamation Technical Service Center • Funded: \$35,000; <u>M. Singer (PI)</u> , S. Wright	2006
Sedimentation/contaminant history in floodplains-Lower Danube River, Romania. North Atlantic Treaty Organization (Science for Peace Planning Grant) • Funded: €7,000; M. Singer (PI), R. Aalto, D. Baltenau, S. Teodor, C. Roman.	2006
Sedimentation and contaminant history in the floodplains of the Lower Danube River in Romania. North Atlantic Treaty Organization (Collaborative Linkage Grant Program) • Funded: €25,000; M. Singer (PI), T. Dunne, R. Aalto, D. Baltenau.	2005
Tracking hydraulic mining sediments from the Sierra Piedmont into flood hypasses of the Sacramento Valley, CA. US National Science Foundation (BCS-Geography and Regional Science). • Funded: \$275,000; M. Singer (PI), L.A. James, R. Aalto, T. Dunne.	2005
Developing and validating a flow and sediment transport model for large-scale restoration on the Sacramento River. CALFED Bay-Delta Program . • Funded: \$390,252; T. Dunne, <u>M. Singer</u> .	2002
Hangdewa Landslide Project Danish Embassy, Nepal. • Funded: Rs.97,394; <u>M. Singer</u> .	1995
Juneli Jute Net Project Danish Embassy, Nepal/UK Overseas Development Agency (ODA) • Funded: Rs.2,000,000; M. Singer.	1995

MEDIA COVERAGE OF MY RESEARCH

http://people.eri.ucsb.edu/~bliss/Media Attention.htm

My research has received media attention from major news outlets (see below). Several stories were re-reported by media outlets around the world:

Science, USA Today (front page article in print edition), LA Times, Associated Press, Huffington Post, Der Spiegel, Newsweek, Southern California Public Radio (special in-depth story), CBS Television News-Sacramento (special in-depth TV story), BBC Radio Scotland (live interview). BBC Radio 4-Inside Science (recorded interview). KVMR Radio-Nevada City (recorded interview), PBS-Nova, Science Daily. Inside Science, LiveScience, Science News, EOS Research Spotlight, AGUniverse, Phys.Org, Circa, Science Codex, Global Post, Environmental News Network, Headlines and Global News,

Science World Report, RedOrbit, Nature World News, TheCourier.co.uk, Digital Journal, Smithsonian Magazine, Mining Examiner, GeoBeats, European Virtual Institute for Speciation Analysis, AllGov, Toxicology Student Association, UC Berkeley, Gold Prospectors Association of America, Pacific Sun (Marin, CA), Modern Scientific Issues Blog, Wiki Page for Yuba River, Washington State University News. Strangesounds.org, Environmental Risk Managers, Environmental Monitor, AGUniverse, EoS (AGU), NERC Planet Earth Magazine, Treehugger

AWARDS, HONORS, AND COMMISSIONS		
Consulting Hydrologist, Trends in Drought and Exposure Across Africa, Water Aid		2022
Invited Delegate and Speaker, European Union Pavilion Side Event, 'Climate services for adaptation in Sub-Saharan Africa', COP27, Sharm-el-Sheik,		2022
Invited Delegate and Speaker, WMO Science Pavilion Side Event, 'Co-development of tailored climate services for multiple socio-economic sectors and stakeholders in Sub-Saharan Africa', COP27, Sharm-el-	Sheik	2022
Advisory Board Member - CONFER Project, EU Horizon 2020	2020)_
Advisory Board Member - FOCUS-Africa Project, EU Horizon 2020	2020)_
Associate Editor - Water and Critical Zone Section, Frontiers in Water	2019)_
David A. Siegel ERI Director's Award, Earth Research Institute This \$5000 award recognizes scientific leadership within the ERI research community and is particularly focused on recognizing a PI's ability to establish interdisciplinary scientific relationships.		2018
Certified Professional Hydrologist - Surface Water, American Institute of Hydrology, Cert#: 18-H-9002	2017	' _
NSF Hydrologic Sciences Review Panel Member National Science Foundation, Washington, DC		2017
Ignacio Rodriguez-Iturbe Publication Award, Best Publication in Ecohydrology for 2016 John Wiley & Sons		2017
Invited Expert Peer Reviewer, Proposed Rule for Mercury Water Quality Objectives and Implementation Environmental Protection Agency (California)		2016
Invited Keynote Speaker, 'Reclaiming the Sierra 2015: The New Gold Rush'. The Sierra Fund		2015
Invited Speaker, 'Rhône-Sacramento River Management Workshop' ISRivers Conference		2014
Consulting Scientist, 'Central Valley Flood Protection Plan 2017', California Department of Water Resources		2014
Invited Expert Testimony, 'Public health and environmental impacts caused by abandoned mines and mercury',		
California State Assembly Natural Resources Committee, Sacramento, CA, USA		2014
Peer Review College Member, Natural Environment Research Council	2010)-2013
Invited Keynote Speaker, '4th International Seminar on Small Catchments Dynamics', International Association of Geomorphologists, Israel		2010
Expert Panelist on Floodplain Restoration, Floodplain Management Association Annual Conference, San Jose, CA, USA		2009
Expert Instructor, Course on Sediment Transport: Measurement, Modelling, and Management, Forestry and Technology Center of Catalonia, Spain		2009

Invited Delegate, 'An International Workshop Defining Hydromorphological Condition and Links to Ecology', The Macaulay Institute and Aberdeen University, UK	2009
Expert Panelist on Central Valley Flood Hazards, American Association of Geographers Annual Meeting	2007
Guest Editor, San Francisco Estuary and Watershed Science (Online Journal)	2005
Technical Advisory Committee Member, Sacramento River Partners, Chico, CA.	2004-2005
UC Santa Barbara Dissertation Fellowship, Graduate Division, UC Santa Barbara	2001
Space Grant Graduate Fellowship, UC Santa Barbara Cal Space Institute Center of Excellence	2001
Grant for Young Geomorphologists, International Association of Geomorphologists	2001
Science and Engineering Research Grant, Graduate Division, UC Santa Barbara	2000
Scientific Review Panel Member, CALFED Bay-Delta Restoration Program, Sacramento, CA	1999
Dozier Fellowship, Donald Bren School of Environmental Science & Management	1999
GRADUATE STUDENT AND POSTDOC ADVISING/SUPERVISION https://singer.eri.ucsb.edu/people/	
George Blake, PhD (Committee Member), GW4 NERC Doctoral Training Programme, Geographical Sciences, UoB Thesis: Modelling climate change and impacts in the Horn of Africa Drylands (In Progress)	2022-
Katherine Cocking, PhD (Primary), CU College-Funded, Earth & Environmental Sciences, CU Thesis: Climate change projections and impacts in the Horn of Africa Drylands (In Progress)	2021-
Pierre Lochin, PhD (Committee Member), H2O'Lyon École Universitaire de recherche des Sciences de l'eau ENS, Lyon Thesis: Controls on riparian forest water availability and corresponding vegetation responses (In Progress)	2021-
Saskia Salwey, PhD (Committee Member), GW4 NERC Doctoral Training Programme, Geographical Sciences, UoB Thesis: Influence of reservoirs and their operational rules on streamflow regimes (In Progress)	2020-
Dagmawi Teklu Asfaw, Postdoc, Royal Society and EU Funded, UoB	2019-
Eferhonore Efe-Eyefia, PhD (Committee Member), Nigerian government Funded, School of Mathematics, Cardiff Thesis: Simulating spatio-temporal components of rainfall (In Progress)	2019-
Conor McMahon, PhD (Committee Member), SERDP (DoD) Funded, Dept Geography, UCSB Thesis: Fractional pixel signature of riparian forest stress in response to water availability (In Progress)	2019-
Bryn Morgan, PhD (Committee Member), NSF and ERDP (DoD) Funded, Dept Geog, UCSB Thesis: Modeling and measuring climate-controlled water availability in riparian forests (In Progress)	2018-
Melissa Rohde, PhD (Committee Member), NSF Geography Funded, SUNY-ESF Thesis: Development of ecological forest health indices in groundwater dependent ecosystems (In Progress)	2018-
Jared Williams, MS (Committee Member), NSF Geography Funded, SUNY-ESF Thesis: Water use and plant growth in a multiple-use basin (<i>In Progress</i>)	2018-
Dave MacLeod, Postdoc, EU Horizon 2020 Funded, UoB	2020-2022
Kudzai Farai Keseke, Postdoc, SERDP (DoD) Funded, UCSB	2018-2021
Li Kui, Postdoc, NSF and The Nature Conservancy Funded, UCSB	2018-2022
Lissa Pelletier, MS (Committee Member), SERDP (DoD) Funded, SUNY-ESF	2018-2022

The implication of the desired and the second of the secon	
Thesis: Plant growth and ecosystem health metrics in drought-prone ecosystems (In Progress)	
Romy Sabathier, PhD (Primary), SERDP (DoD) Funded, Earth & Environmental Sciences, CU Thesis: Development and assessment of indicators of forest health in response to climate change (In Progress)	2018-2023
Maria Warter, PhD (Primary), SERDP (DoD) Funded, Earth & Environmental Sciences, CU Thesis: Quantifying water availability to plants under climate change (Submitted)	2018-2023
Isaac Kipkemoi, PhD (Committee Member), Kenyan Government Scholarship, Geographical Sciences, UoB Thesis: Detecting signatures of drought in vegetation of East Africa (In Progress)	2018-2023
Chris Kibler, PhD (Committee Member), NSF Geography Funded, Department of Geography, UCSB Thesis: Remote sensing of forest health in response to water stress (<i>In Progress</i>)	2017-2023
Shiuan-An Chen, PhD (Committee Member), School of Geographical Sciences, UoB Thesis: Climatic controls on river topography (Completed)	2016-2020
Nooshin Mehrnegar, PhD (Committee Member), University Funded, Earth & Environmental Sciences, Cl Thesis: Modelling of global hydrologic fluxes via remote sensing and data assimilation (Completed)	J 2017-2021
Andrés Quichimbo, PhD (Committee Member), University Funded, Earth & Environmental Sciences, CU Thesis: Groundwater modelling of climatic controls on recharge (Completed)	2017-2021
Thomas Myktyn, MS (Committee Member), Dept. Geology, San Jose State University Thesis: History of deep mercury storage in Yolo Bypass (Completed)	2016-2020
Marc Mayes, Postdoc, SERDP (DoD) Funded, UCSB	2018-2020
Rory Hollings, MRes (Committee Member), NERC Studentship, School of Geographical Sciences, UoB	2014-2017
Thesis: How do rainstorms shape dryland river basins? (Completed)	20112017
Tyler Nakamura, MS (Committee Member), Dept. Geology, San Jose State University Thesis: Deep storage of hydraulic mining sediment along the Lower Yuba River, CA (Completed)	2015-2017
Cristina Evans, PhD (Primary), NERC Studentship, Dept. EES, University of St Andrews Thesis: Modeling climate, topography, and substrate controls on water partitioning in river floodplains (Completed)	2013-2017
Christopher Sargeant, PhD (Primary), NERC Studentship, Dept. of EES, University of St Andrews Thesis: The ecohydrologic signature of drought in river corridors (Completed)	2012-2017
Louise Slater, PhD (Primary), NERC Studentship, Dept. EES, University of St Andrews Thesis: Trends in alluvial channel geometry and streamflow: an investigation of patterns and controls (Completed)	2010-2014
John Higson, MPhil (Primary), <i>Dept. EES, University of St Andrews</i> Thesis: The impact of the streamflow hydrograph on sediment supply from terrace erosion (<i>Completed</i>)	2009-2014
Nina Kilham (Committee Member), PhD, Department of Geography, UCSB Thesis: Floodplain Sedimentation on the Feather River, California: Combined Use of Remote Sensing and Numerical Modeling to Analyze Contemporary Deposition Patterns in a Historically Mined Basin (Completed)	2005-2009
Michael Springborn (Primary), PhD, Bren School, UCSB Project: Sediment-adsorbed total mercury flux through Yolo Bypass, the primary floodway and wetland in the Sacramento Valley, California (<i>Completed</i>)	2006
EXTERNAL ACADEMIC SERVICE	
External Examiner, MSc: Water and Environmental Management, University of Bristol	2022-
Session Convener , 'Building operational weather and climate services for sustainable development in the global South', CL2.17, <i>European Geosciences Union Annual Meeting</i> , Virtual, P. Roudier,	
R. Boscolo, P.D. Kangah, E. Kolstad, M. Singer	2021
Cardiff University Pod Member, Unlearning Racism in Geoscience (URGE)	2021-

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Singer, M. (Vitae)

Board Member, Water Security Alliance, Great Western 4 (GW4) Universities of Southwest UK	2019-
Session Convener, 'Indicators of plant water availability and stress in drought-prone forests at a range of spatial and temporal scales', H076 American Geophysical Union Fall Meeting, Washington, DC, M. Singer, K. Caylor, D. Roberts, J. Stella	2018
External Examiner for Ph.D., Universitat de Barcelona	2018
NSF Hydrologic Sciences Review Panel Member, National Science Foundation, Washington, DC	2017
External Examiner for Ph.D., École Normale Supérieure de Lyon, University of Lyon	2015
Session Convener, 'Water quality & toxicity', ISRivers Conference, Lyon, France	2015
External Examiner for Ph.D., Department of Geography, University of Exeter	2013
External Examiner for Masters Thesis, Department of Geography, Simon Fraser University	2011
Scientific Committee Member, '4th International Seminar on Small Catchments Dynamics', International Association of Geomorphologists, Israel	2010
NERC Peer Review College Member, Natural Environment Research Council (NERC), UK	2010-2013
Workshop co-Organizer, 'Applied Sediment Dynamics-Scaling Issues' Telford-SAGES Workshop, University of Glasgow, T. Hoey, M. Singer, M. Attal	2010
Session Convener , 'Sediment supply, storage, and delivery as controlled by hillslope-channel coupling', EP51B, EP53E, EP54A American Geophysical Union Fall Meeting, San Francisco, M. Singer, S. Mudd, E. Gabet	2009
Session Co-Convener, 'The influence of dams on sediment regimes and implications for management', European Geosciences Union Annual Meeting, HS11.4, Vienna, R.J. Batalla, M. Singer, D. Vericat	2009
British Society for Geomorphology Campus Representative, University of St Andrews	2008-2012
Field Trip Co-Leader, 'Tracking Hydraulic Mining Sediment in the Sierra Foothills and Sacramento Valley', American Association of Geographers Annual Meeting Field Trip	2007
Geomorphology Session Convener, Sacramento River Restoration Science Conference, Chico, CA	2007
Ph.D. Committee Member/Examiner, University of California Santa Barbara.	2005-2009
Ph.D. Student Project Co-Advisor, Michael Springborn, University of California Santa Barbara.Co-advised on secondary research project.	2004
Peer Reviewer >130 journal articles, >30 proposals, >5 agency reports, several book chapters, 1 book	2003-

Relevant Journals and Organizations

American Geophysical Union Books, American Geophysical Union Monographs, Basin Research, Bay-Delta Ecosystem Restoration Program, CALFED Ecosystem Restoration Program, Carnegie Trust for Scottish Universities, Earth Surface Processes and Landforms, Earth's Future, Ecological Applications, Ecological Engineering, Environmental Management, Environmental Modelling and Software, Environmental Pollution, Environmental Research Letters, Fondazione Cassa di Risparmio di Padova e Rovigo (Italy), Forest Ecology and Management, French National Research Agency (ANR), Geografiska Annaler-Physical Geography, Geological Magazine, Geological Society of America Bulletin, Geology, Geomorphology, Geophysical Research Letters, GeoResJ, Hydrological Processes, Hydrology and Earth System Sciences (HESS), International Association of Hydrological Sciences (IAHS) Red Books, International Journal of Climatology, International Journal of Sediment Research, Journal of the American Water Resources Association, Journal of Environmental Management, Journal of Geophysical Research-Earth Surface, Journal of Hydro-environment Research, Journal of Hydrology, Journal of Hydrology-Regional Studies, Journal of Radioanalytical and Nuclear Chemistry, Journal of River Basin Management, Journal of Soils and Sediments, Journal of Water Resources Management, Land Degradation and Development, Limnologica, National Science Foundation

(USA) - CAREER Program, National Science Foundation - Environmental Engineering and Sustainability Program (CBET),
National Science Foundation - Frontier Research in Earth Sciences (FRES), National Science Foundation - Geomorphology & Landuse
Dynamics Program (EAR), National Science Foundation - Geography & Spatial Sciences Program (BCS), National Science Foundation
- Paleo Perspectives on Climate Change Program (P2C2), National Science Foundation - Hydrologic Sciences Program (EAR), Natural
Environment Research Council (UK-NERC), Natural Sciences and Engineering Research Council of Canada (NSERC), Nature
Communications, Nature Geoscience, Netherlands Organisation for Scientific Research, One Earth, Physical Geography, PLOS One,
Reviews in Geophysics, Sacramento Municipal Utilities District, Sacramento River Partners, San Francisco Estuary and Watershed
Science, Sea Grant, Sedimentology, Southeastern Geography, Swiss National Science Foundation, The Nature Conservancy, The Royal
Society (UK), The Science of the Total Environment, Trees - Structure and Function, Trinity River Restoration Program, US Geological
Survey, Water Resources Management, Water Resources Research

UNIVERSITY ADMINISTRATION

Lectureship Shortlist/Interview Panel Member, EARTH, Cardiff Lectureship Interview Panel Member, EARTH, Cardiff School Executive Committee Member, EARTH, Cardiff School Executive Committee Member, EARTH, Cardiff School Research Executive Committee Member, EARTH, Cardiff Lead, Centre for Resilience and Environmental Change, Cardiff Deputy Director, Water Research Institute, Cardiff Doard Member, Water Research Institute, Cardiff Doard Member, Water Research Institute, Cardiff Soard Member, Water Research Institute, Cardiff MSc Programme Director, Water in a Changing World, Cardiff Hydrological Cycle' EA2219 Module Coordinator (~50 undergrad students), Cardiff Water in the Environment' EAT109 Module Coordinator (~30 MSc students), Cardiff Merit Review Committee Chair, ERI, UCSB 2017 Merit Review Committee Chair, ERI, UCSB 2016 Honours (upper division) Advisor of Studies (~65 students), EES, UStA 2016-2017 Water in the Environment' Course Coordinator, EES, UStA 2016-2017 Director of Postgraduate Studies (Graduate School), EES, UStA 2015 Merit Review Committee Chair, ERI, UCSB 2015 Merit Review Committee Chair, ERI, UCSB 2016 Merit Review Committee Chair, ERI, UCSB 2017 Merit Review Committee Chair, ERI, UCSB 2018 Merit Review Committee Chair, ERI, UCSB 2019 Merit Review Committee Chair, ERI, UCSB 2010 Merit Review Committee Chair, ERI, UCSB 2011 Merit Review Committee Chair, ERI, UCSB 2012 Merit Review Committee Chair, ERI, UCSB 2014 Merit Review Committee Chair, ERI, UCSB 2015 Merit Review Committee Chair, ERI, UCSB 2016 Merit Review Committee Chair, ERI, UCSB 2017 Merit Review Committee Chair, ERI, UCSB 2018 Merit Review Committee Chair, ERI, UCSB 2019 Merit Review Committee Chair, ERI, UCSB 2009-2011 Merit Review Committee Chair, ERI, UCSB 2009-2012 Merit Review Committee Chair, ERI, UCSB 2009-2012 Merit Review Committee Chair, ERISS, UCSB 2009 Merit Review Committee Chair, ERISS, UCSB 2009 Merit Review Committee Chair, ERISS, UCSB 2009-2010 Merit Review Committee Chair, ERISS, UCSB 2009-2010 Me	NERC Internal Review Panel Member, EARTH, Cardiff	2022
School Executive Committee Member, $EARTH$, $Cardiff$ 2021-School Research Executive Committee Member, $EARTH$, $Cardiff$ 2021-Head, Centre for Resilience and Environmental Change, $Cardiff$ 2021-Deputy Director, Water Research Institute, $Cardiff$ 2017-Board Member, Water Research Institute, $Cardiff$ 2017-MSc Programme Director, Water in a Changing World, $Cardiff$ 2017-'Hydrological Cycle' EA2219 Module Coordinator (~50 undergrad students), $Cardiff$ 2017-Water in the Environment' EAT109 Module Coordinator (~30 MSc students), $Cardiff$ 2017-Merit Review Committee Chair, ERI , $UCSB$ 2017Merit Review Committee Chair, ERI , $UCSB$ 2016Honours (upper division) Advisor of Studies (~65 students), EES , $UStA$ 2015-2017Water in the Environment' Course Coordinator, EES , $UStA$ 2012-2017Internal PhD Thesis Examiner, EES , $UStA$ 2012-2017Internal PhD Thesis Examiner, EES , $UStA$ 2013-2017Internal PhD Thesis Examiner, EES , $UStA$ 2015-2017Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2016Merit Review Committee Chair, ERI , $UCSB$ 2012Academic Interview Panel Member, GG , $UStA$ 2012-2012Postgraduate (Graduate School) Convenor, GG , $UStA$ 2019-2012Honours Physical Geography Field Course Coordinator, GG , $UStA$ 2009-2012Indoors Science Dissertation Module Coordinator, GG , $UStA$ 2009-2012In and 2^{10} Year Undergraduate Science Advisor, GG , $UStA$ 2009-2012	Lectureship Shortlist/Interview Panel Member, EARTH, Cardiff	2022
School Research Executive Committee Member, $EARTH$, $Cardiff$ 2021-Head, Centre for Resilience and Environmental Change, $Cardiff$ 2021-Deputy Director, Water Research Institute, $Cardiff$ 2017-Board Member, Water Research Institute, $Cardiff$ 2017-MSc Programme Director, Water in a Changing World, $Cardiff$ 2017-'Hydrological Cycle' EA2219 Module Coordinator (~50 undergrad students), $Cardiff$ 2017-Water in the Environment' EAT109 Module Coordinator (~30 MSc students), $Cardiff$ 2017-Internal PhD Thesis Examiner, $Cardiff$ 2017Merit Review Committee Chair, ERI , $UCSB$ 2016Honours (upper division) Advisor of Studies (~65 students), EES , $USLA$ 2015-2017Water in the Environment' Course Coordinator, EES , $USLA$ 2012-2017Internal PhD Thesis Examiner, EES , $USLA$ 2012-2017IAPETUS Doctoral Training Programme Director for St Andrews, EES , $USLA$ 2013-2017Internal PhD Thesis Examiner, EES , $USLA$ 2015-2017Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2014Merit Review Committee Chair, ERI , $UCSB$ 2012Academic Interview Panel Member, GG , $USLA$ 2012-2012Postgraduate (Graduate School) Convenor, GG , $USLA$ 2019-2012Honours Physical Geography Field Course Coordinator, GG , $USLA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $USLA$ 2009-2012 I^a and I^{a} Year Undergraduate Science Advisor, GG , $USLA$ 2	Lectureship Interview Panel Member, EARTH, Cardiff	2022
Head, Centre for Resilience and Environmental Change, Cardiff2021-Deputy Director, Water Research Institute, Cardiff2019-Board Member, Water Research Institute, Cardiff2017-MSc Programme Director, Water in a Changing World, Cardiff2017-'Hydrological Cycle' EA2219 Module Coordinator (\sim 50 undergrad students), Cardiff2017-'Hydrological Cycle' EA2219 Module Coordinator (\sim 30 MSc students), Cardiff2017-Water in the Environment' EAT109 Module Coordinator (\sim 30 MSc students), Cardiff2017-Internal PhD Thesis Examiner, Cardiff2017Merit Review Committee Chair, ERI, UCSB2016Honours (upper division) Advisor of Studies (\sim 65 students), EES, UStA2015-2017Water in the Environment' Course Coordinator, EES, UStA2016-2017Director of Postgraduate Studies (Graduate School), EES, UStA2012-2017IAPETUS Doctoral Training Programme Director for St Andrews, EES, UStA2013-2017Internal PhD Thesis Examiner, EES, UStA2015Merit Review Committee Chair, ERI, UCSB2015Merit Review Committee Chair, ERI, UCSB2014Merit Review Committee Chair, ERI, UCSB2012Academic Interview Panel Member, GG, UStA2012Postgraduate (Graduate School) Convenor, GG, UStA2012Honours Physical Geography Field Course Coordinator, GG, UStA2009-2012Honours Science Dissertation Module Coordinator, GG, UStA2009-2012Honours Science Dissertation Module Coordinator, GG, UStA2009-2012Merit Review Committee Chair, ICESS, UCSB2009-2010 <td>School Executive Committee Member, EARTH, Cardiff</td> <td>2021-</td>	School Executive Committee Member, EARTH, Cardiff	2021-
Deputy Director, Water Research Institute, Cardiff2017-Board Member, Water Research Institute, Cardiff2017-MSc Programme Director, Water in a Changing World, Cardiff2017-'Hydrological Cycle' EA2219 Module Coordinator (~50 undergrad students), Cardiff2017-2019'Water in the Environment' EAT109 Module Coordinator (~30 MSc students), Cardiff2017-Internal PhD Thesis Examiner, Cardiff2017Merit Review Committee Chair, ERI, UCSB2017Merit Review Committee Chair, ERI, UCSB2016Honours (upper division) Advisor of Studies (~65 students), EES, UStA2015-2017'Water in the Environment' Course Coordinator, EES, UStA2016-2017Director of Postgraduate Studies (Graduate School), EES, UStA2012-2017IAPETUS Doctoral Training Programme Director for St Andrews, EES, UStA2013-2017Internal PhD Thesis Examiner, EES, UStA2015Merit Review Committee Chair, ERI, UCSB2015Merit Review Committee Chair, ERI, UCSB2015Merit Review Committee Chair, ERI, UCSB2012Academic Interview Panel Member, GG, UStA2012Postgraduate (Graduate School) Convenor, GG, UStA2012Library Representative, GG, UStA2012Honours Physical Geography Field Course Coordinator, GG, UStA2009-2011Postgraduate Committee Member, GG, UStA2009-2012Honours Science Dissertation Module Coordinator, GG, UStA2009-20121st and 2nd Year Undergraduate Science Advisor, GG, UStA2009-2012Merit Review Committee Chair, ICESS, UCSB2009	School Research Executive Committee Member, EARTH, Cardiff	2021-
Board Member, Water Research Institute, $Cardiff$ 2017-MSc Programme Director, Water in a Changing World, $Cardiff$ 2017-'Hydrological Cycle' EA2219 Module Coordinator (~50 undergrad students), $Cardiff$ 2017-2019'Water in the Environment' EAT109 Module Coordinator (~30 MSc students), $Cardiff$ 2017-Internal PhD Thesis Examiner, $Cardiff$ 2017Merit Review Committee Chair, ERI , $UCSB$ 2016Honours (upper division) Advisor of Studies (~65 students), EES , $USLA$ 2015-2017'Water in the Environment' Course Coordinator, EES , $USLA$ 2016-2017Director of Postgraduate Studies (Graduate School), EES , $USLA$ 2012-2017Internal PhD Thesis Examiner, EES , $USLA$ 2013-2017Internal PhD Thesis Examiner, EES , $USLA$ 2015-2017Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2014Merit Review Committee Chair, ERI , $UCSB$ 2012Academic Interview Panel Member, GG , $USLA$ 2012Postgraduate (Graduate School) Convenor, GG , $USLA$ 2012Library Representative, GG , $USLA$ 2010-2012Honours Physical Geography Field Course Coordinator, GG , $USLA$ 2009-2011Postgraduate Committee Member, GG , $USLA$ 2009-2012Is and 2^{nd} Year Undergraduate Science Advisor, GG , $USLA$ 2009-2012Merit Review Committee Chair, $ICESS$, $UCSB$ 2009Merit Review Committee Member, $ICESS$, $UCSB$ 2009	Head, Centre for Resilience and Environmental Change, Cardiff	2021-
MSc Programme Director, Water in a Changing World, $Cardiff$ 2017-'Hydrological Cycle' EA2219 Module Coordinator (~50 undergrad students), $Cardiff$ 2017-2019'Water in the Environment' EAT109 Module Coordinator (~30 MSc students), $Cardiff$ 2017-Internal PhD Thesis Examiner, $Cardiff$ 2017Merit Review Committee Chair, ERI , $UCSB$ 2016Merit Review Committee Chair, ERI , $UCSB$ 2016Honours (upper division) Advisor of Studies (~65 students), EES , $USLA$ 2015-2017'Water in the Environment' Course Coordinator, EES , $USLA$ 2016-2017Director of Postgraduate Studies (Graduate School), EES , $USLA$ 2012-2017IAPETUS Doctoral Training Programme Director for St Andrews, EES , $USLA$ 2013-2017Internal PhD Thesis Examiner, EES , $USLA$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2014Merit Review Committee Chair, ERI , $UCSB$ 2012Academic Interview Panel Member, GG , $USLA$ 2012Postgraduate (Graduate School) Convenor, GG , $USLA$ 2012Honours Physical Geography Field Course Coordinator, GG , $USLA$ 2009-2011Postgraduate Committee Member, GG , $USLA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $USLA$ 2009-2012I* and 2^{ad} Year Undergraduate Science Advisor, GG , $USLA$ 2009-2012Merit Review Committee Member, $ICESS$, $UCSB$ 2008Merit Review Committee Member, $ICESS$, $UCSB$ 2008-2012	Deputy Director, Water Research Institute, Cardiff	2019-
Hydrological Cycle' EA2219 Module Coordinator (~50 undergrad students), Cardiff2017-2019Water in the Environment' EAT109 Module Coordinator (~30 MSc students), Cardiff2017-Internal PhD Thesis Examiner, Cardiff2017Merit Review Committee Chair, ERI, UCSB2017Merit Review Committee Chair, ERI, UCSB2016Honours (upper division) Advisor of Studies (~65 students), EES, UStA2015-2017Water in the Environment' Course Coordinator, EES, UStA2016-2017Director of Postgraduate Studies (Graduate School), EES, UStA2012-2017IAPETUS Doctoral Training Programme Director for St Andrews, EES, UStA2013-2017Internal PhD Thesis Examiner, EES, UStA2015Merit Review Committee Chair, ERI, UCSB2015Merit Review Committee Chair, ERI, UCSB2014Merit Review Committee Chair, ERI, UCSB2012Academic Interview Panel Member, GG, UStA2012Postgraduate (Graduate School) Convenor, GG, UStA2012Library Representative, GG, UStA2012Honours Physical Geography Field Course Coordinator, GG, UStA2009-2011Postgraduate Committee Member, GG, UStA2009-2012I*st and 2^{nd} Year Undergraduate Science Advisor, GG , UStA2008-2012Merit Review Committee Chair, ICESS, UCSB2009Merit Review Committee Member, ICESS, UCSB2009	Board Member, Water Research Institute, Cardiff	2017-
Water in the Environment' EAT109 Module Coordinator (~50 MSc students), Cardiff2017Internal PhD Thesis Examiner, Cardiff2017Merit Review Committee Chair, ERI, UCSB2016Menit Review Committee Chair, ERI, UCSB2016Honours (upper division) Advisor of Studies (~65 students), EES, UStA2015-2017'Water in the Environment' Course Coordinator, EES, UStA2016-2017Director of Postgraduate Studies (Graduate School), EES, UStA2012-2017IAPETUS Doctoral Training Programme Director for St Andrews, EES, UStA2013-2017Internal PhD Thesis Examiner, EES, UStA2015Merit Review Committee Chair, ERI, UCSB2015Merit Review Committee Chair, ERI, UCSB2014Merit Review Committee Chair, ERI, UCSB2012Academic Interview Panel Member, GG, UStA2012Postgraduate (Graduate School) Convenor, GG, UStA2012Honours Physical Geography Field Course Coordinator, GG, UStA2009-2012Honours Physical Geography Field Course Coordinator, GG, UStA2009-2012Honours Science Dissertation Module Coordinator, GG, UStA2009-2012I*st and 2nd Year Undergraduate Science Advisor, GG, UStA2009-2012Merit Review Committee Chair, ICESS, UCSB2009Merit Review Committee Member, ICESS, UCSB2009	MSc Programme Director, Water in a Changing World, Cardiff	2017-
Internal PhD Thesis Examiner, $Cardiff$ 2017Merit Review Committee Chair, ERI , $UCSB$ 2016Merit Review Committee Chair, ERI , $UCSB$ 2016Honours (upper division) Advisor of Studies (~65 students), EES , $UStA$ 2015-2017Water in the Environment' Course Coordinator, EES , $UStA$ 2016-2017Director of Postgraduate Studies (Graduate School), EES , $UStA$ 2012-2017IAPETUS Doctoral Training Programme Director for St Andrews, EES , $UStA$ 2013-2017Internal PhD Thesis Examiner, EES , $UStA$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2014Merit Review Committee Chair, ERI , $UCSB$ 2012Academic Interview Panel Member, GG , $UStA$ 2012Postgraduate (Graduate School) Convenor, GG , $UStA$ 2012-2012Honours Physical Geography Field Course Coordinator, GG , $UStA$ 2009-2011Postgraduate Committee Member, GG , $UStA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $UStA$ 2009-2012 I^{st} and 2^{nd} Year Undergraduate Science Advisor, GG , $UStA$ 2009-2012Merit Review Committee Chair, $ICESS$, $UCSB$ 2009Merit Review Committee Member, $ICESS$, $UCSB$ 2009	'Hydrological Cycle' EA2219 Module Coordinator (~50 undergrad students), Cardiff	2017-2019
Merit Review Committee Chair, ERI , $UCSB$ 2017Merit Review Committee Chair, ERI , $UCSB$ 2016Honours (upper division) Advisor of Studies (~65 students), EES , $USLA$ 2015-2017Water in the Environment' Course Coordinator, EES , $USLA$ 2016-2017Director of Postgraduate Studies (Graduate School), EES , $USLA$ 2012-2017IAPETUS Doctoral Training Programme Director for St Andrews, EES , $USLA$ 2013-2017Internal PhD Thesis Examiner, EES , $USLA$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2014Merit Review Committee Chair, ERI , $UCSB$ 2012Academic Interview Panel Member, GG , $USLA$ 2012Postgraduate (Graduate School) Convenor, GG , $USLA$ 2010-2012Honours Physical Geography Field Course Coordinator, GG , $USLA$ 2009-2011Postgraduate Committee Member, GG , $USLA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $USLA$ 2009-2012 I^{st} and I^{oth} Year Undergraduate Science Advisor, I^{oth}	'Water in the Environment' EAT109 Module Coordinator (~30 MSc students), Cardiff	2017-
Merit Review Committee Chair, ERI , $UCSB$ 2016Honours (upper division) Advisor of Studies (~65 students), EES , $UStA$ 2015-2017'Water in the Environment' Course Coordinator, EES , $UStA$ 2016-2017Director of Postgraduate Studies (Graduate School), EES , $UStA$ 2012-2017IAPETUS Doctoral Training Programme Director for St Andrews, EES , $UStA$ 2013-2017Internal PhD Thesis Examiner, EES , $UStA$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2014Merit Review Committee Chair, ERI , $UCSB$ 2012Academic Interview Panel Member, GG , $UStA$ 2012Postgraduate (Graduate School) Convenor, GG , $UStA$ 2010-2012Honours Physical Geography Field Course Coordinator, GG , $UStA$ 2009-2011Postgraduate Committee Member, GG , $UStA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $UStA$ 2009-2012 I^{st} and I^{od} Year Undergraduate Science Advisor, I^{od} , I^{od} $I^{$	Internal PhD Thesis Examiner, Cardiff	2017
Honours (upper division) Advisor of Studies (~65 students), EES , $USLA$ 2015-2017'Water in the Environment' Course Coordinator, EES , $USLA$ 2016-2017Director of Postgraduate Studies (Graduate School), EES , $USLA$ 2012-2017IAPETUS Doctoral Training Programme Director for St Andrews, EES , $USLA$ 2013-2017Internal PhD Thesis Examiner, EES , $USLA$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2014Merit Review Committee Chair, ERI , $UCSB$ 2012Academic Interview Panel Member, GG , $USLA$ 2012Postgraduate (Graduate School) Convenor, GG , $USLA$ 2012Library Representative, GG , $USLA$ 2010-2012Honours Physical Geography Field Course Coordinator, GG , $USLA$ 2009-2011Postgraduate Committee Member, GG , $USLA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $USLA$ 2009-2012 I^{st} and I^{old} Year Undergraduate Science Advisor, I^{old} I^{old	Merit Review Committee Chair, ERI, UCSB	2017
'Water in the Environment' Course Coordinator, EES , $UStA$ 2016-2017Director of Postgraduate Studies (Graduate School), EES , $UStA$ 2012-2017IAPETUS Doctoral Training Programme Director for St Andrews, EES , $UStA$ 2013-2017Internal PhD Thesis Examiner, EES , $UStA$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2014Merit Review Committee Chair, ERI , $UCSB$ 2012Academic Interview Panel Member, GG , $UStA$ 2012Postgraduate (Graduate School) Convenor, GG , $UStA$ 2010-2012Library Representative, GG , $UStA$ 2010-2012Honours Physical Geography Field Course Coordinator, GG , $UStA$ 2009-2011Postgraduate Committee Member, GG , $UStA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $UStA$ 2009-2012 I^{st} and I^{out} Year Undergraduate Science Advisor, I^{out} $I^$	Merit Review Committee Chair, ERI, UCSB	2016
Director of Postgraduate Studies (Graduate School), EES , $USLA$ 2012-2017IAPETUS Doctoral Training Programme Director for St Andrews, EES , $USLA$ 2013-2017Internal PhD Thesis Examiner, EES , $USLA$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2014Merit Review Committee Chair, ERI , $UCSB$ 2012Academic Interview Panel Member, GG , $USLA$ 2012Postgraduate (Graduate School) Convenor, GG , $USLA$ 2010-2012Library Representative, GG , $USLA$ 2010-2012Honours Physical Geography Field Course Coordinator, GG , $USLA$ 2009-2011Postgraduate Committee Member, GG , $USLA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $USLA$ 2009-2012 I^{st} and I^{st} committee Chair, $ICESS$, $UCSB$ 2009Merit Review Committee Member, $ICESS$, $UCSB$ 2009Merit Review Committee Member, $ICESS$, $UCSB$ 2009	Honours (upper division) Advisor of Studies (~65 students), EES, UStA	2015-2017
IAPETUS Doctoral Training Programme Director for St Andrews, EES, UStA2013-2017Internal PhD Thesis Examiner, EES, UStA2015Merit Review Committee Chair, ERI, UCSB2015Merit Review Committee Chair, ERI, UCSB2014Merit Review Committee Chair, ERI, UCSB2012Academic Interview Panel Member, GG, UStA2012Postgraduate (Graduate School) Convenor, GG, UStA2012Library Representative, GG, UStA2010-2012Honours Physical Geography Field Course Coordinator, GG, UStA2009-2011Postgraduate Committee Member, GG, UStA2009-2012Honours Science Dissertation Module Coordinator, GG, UStA2009-20121st and 2nd Year Undergraduate Science Advisor, GG, UStA2008-2012Merit Review Committee Chair, ICESS, UCSB2009Merit Review Committee Member, ICESS, UCSB2009	'Water in the Environment' Course Coordinator, EES, UStA	2016-2017
Internal PhD Thesis Examiner, EES , $USLA$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2014Merit Review Committee Chair, ERI , $UCSB$ 2012Academic Interview Panel Member, GG , $USLA$ 2012Postgraduate (Graduate School) Convenor, GG , $USLA$ 2010-2012Library Representative, GG , $USLA$ 2010-2012Honours Physical Geography Field Course Coordinator, GG , $USLA$ 2009-2011Postgraduate Committee Member, GG , $USLA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $USLA$ 2009-20121st and 2nd Year Undergraduate Science Advisor, GG , $USLA$ 2008-2012Merit Review Committee Chair, $ICESS$, $UCSB$ 2009Merit Review Committee Member, $ICESS$, $UCSB$ 2009	Director of Postgraduate Studies (Graduate School), EES, UStA	2012-2017
Merit Review Committee Chair, ERI , $UCSB$ 2015Merit Review Committee Chair, ERI , $UCSB$ 2014Merit Review Committee Chair, ERI , $UCSB$ 2012Academic Interview Panel Member, GG , $UStA$ 2012Postgraduate (Graduate School) Convenor, GG , $UStA$ 2012Library Representative, GG , $UStA$ 2010-2012Honours Physical Geography Field Course Coordinator, GG , $UStA$ 2009-2011Postgraduate Committee Member, GG , $UStA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $UStA$ 2009-2012 I^{st} and I^{st} and I^{st} Quart Undergraduate Science Advisor, I^{st} I	IAPETUS Doctoral Training Programme Director for St Andrews, EES, UStA	2013-2017
Merit Review Committee Chair, ERI, UCSB2014Merit Review Committee Chair, ERI, UCSB2012Academic Interview Panel Member, GG, UStA2012Postgraduate (Graduate School) Convenor, GG, UStA2012Library Representative, GG, UStA2010-2012Honours Physical Geography Field Course Coordinator, GG, UStA2009-2011Postgraduate Committee Member, GG, UStA2009-2012Honours Science Dissertation Module Coordinator, GG, UStA2009-20121st and 2nd Year Undergraduate Science Advisor, GG, UStA2008-2012Merit Review Committee Chair, ICESS, UCSB2009Merit Review Committee Member, ICESS, UCSB2009	Internal PhD Thesis Examiner, EES, UStA	2015
Merit Review Committee Chair, ERI, UCSB2012Academic Interview Panel Member, GG, UStA2012Postgraduate (Graduate School) Convenor, GG, UStA2012Library Representative, GG, UStA2010-2012Honours Physical Geography Field Course Coordinator, GG, UStA2009-2011Postgraduate Committee Member, GG, UStA2009-2012Honours Science Dissertation Module Coordinator, GG, UStA2009-20121st and 2nd Year Undergraduate Science Advisor, GG, UStA2008-2012Merit Review Committee Chair, ICESS, UCSB2009Merit Review Committee Member, ICESS, UCSB2007	Merit Review Committee Chair, ERI, UCSB	2015
Academic Interview Panel Member, GG , $UStA$ 2012Postgraduate (Graduate School) Convenor, GG , $UStA$ 2012Library Representative, GG , $UStA$ 2010-2012Honours Physical Geography Field Course Coordinator, GG , $UStA$ 2009-2011Postgraduate Committee Member, GG , $UStA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $UStA$ 2009-20121st and 2nd Year Undergraduate Science Advisor, GG , $UStA$ 2008-2012Merit Review Committee Chair, $ICESS$, $UCSB$ 2009Merit Review Committee Member, $ICESS$, $UCSB$ 2007	Merit Review Committee Chair, ERI, UCSB	2014
Postgraduate (Graduate School) Convenor, GG , $UStA$ 2012Library Representative, GG , $UStA$ 2010-2012Honours Physical Geography Field Course Coordinator, GG , $UStA$ 2009-2011Postgraduate Committee Member, GG , $UStA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $UStA$ 2009-20121st and 2nd Year Undergraduate Science Advisor, GG , $UStA$ 2008-2012Merit Review Committee Chair, $ICESS$, $UCSB$ 2009Merit Review Committee Member, $ICESS$, $UCSB$ 2007	Merit Review Committee Chair, ERI, UCSB	2012
Library Representative, GG , $UStA$ 2010-2012Honours Physical Geography Field Course Coordinator, GG , $UStA$ 2009-2011Postgraduate Committee Member, GG , $UStA$ 2009-2012Honours Science Dissertation Module Coordinator, GG , $UStA$ 2009-20121st and 2nd Year Undergraduate Science Advisor, GG , $UStA$ 2008-2012Merit Review Committee Chair, $ICESS$, $UCSB$ 2009Merit Review Committee Member, $ICESS$, $UCSB$ 2007	Academic Interview Panel Member, GG, UStA	2012
Honours Physical Geography Field Course Coordinator, GG, UStA2009-2011Postgraduate Committee Member, GG, UStA2009-2012Honours Science Dissertation Module Coordinator, GG, UStA2009-20121st and 2nd Year Undergraduate Science Advisor, GG, UStA2008-2012Merit Review Committee Chair, ICESS, UCSB2009Merit Review Committee Member, ICESS, UCSB2007	Postgraduate (Graduate School) Convenor, GG, UStA	2012
Postgraduate Committee Member, GG, UStA2009-2012Honours Science Dissertation Module Coordinator, GG, UStA2009-20121st and 2nd Year Undergraduate Science Advisor, GG, UStA2008-2012Merit Review Committee Chair, ICESS, UCSB2009Merit Review Committee Member, ICESS, UCSB2007	Library Representative, GG, UStA	2010-2012
Honours Science Dissertation Module Coordinator, GG , $UStA$ 2009-20121st and 2nd Year Undergraduate Science Advisor, GG , $UStA$ 2008-2012Merit Review Committee Chair, $ICESS$, $UCSB$ 2009Merit Review Committee Member, $ICESS$, $UCSB$ 2007	Honours Physical Geography Field Course Coordinator, GG, UStA	2009-2011
1st and 2nd Year Undergraduate Science Advisor, GG, UStA2008-2012Merit Review Committee Chair, ICESS, UCSB2009Merit Review Committee Member, ICESS, UCSB2007	Postgraduate Committee Member, GG, UStA	2009-2012
Merit Review Committee Chair, ICESS, UCSB2009Merit Review Committee Member, ICESS, UCSB2007	Honours Science Dissertation Module Coordinator, GG, UStA	2009-2012
Merit Review Committee Member, ICESS, UCSB 2007	1st and 2nd Year Undergraduate Science Advisor, GG, UStA	2008-2012
	Merit Review Committee Chair, ICESS, UCSB	2009
Deans Advisory Committee Representative Danald Bron School of ESCAM 1999 2000	Merit Review Committee Member, ICESS, UCSB	2007
Dean's Advisory Committee Representative, Donata Dien School of ESCIVI.	Deans Advisory Committee Representative, Donald Bren School of ES&M.	1999-2000

CONFERENCE PRESENTATIONS (last 5 years out of 103 total)

Supervised student and postdoc work denoted by *.

Phenological Classification and Atmospheric Drought Response of Riparian Vegetation in Drylands of the Southwestern United States,

Eos Trans. AGU, 101(52), Fall Meet. Suppl., Abstract H23B-08.

American Geophysical Union Fall Meeting

New Orleans, LA

2021

*Kibler, CL, Roberts, DA, Trugman, AT, Caylor, KK, Stella, JC, Singer, MB; Drought Responsiveness of Evapotranspiration in Dryland Riparian Vegetation,

^{*}McMahon, C, Roberts, DA, Singer, MB, Caylor, KK, Stella, JC;

Eos Trans. AGU, 101(52), Fall Meet. Suppl., Abstract H25G-1111. American Geophysical Union Fall Meeting	New Orleans, LA	2021
Stella, JC, *Williams, J, *Pelletier, L, *Kibler, CL, *Rohde, MM, <u>Singer, MB</u> , Roberts, DA, Caylor, KK, Lambert, A; <i>Water Stress in Riparian Woodlands from Groundwater Decline and Climate Change—Ecosystem Indicators at Multiple Scales</i> , Eos Trans. AGU, 101(52), Fall Meet. Suppl., Abstract EP21A-08. American Geophysical Union Fall Meeting	New Orleans, LA	2021
*Warter, MM, <u>Singer, MB</u> , Stella, JC, Caylor, KK, Roberts, DA, *Sabathier, R; Hydroclimatic Controls on Phenology for Functional Plant Types in Drylands of the Southwest USA, Eos Trans. AGU, 101(52), Fall Meet. Suppl., Abstract B33D-08. American Geophysical Union Fall Meeting	New Orleans, LA	2021
*Sabathier, R, <u>Singer, MB</u> , Stella, JC, Caylor, KK, Roberts, DA, Jaeger, KL, Olden, JD; Flow Permanence Along Ephemeral Streams in the Huachuca Sky Island, Arizona and its Consequent for Vegetation Distribution, Eos Trans. AGU, 101(52), Fall Meet. Suppl., Abstract H45P-1356. American Geophysical Union Fall Meeting	New Orleans, LA	2021
Cuthbert, MO, *Quichimbo, EA, *Asfaw, D, *MacLeod, D, Michaelides, K, Rosolem, R, Sin Challenges and opportunities in modelling water balance partitioning in East African drylands, Eos Trans. AGU, 101(52), Fall Meet. Suppl., Abstract H54C-01. American Geophysical Union Fall Meeting	nger, MB; New Orleans, LA	2021
Adloff, M, Singer, M, MacLeod, DA, Michaelides, K, *Mehrnegar, N, Hansford, E, Funk, storage in the Horn of Africa drylands dominated by seasonal rainfall extremes, Geosciences Research Abstracts. EGU21-15470, EGU General Assembly 2021 European Geosciences Union Annual Meeting	C, Mitchell, D: <i>Groundwater</i> Vienna, Austria	2021
Singer, MB, et al.: Stable isotope insights into dryland ecohydrology (INVITED), Geosciences Research Abstracts. EGU2021- 8405, EGU General Assembly 2021 European Geosciences Union Annual Meeting	Vienna, Austria	2021
Grieve, S, Mudd, S, Clubb, F, Singer, M , Michaelides, K, Chen, S-A: <i>Inverting fluvial network landscape dynamics</i> , Geosciences Research Abstracts. EGU2020-8740, EGU General Assembly 2020 European Geosciences Union Annual Meeting	topology to understand Vienna, Austria	2020
*Mehrnegar, N, Jones, O, Singer, MB, Schumacher, M, Jagdhuber, T, Scanlon, BR, Foroota Exploring meso-scale soil water and groundwater storage changes within the USA through a Bayesian con 12.5 km model simulations,		onthly
Geosciences Research Abstracts. EGU2020-19070, EGU General Assembly 2020 European Geosciences Union Annual Meeting	Vienna, Austria	2020
*Warter, M, <u>Singer, MB</u> , Roberts, D, Cuthbert, MO, Caylor, K, *Sabathier, R, Stella, <u>J;</u> Onset and Propagation of the 2012-2016 Drought in Southern California, Eos Trans. AGU, 100(52), Fall Meet. Suppl., Abstract H12G-05. American Geophysical Union Fall Meeting	San Francisco, CA	2019
*Quichimbo, EA, Cuthbert, MO, <u>Singer, MB</u> , Hobley, DEJ, Michaelides, K, <i>Development of a hydrological model for assessing drought and water balance changes in data-poor dryland regions</i> , Eos Trans. AGU, 100(52), Fall Meet. Suppl., Abstract H13G-07. American Geophysical Union Fall Meeting	San Francisco, CA	2019
 Singer, MB, Jones, O, Michaelides, K, *Quaglia, R, Rosolem, R, Stochastic simulation of climate and climate change near the land surface, Eos Trans. AGU, 100(52), Fall Meet. Suppl., Abstract H13Q-1984. American Geophysical Union Fall Meeting 	San Francisco, CA	2019
*Sabathier, R, <u>Singer, MB</u> , Stella, J, Caylor, K, Roberts, D, – The greening and browning of the Arizona desert in response to climate-controlled water availability,		

Eos Trans. AGU, 100(52), Fall Meet. Suppl., Abstract H33H-2026. American Geophysical Union Fall Meeting	San Francisco, CA	2019
*Mayes, M, *Morgan, B, Caylor, K, <u>Singer, MB</u> , Stella, J, Roberts, D, <i>Monitoring dryland riparian vegetation water use and stress via ECOSTRESS</i> , Eos Trans. AGU, 100(52), Fall Meet. Suppl., Abstract GC51E-1108. American Geophysical Union Fall Meeting	San Francisco, CA	2019
*Kibler, C, Roberts, D, <u>Singer, MB</u> , Stella, J, Remote sensing of plant-groundwater relations in riparian forests during the 2011-2017 California drought, Eos Trans. AGU, 100(52), Fall Meet. Suppl., Abstract B53N-2588. American Geophysical Union Fall Meeting	San Francisco, CA	2019
*Chen, S-A, Michaelides, K, <u>Singer, MB</u> , Richards, DA, <i>Global Analysis of Long-term versus Short-term Drainage Basin Erosion Rates</i> , Eos Trans. AGU, 100(52), Fall Meet. Suppl., Abstract EP53F-2218. American Geophysical Union Fall Meeting	San Francisco, CA	2019
Michaelides, K, Singer, MB, *Hollings, R, A framework for linking hillslope-channel connectivity to the development of the channel longitudinal profile, Eos Trans. AGU, 100(52), Fall Meet. Suppl., Abstract EP54A-07. American Geophysical Union Fall Meeting	San Francisco, CA	2019
<u>Singer, M.</u>, Michaelides, K., Hobley, D. Jones, O.; <i>Down to Earth: Simulation of climate change at the land surface</i>Workshop on Extremal Trends in Weather (WET)	Gregynog, Wales	2019
*Mehrnegar, N., Jones, O., <u>Singer, M.</u> , Schumacher, M., Bates, P, Forootan, E.; <i>Comparing global hydrological models and combining them with GRACE data by dynamic Bayesian averaging (DB.</i> Geosciences Research Abstracts. EGU2019-1189, EGU General Assembly 2019 European Geosciences Union Annual Meeting	A) Vienna, Austria	2019
*Sargeant, C., Singer, M.; Local and regional climatic controls on the seasonal hydroclimatic partitioning within riparian forests Geosciences Research Abstracts. EGU2019-4254, EGU General Assembly 2019 European Geosciences Union Annual Meeting	Vienna, Austria	2019
Singer, MB, Grieve, SWD, *Chen, S-A, Michaelides, K; Climatic signatures within the world's rive Eos Trans. AGU, 99(52), Fall Meet. Suppl., Abstract EP52B-04. American Geophysical Union Fall Meeting	rs San Francisco, CA	2018
*Chen, S-A, Michaelides, K, Grieve, SWD, <u>Singer, MB</u> ; <i>Climatic controls on river longitudinal profiles globally</i> Eos Trans. AGU, 99(52), Fall Meet. Suppl., Abstract EP53F-1968. American Geophysical Union Fall Meeting	San Francisco, CA	2018
Quichimbo, EA, <u>Singer, MB</u> , Cuthbert, MO; <i>Quantifying the factors controlling stream-aquifer interactions of ephemeral stream systems and implications for dryland water resource estimation</i> Eos Trans. AGU, 99(52), Fall Meet. Suppl., Abstract H32E-08. American Geophysical Union Fall Meeting	San Francisco, CA	2018
Singer, MB, *Sargeant, CI, *Evans, CM, Dritschel, D; Climate-controlled water availability to riparian forest trees Integrative Sciences and Sustainable Development of Rivers Conference (ISRivers)) Lyon, France	2018
*Mehrnegar, N., Forootan, E., Jones, O., <u>Singer, M.</u> , Bates, P; <i>A comprehensive assessment of a Bayesian-based and a statistical decomposition-based framework for separating GRACE signals</i> Geosciences Research Abstracts. EGU2018-6913, EGU General Assembly 2018 European Geosciences Union Annual Meeting	Vienna, Austria	2018
*Chen, S-A, Michaelides, K, Singer, MB; A global analysis of river longitudinal profiles British Society for Geomorphology Annual Meeting	Hull, UK	2017
Singer, MB, Michaelides, K; Stochastic simulation of convective rainfall to decipher the		

expression of climate change in drainage basins British Society for Geomorphology Annual Meeting	Hull, UK	2017
Singer, MB, *Sargeant, CS, Vallet-Coulomb, C; Source Water Isotope Identification Toolkit (SWIIT) for detecting historical water use by forest trees	Vormyouth UV	2017
Stable Isotope Mass Spectrometry User Group Meeting	Keyworth, UK	2017
Singer, MB, *Sargeant, CS; Historical variability of water use by riparian forests Séminaire scientifique de l'OHM Vallée du Rhône	Lyon, France	2017
*Hollings, R, Michaelides, K, <u>Singer, MB</u> , Nichols, M, Nearing, M; <i>Grain size indicators of sedimentary coupling between hillslopes and channels in a dryland basin</i> Geosciences Research Abstracts. EGU2017-16651, EGU General Assembly 2017 European Geosciences Union Annual Meeting	Vienna, Austria	2017
 Singer, MB, Michaelides, K, Nichols, M, Nearing, M; A simple stochastic rainstorm generator for simulating spatially and temporally varying rainfall Eos Trans. AGU, 97(52), Fall Meet. Suppl., Abstract GC13E-1247. American Geophysical Union Fall Meeting 	San Francisco, CA	2016
*Sargeant, CI, *Evans, C, Vallet-Coulomb, C, <u>Singer, MB</u> ; A toolkit for determining historical eco-hydrological interactions		
Eos Trans. AGU, 97(52), Fall Meet. Suppl., Abstract H23H-1676. American Geophysical Union Fall Meeting	San Francisco, CA	2016
*Evans, C, <u>Singer, MB</u> , Dritschel, D; <i>A subsurface hydrology model that traces oxygen isotopes</i> Eos Trans. AGU, 97(52), Fall Meet. Suppl., Abstract H23D-1571. American Geophysical Union Fall Meeting	San Francisco, CA	2016
Phillips, C, <u>Singer, MB</u> , Paola, C, Hill, K; <i>Exploring the effects of hydrograph shape on unimodal and bimodal sediment mixtures</i> Eos Trans. AGU, 97(52), Fall Meet. Suppl., Abstract EP21C-0893. American Geophysical Union Fall Meeting	San Francisco, CA	2016
Michaelides, K, <u>Singer, MB</u> , Mudd, SM: The role of stochastic storms on hillslope runoff generation and connectivity in a dryland basin Eos Trans. AGU, 97(52), Fall Meet. Suppl., Abstract H53F-1774. American Geophysical Union Fall Meeting	San Francisco, CA	2016
Singer, MB, *Sargeant, CS; Sub-annual variability in historical water source use by Mediterranean		
riparian trees Séminaire scientifique de l'OHM Vallée du Rhône	Lyon, France	2016
Singer, MB, Harrison, LR, Donovan, PM, Blum, JD, Marvin-DiPasquale, M; Hydrologic indicators of hot spots and hot moments of mercury methylation along river corridors Geosciences Research Abstracts. EGU2016- 5369, EGU General Assembly 2016 European Geosciences Union Annual Meeting	Vienna, Austria	2016
*Evans, CM, Dritschel, D, <u>Singer, MB</u> ; Modelling subsurface hydrology in Mediterranean regions to investigate spatial and temporal trends Geosciences Research Abstracts. EGU2016-1005, EGU General Assembly 2016	TV:	2017
European Geosciences Union Annual Meeting	Vienna, Austria	2016
*Sargeant, CS, Singer, MB; Sub-annual variability in historical water source use by Mediterranean riparian trees Geosciences Research Abstracts. EGU2016-152, EGU General Assembly 2016 European Geosciences Union Annual Meeting	Vienna, Austria	2016
*Slater, LJ, <u>Singer, MB</u> , Kirchner, JW; <i>Hydrologic versus geomorphic drivers of trends in flood hazard</i> (Geosciences Research Abstracts. EGU2016-3284, EGU General Assembly 2016 European Geosciences Union Annual Meeting	(POSTER) Vienna, Austria	2016
Singer, MB, Harrison, L, Blum, JD, Donovan, PM, Marvin-DiPasquale, MC; Geomorphology, hydrology, and the bioavailability of mercury to riverine food webs	vieima, Ausuia	2010

Integrative Sciences and Sustainable Development of Rivers Conference (ISRivers) Lyon, France	2015
Simon, A., <u>Singer, MB</u> ; Flow Energy and Bedload-Transport Efficiency: The Froude Number as a Metric for Bedload Transpor SEDHYD 2015	t Rates Reno, NV	2015
Singer, MB, *Sargeant, CI, Vallet-Coulomb, C, *Evans, C, Bates, CR; Precipitation v. river discharge controls on water availability to riparian trees in the Rhône River Delta (INVITED) Eos Trans. AGU, 95(52), Fall Meet. Suppl., Abstract EP52B-03. American Geophysical Union Fall Meeting	San Francisco, CA	2014
 Singer, MB, Michaelides, K; How is topographic simplicity maintained in ephemeral, dryland channels. Eos Trans. AGU, 95(52), Fall Meet. Suppl., Abstract EP53E-06. American Geophysical Union Fall Meeting 	San Francisco, CA	2014
Michaelides, K, <u>Singer, MB</u> ; Linking rainstorm-driven sediment dynamics to the decadal evolution of grain sizes in dryland basins (INVITED) Eos Trans. AGU, 95(52), Fall Meet. Suppl., Abstract EP53F-07. American Geophysical Union Fall Meeting	San Francisco, CA	2014
*Slater, LJ, <u>Singer, MB</u> , Kirchner, JW; <i>Hydrologic and geomorphic drivers of changing flood hazard</i> (POSTER) Eos Trans. AGU, 95(52), Fall Meet. Suppl., Abstract EP51L-0773. American Geophysical Union Fall Meeting	San Francisco, CA	2014
*Sargeant, CI, Singer, MB; Sub-annual fluctuations in water sources utilised by Mediterranean riparian trees determined through highly resolved oxygen isotope analysis of tree-ring cellulose Eos Trans. AGU, 95(52), Fall Meet. Suppl., Abstract EP53K-07. American Geophysical Union Fall Meeting	San Francisco, CA	2014
*Donovan, PM, Blum, JD, <u>Singer, MB</u> , Marvin-DiPasquale, M, Tsui, MTK; Mercury isotopes in California rivers impacted by historic gold and mercury mining Goldschmidt Conference	Sacramento, CA	2014
*Sargeant, CS, Singer, MB; Isotopic ecohydrology: Insights into water partitioning and availability to riparian forests along the Rhône River, France Tree Rings in Archaeology, Climatology and Ecology (TRACE)	Aviemore, UK	2014
Michaelides, K, <u>Singer, MB</u> ; The impact of rainstorm stochasticity on hillslope sediment supply to river channels in dryland basins Eos Trans. AGU, 94(52), Fall Meet. Suppl., Abstract EP51C-03. American Geophysical Union Fall Meeting	San Francisco, CA	2013
Singer, MB et al.; Bioavailability of mercury to riverine food webs as a function of flood-event inundation channel boundary sediments	of	
Eos Trans. AGU, 94(52), Fall Meet. Suppl., Abstract EP31C-07. American Geophysical Union Fall Meeting	San Francisco, CA	2013
*Slater, LJ, <u>Singer, MB</u> ; Trends in alluvial channel geometry: an indicator of decadal fluctuations in regional sediment supply and local flood risk International Association of Geomorphology	Paris, France	2013
Singer, MB et al.; Floodplain ecohydrology: Discerning climatic v. anthropogenic controls from tree-ring δ18O, dendrochronology, and instrumental climate records Séminaire scientifique de l'OHM Vallée du Rhône	Lyon, France	2013
Singer, MB et al.; Hg availability in river corridors as a function of geomorphic processes of anthropogenic fan evolution International Conference on Mercury as a Global Pollutant	Edinburgh, UK	2013
*Slater, LJ, Singer, MB; Evolution of channel capacity and its impact on flood frequency International Conference on Fluvial Sedimentology	Leeds, UK	2013
*Higson, JL, <u>Singer, MB</u> ; The impact of stream hydrology on sediment supply from terrace erosion		

International Conference on Fluvial Sedimentology	Leeds, UK	2013
Trigg, MA, Schuman, GJP, <u>Singer, MB</u> , Bates, PD, Hall, AC; Observations of Amazon floodplain channel dynamics using Landsat images and ICES at elevations AGU Meeting of the Americas	Cancun, Mexico	2013
Aalto, R, Marquard, J, Singer, MB; Fingerprinting legacy sediment with novel geochemical tracers: case studies from mill ponds and anthropogenic fans American Association of Geographers Annual Meeting	Los Angeles, CA	2013
Singer, MB, Piégay, H, Stella, JC, Wilson, R; Floodplain ecohydrology: Discerning climatic v . anthropogenic controls from tree-ring δ^{18} O, dendrochronology, and instrumental climate records		
Eos Trans. AGU, 93(52), Fall Meet. Suppl., Abstract EP41H-04. American Geophysical Union Fall Meeting	San Francisco, CA	2012
*Higson, JL, <u>Singer, MB</u> ; Partitioning modes and rates of sediment flux derived from terrace-channel coupling (POSTER) Eos Trans. AGU, 93(52), Fall Meet. Suppl., Abstract EP31A-0798. American Geophysical Union Fall Meeting	San Francisco, CA	2012
*Slater, LJ, <u>Singer, MB</u> ; Contrasting responses of alluvial channels to climate change (conterminous United States, 1950-2011 Integrative Sciences and Sustainable Development of Rivers Conference (ISRivers) Lyon, France	2012
Singer, MB, Dufour, S, Stella, JC, Piégay, H, Johnstone, L*, Wilson, R; Contrasts in growth and water sources in co-occurring Mediterranean riparian tree species: Evidence from tree ring isotopes and dendrochronology (POSTER) Eos Trans. AGU, 92(52), Fall Meet. Suppl., Abstract H11E-1097. American Geophysical Union Fall Meeting	San Francisco, CA	2011
*Slater, LJ, Singer, MB; Impact of climate change on river beds: Continental USA, 1950-2005 Eos Trans. AGU, 92(52), Fall Meet. Suppl., Abstract EP31A-0733. American Geophysical Union Fall Meeting	San Francisco, CA	2011
Singer, MB, James, LA, Ghoshal, S*, Kilham, N*, Higson, J*, Aalto, R; Eroding toxic fan: Legacy of 19th century gold mining in California (POSTER) International Conference on Mercury as a Global Pollutant	Halifax, Canada	2011
*McKelvey, H, Singer, MB, Piégay, H; Histories of local v. regional hydrology as recorded by tree ring isotopes and dendrochronology HydroEco2011	Vienna, Austria	2011
Higson, J, Singer, MB, James, LA, Ghoshal, S; Evolution of a toxic fan: lessons from the Yuba River, California (POSTER) Geosciences Research Abstracts. EGU2011-3126, EGU General Assembly 2011 European Geosciences Union Annual Meeting	Vienna, Austria	2011
*Slater, LJ, <u>Singer, MB</u> ; <i>Impacts of dams on river bed elevation in the continental</i> USA, 1950-2010 (POSTER) Advances in River Science 2011	Swansea, UK	2011
Singer, MB; Transient response in longitudinal grain size to reduced gravel supply in a	,	
large river Eos Trans. AGU, 91(52), Fall Meet. Suppl., Abstract EP52A-08. American Geophysical Union Fall Meeting	San Francisco, CA	2010
Michaelides, K, <u>Singer, MB</u> ; What controls sediment flux in dryland channels? (POSTER) Eos Trans. AGU, 91(52), Fall Meet. Suppl., Abstract EP31A-0733. American Geophysical Union Fall Meeting	San Francisco, CA	2010
Singer, MB; Transient response in longitudinal grain size to reduced sediment supply in a large river (POSTER)		

Geosciences Research Abstracts. Vol. 12, EGU2010-6674-1, EGU General Assembly 2010 European Geosciences Union Annual Meeting	Vienna, Austria	2010
Michaelides, K, Singer, M, G. Martin; Controls of hillslope-channel coupling on bed material grain size in a semi-arid catchment (POSTER) Geosciences Research Abstracts. Vol. 12, EGU2010-15612, EGU General Assembly 2010, European Geosciences Union Annual Meeting	Vienna, Austria	2010
*Tena, A, Singer, MB, Batalla, RJ; Sediment routing modelling: The use of FLUVIAL-12 to evaluate and re-design flushing flows in the lower Ebro (POSTER) Geosciences Research Abstracts. Vol. 12, EGU2010-11767, EGU General Assembly 2010, European Geosciences Union Annual Meeting	Vienna, Austria	2010
James, LA, Ghoshal, S*, <u>Singer, MB</u> , Aalto, R; <i>Channel and floodplain metamorphosis following an aggradation-degradation episode</i> American Association of Geographers Annual Meeting	Washington, DC	2010
Singer, MB; Hydraulic controls on bed material grain size (POSTER) Eos Trans. AGU, 90(52), Fall Meet. Suppl., Abstract EP21B-0587. American Geophysical Union Fall Meeting	San Francisco, CA	2009
Will, M, Aalto, RE, Singer, MB, Fuchs, M; Evolution and flooding history of the Sacramento River over the late Quaternary illustrated on pristine floodplains near Chico, California (POSTER) Eos Trans. AGU, 90(52), Fall Meet. Suppl., Abstract EP41C-0628. American Geophysical Union Fall Meeting	San Francisco, CA	2009
*Kilham, N, Singer, MB; Controls of hydrograph shape on floodplain sedimentation during major floods (POSTER) Geological Society of America Abstracts with Programs, Vol. 41(7): 132 GSA Annual Meeting	Portland, OR	2009
Singer, MB; Downstream patterns of bed material grain size in a large, lowland alluvial river subject to low sediment supply (POSTER) Geophysical Research Abstracts. Vol. 11, EGU2009-3947, 2009, EGU General Assembly 2009, European Geosciences Union Annual Meeting	Vienna, Austria	2009
Singer, MB, James, LA, Aalto, R; Episodic fan dissection: Insights from total mercury concentrations on transport and storage of legacy gold mining sediments in California Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract H51J-05 American Geophysical Union Fall Meeting	San Francisco, CA	2008
Aalto, R, Singer, MB; Floodplain development in engineered and natural settings determined with novel, high resolution 210-Pb geochronology: Insights from sedimentation studies along the lower Sacramento River, California Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract H51J-03 American Geophysical Union Fall Meeting	San Francisco, CA	2008
James, LA, <u>Singer, MB</u> , Aalto, R; <i>Legacy morphologies: Channel avulsions and historical engineering structures drive form and process in the Lower Yuba and Feather Rivers, California</i> Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract H52C-01 American Geophysical Union Fall Meeting	San Francisco, CA	2008
Singer, MB, James, LA, Aalto, R; Insights from total mercury concentrations on transport and storage of legacy gold mining sediments in California. British Society for Geomorphology Meeting	Exeter, UK	2008
*Kilham, N, Singer, MB, Aalto, R; Floodplain sedimentation on the Feather River, California. (POSTER) British Society for Geomorphology Meeting	Exeter, UK	2008
Singer, MB; Downstream patterns of bed-material grain size in a large, lowland alluvial river subject to low sediment supply. Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract H53L-05		

American Geophysical Union Fall Meeting	San Francisco, CA	2007
Silveira, J, Schlorff, R, Henderson, A, Ross, B, Singer, M; Bank swallow population and habitat trends along the Sacramento River, Red Bluff to Colusa. Riparian Habitat Joint Venture Conference: Integrating Riparian Habitat Conservation & Flood Management in California	Sacramento, CA	2007
James, LA, Ghoshal, S*, Megison, ME, <u>Singer, MB</u> , Aalto, R; <i>Legacy sediments and channel morphology in the Feather and Yuba Rivers. Eos Trans.</i> AGU, 88(52), Fall Meet. Suppl., Abstract H51E-0281 American Geophysical Union Fall Meeting	San Francisco, CA	2007
*Ghoshal, S, James, A, <u>Singer, M</u> , Aalto, R; <i>Channel morphological changes in the Yuba River, California, in the post-hydraulic mining period. Eos Trans.</i> AGU, 88(52), Fall Meet. Suppl., Abstract H51E-0280 American Geophysical Union Fall Meeting	San Francisco, CA	2007
James, LA, <u>Singer, MB</u> , Aalto, R, Ghoshal, S*; Floodplain and channel evolution following catastrophic sedimentation: Early and on-going river-basin management in the west. Geological Society of America Annual Meeting	Denver, CO	2007
Singer, MB; Flood risk in the Sacramento Valley: The status of a creaky, yet functional, flood control system. American Association of Geographers Annual Meeting	San Francisco, CA	2007
Singer, MB; Downstream patterns of bed-material grain size in the Sacramento River and implications for habitat. Sacramento River Restoration Science Conference	Chico, CA	2007
 Singer, MB, Aalto, R; Floodplains and sedimentation patterns and processes in a changing basin: Case study Sacramento Valley. Eos Trans. AGU, 87(52), Fall Meet. Suppl., Abstract H13I-06 American Geophysical Union Fall Meeting 	San Francisco, CA	2006
Singer, MB, Aalto, R; Event-based washload transport and sedimentation in and around flood bypasses: Case study from the Sacramento Valley, California. CALFED Science Conference	Sacramento, CA	2006
Singer, MB, Cepello, S, Henderson, A; An apparatus for bed material sediment extraction from coarse river beds in large alluvial rivers. Federal Interagency Sedimentation Conference	Reno, NV	2006
Ghoshal, ., James, LA, <u>Singer, MB</u> , Aalto, R; <i>Erosion of hydraulic mining sediment and channel change: Sacramento Valley, California.</i> (POSTER) Binghamton Geomorphology Symposium	Columbia, SC	2006
Singer, MB, Henderson, A, Cooper, J, Cepello, S; <i>An apparatus for bed material sediment extraction from coarse river beds in large alluvial rivers.</i> (POSTER) <i>Eos Trans.</i> AGU, 86(52), Fall Meet. Suppl., Abstract H53B-0460 American Geophysical Union Fall Meeting	San Francisco, CA	2005
Singer, MB, Aalto, R; Event-based washload transport and sedimentation in and around flood bypasses: Case study from the Sacramento Valley, California. (POSTER) Eos Trans. AGU, 86(18), Jt. Assem. Suppl., Abstract H33A-09 Joint Assembly (American Geophysical Union Spring Meeting)	New Orleans, LA	2005
*Springborn, M, Singer, MB, Dunne, T; A mass balance of total mercury flux through a large, managed floodplain. (POSTER) Eos Trans. AGU, 86(18), Jt. Assem. Suppl., Abstract H13A-08 Joint Assembly (American Geophysical Union Spring Meeting)	New Orleans, LA	2005
Singer, MB; Influence of major dams on hydrographs through a river network: Examples from the Sacramento Valley, California. (POSTER) CALFED Science Conference	Sacramento, CA	2004
Singer, MB; Influence of major dams on hydrographs through a river network: Examples from the Sacramento Valley, California. (POSTER) Assessing and Re-naturalizing Streams Impacted By Dams and Dam		

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Singer, M. (Vitae)

Removal, U. Montana Center for Riverine Science and Stream Re-naturalization	Missoula, MT	2004
Singer, MB; Influence of major dams on hydrographs through a river network: Examples from the Sacramento Valley, California. (POSTER) International Geological Congress	Florence, Italy	2004
Singer, MB; Downstream patterns of bed-material grain size in a large, lowland alluvial river. (POSTER), British Geomorphological Research Group Annual Conference	Glasgow, UK	2004
Singer, MB, Dunne, T, Aalto, R, Nittrouer, CA, Nittrouer, J; Event-based sedimentation in a flood bypass: examples from the Sacramento Valley, California. (POSTER) Eos Trans. AGU, 84(46), Fall Meet. Suppl., Abstract H52A-1177 American Geophysical Union Fall Meeting	San Francisco, CA	2003
Singer, MB, Dunne, T; Stochastic assessment of decadal patterns in Sacramento River bed material transport. Association of American Geographers Annual Meeting	New Orleans, LA	2003
Singer, MB, Dunne, T; Long-term stochastic assessment of gravel augmentation strategies in the Sacramento River. CALFED Science Conference	Sacramento, CA	2003
Singer, MB, Dunne, T; Stochastic analysis of sediment flux in the context of river management.		
Eos Trans. AGU, 83(47), Fall Meet. Suppl., Abstract H71F-06, 2002 American Geophysical Union Fall Meeting	San Francisco, CA	2002
Singer, MB, Dunne, T; An empirical-stochastic, event-based model for simulating synchronous inflow from a tributary network: Application to the Sacramento River basin, California. (POSTER) Paleofloods, Historical Data & Climatic Variability	Barcelona, Spain	2002
Singer, MB, Dunne, T; Developing a stochastic streamflow generation model based on an extensive historical record in an altered fluvial system. (POSTER) Eos Trans. AGU, 82(47), Fall Meet. Suppl., Abstract H21C-0311 American Geophysical Union Fall Meeting	San Francisco, CA	2001
Singer, MB, Dunne, T; Development of an empirical-stochastic, event-based model for simulating synchronous basinvide streamflow. International Assoc. of Geomorphology	Tokyo, Japan	2001
Singer, MB, Dunne, T; Identifying erosional and depositional reaches in the Sacramento River, California by analysis of suspended-sediment transport. Association of American Geographers Annual Meeting	New York, NY	2001
Singer, MB, Dunne, T; Sediment transport in the Sacramento River, California: Considerations for channel morphology and ecological restoration.		
International Conference on Large Rivers & Remote Sensing	Singapore	2000
Singer, MB, Dunne, T; Suspended mass balance for the Sacramento River, California: A times series approach. Int'l Conf. on Drainage Basin Dynamics and Morphology	Jerusalem, Israel	1999
VOLUNTEER SERVICE	•	
Committee Member, Clifton College Equality, Diversity, Inclusion, Belonging Committee Pod Member, Unlearning Racism in the Geosciences, EARTH, Cardiff UK Sound Producer, KALX College Radio Station, Berkeley, California Tutor/Mentor, Lafayette School Mentoring Project, Oakland, California. Soil Conservationist, U.S. Peace Corps & Ministry of Forests and Soil Conservation, Ne Laboratory Assistant, Berkeley Geochronology Laboratory, Berkeley, California. Wildlife Care Assistant, PAWS Olympic Wildlife Center, Olympia, Washington. Assistant Zookeeper, Audobon Zoological Gardens, New Orleans, Louisiana. Tutor, Tulane University Community Action Prison Project, New Orleans, Louisiana.		2021-2022 2021 2004-2007 2000-2002 1994-1996 1994 1992 1990-1991

Certified Mediator (training in May2022)	
London School of Mediation, International Mediation Institute	2022
Certified Professional Hydrologist-Surface Water, Cert#: 18-H-9002	
American Institute of Hydrology	2017
Participant in 'Teaching Geomorphology in the 21st Century' Workshop,	
United States National Science Foundation	2008
Fluency in Spanish and Nepali languages.	
Technical Software and Languages: MATLAB, HEC-RAS, HEC-HMS, FLUVIAL-12, ArcGIS, UNIX, Adobe	
Creative Suite. ProTools.	

PROFESSIONAL MEMBERSHIPS

American Geophysical Union American Institute of Hydrology American Association of Geographers International Association of Hydrological Sciences British Society for Geomorphology British Hydrological Society