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EDUCATION

The Johns Hopkins University. PhD, Geography and Environmental Engineering 1988.

University of California at Santa Cruz. MS, Earth Sciences 1982.

Princeton University. AB *cum laude*, Geology 1978.

PROFESSIONAL EXPERIENCE

Professor of Environmental Planning & Geography, University of California at Berkeley (faculty member 1988-present)

Co-Director Global Metropolitan Studies, 2018-present; Chair, Center for Portuguese Studies, 2001-2018

Chair, Faculty of College of Environmental Design, and Director Sustainable Environmental Design major: 2015-2017

Chair, Department of Landscape Architecture and Environmental Planning: Jan 2011-Dec 2013

Instructor shortcourse *Geomorphic and Ecological Fundamentals of River Restoration*, Truckee, California (1995-present)

Consultant to various government and international agencies, 1980-present.

Expert witness before the US Supreme Court, Washington DC, re: Apalachicola River, Florida-Georgia, 2015-2017

Expert witness before the International Court of Justice, the Hague, re: Rio San Juan, Nicaragua-Costa Rica, 2012-2017

Expert witness before the International Court of Arbitration, the Hague, re: Kishenganga River, India-Pakistan 2012-2013

SERVICE ON GOVERNMENT ADVISORY BOARDS

Member International Scientific Board, Ecole Universitaire de Recherche des Sciences de l'Eau et Hydrosystèmes, 2019

Member Upper Truckee Marsh Technical Resource Committee, for California Tahoe Conservancy, 2016-present.

Chair Independent Science Review Panel for the Russian River, 2012-2017

Member Platte River Recovery Implementation Program Peer Review Panel, 2014-2015

Member Independent External Peer Review Committee for the Agency Technical Review, Greater Mississippi Basin Post-Flood Assessment, US Army Corps of Engineers, 2012-2015

Member Nat. Research Council Committee on Strategic Research for Integrated Water Resources Management 2012-2013

Member National Research Council Committee on Hydrology, Ecology, & Fishes of Klamath River Basin, 2006-2007

Member Environmental Advisory Board to the Chief of the US Army Corps of Engineers 2002-2007

Member Science Board for the CALFED Ecosystem Restoration Program, 1999-2005

RECENT PUBLICATIONS

>16,000 Google scholar citations; H index 56

Publications selected from over 200 journal articles, books, book chapters:

Loire, R, H Piégay, J-R Malavoi, GM Kondolf, G Melun. 2020. Les lâchers morphogènes depuis un barrage justification opérationnelle et protocole d'intervention. *La Houille Blanche* 2020 (3): 66–75. <https://doi.org/10.1051/lhb/2020030>

Schmitt RJP, N Kittner, GM Kondolf, D Kammen. 2019. Deploy diverse renewables to save tropical rivers. *Nature* 569, 330-332 (2019) doi: 10.1038/d41586-019-01498-8

Pinto, PJ, GM Kondolf. The fit of urban waterfront interventions: matters of size, money and function. *Sustainability* 12: 4079; doi:10.3390/su12104079

Staentzel, C, GM Kondolf, L Schmitt, I Combroux, A Barillier, J-N Beisel. 2019. Restoring fluvial forms and processes by gravel augmentation or bank erosion below dams: A systematic review of ecological responses. *Science of the Total Environment* 706: 135743. <https://doi.org/10.1016/j.scitotenv.2019.135743>

Kondolf, GM, R Loire, H Piegay, and JR Malavoi. 2019. Dams and Channel Morphology. Chapter 8 pp.143-162 in *Environmental Flow Assessment: methods and applications*, JG Williams, PB Moyle, A Webb, and GM Kondolf (eds), John Wiley & Sons.

Kondolf, GM. 2019. Flow in streams. Chapter 3 pp. 21-38 in *Environmental Flow Assessment: methods and applications*, JG Williams, PB Moyle, A Webb, and GM Kondolf (eds), John Wiley & Sons (in press)

- Schmitt, R, S Bizzi, AF Castelletti, J Opperman, GM Kondolf. 2019. Planning dam portfolios for low sediment trapping shows limits on sustainable hydropower in the Mekong. *Science Advances* 5: eaaw2175.
- Bosselmann, P, M Kondolf, P Webb (Translator for Chinese text: LI Shiyao) 2019. An Island in Transition: Adaptation of Urban Form. *Landscape Architecture* (published by Beijing Forestry University), 09/2019. 26: 45-56.
- Wantzen, KM, CB Mascarenhas Alves, SD Badiane, R Bala, M Blettler, M Callisto, Y Cao, M Kolb, GM Kondolf, M Fernandes Leite, DR Macedo, O Mahdi, M Neves, M Elfritzson Peralta, V Rotgé, G Rueda-Delgado, A Scharager, A Serra-Llobet, J-L Yengué, and A Zingraff-Hamed. 2019. Urban Stream and Wetland Restoration in the Global South—A DPSIR Analysis. *Sustainability* 11, 4975; doi:10.3390/su11184975.
- Johnson, MF, C Thorne, J Castro, GM Kondolf, C Searles Mezzacano, SB Rood, C Westbrook. 2019. Biomic river restoration: a new focus for river management and restoration. *River Research and Applications* DOI: 10.1002/rra.3529
- Pinter, N, J Brasington, A Gurnell, GM Kondolf, K Tockner, G Wharton, SM Yarnell. 2019. River research and applications across borders. *River Research & Applications*. 2019:1-8. DOI: 10.1002/rra.3430
- Oeurng, C, TA Cochrane, S Chung, GM Kondolf, T Piman, ME Arias. 2019. Assessing climate change impacts on river flows in the Tonle Sap Lake basin, Cambodia. *Water* 11, 618; doi:10.3390/w11030618
- Rubin, Z, B Rios-Touma, GM Kondolf, ME Power, P Saffarinia, and J Natali. 2019. Using prey availability to evaluate Lower Colorado River riparian restoration. *Restoration Ecology* 27(1): 46–53 <https://doi.org/10.1111/rec.12829>
- Shi, S, GM Kondolf, and D Li. 2018. Urban river transformation and the landscape garden city movement in China. *Sustainability* 10(11), 4103; <https://doi.org/10.3390/su10114103>
- Pinto, PJ, GM Kondolf, and PL Wong. 2018. Adapting to sea-level rise: emerging governance issues in the San Francisco Bay region. *Environmental Science and Policy* 90: 27-38. <https://doi.org/10.1016/j.envsci.2018.09.015>
- Wang, H-W, GM Kondolf, D Tullos, and W-C Kuo. 2018. Sediment management in Taiwan's reservoirs and barriers to implementation. *Water* 10(8), 1034; doi:[10.3390/w10081034](https://doi.org/10.3390/w10081034)
- Schmitt, RJP, S Bizzi, A Castelletti, & GM Kondolf. 2018. Improved trade-offs of hydropower and sand connectivity by strategic dam planning in the Mekong. *Nature Sustainability* 1: 96–104 doi:10.1038/s41893-018-0022-3
- Kondolf, GM, A Farahani. 2018. Sustainably managing reservoir storage: ancient roots of a modern challenge. *Water* 10, 117. <https://doi.org/10.3390/w10020117>
- Serra-Llobet A, Kondolf GM, Schaefer K, Nicholson S. (eds) 2018. *Managing flood risk: innovative approaches from big floodplain rivers and urban streams*. Palgrave Macmillan, UK.
- Kondolf, GM, RJP Schmitt, P Carling, S Darby, M Arias, S Bizzi, A Castelletti, T Cochrane, S Gibson, M Kummu, C Oeurng, Z Rubin, and T Wild. 2018. Changing sediment budget of the Mekong: Cumulative threats and management strategies for a large river basin. *Science of the Total Environment* 625:114–134
- Schmitt, RJP, S Bizzi, A Castelletti, & GM Kondolf. 2018. Stochastic modeling of sediment connectivity for reconstructing sand fluxes and origins in the unmonitored Se Kong, Se San, and Sre Pok tributaries of the Mekong River. *J. Geophys. Res. Earth Surf.* 123 (1): 2–25. DOI: 10.1002/2016JF004105
- Kondolf GM, P Lopez-Llompert. 2018. National-local land-use conflicts in floodways of the Mississippi River system. *Environmental Science* 5(1): 47-63. DOI: 10.3934/environsci.2018.1.47
- Kondolf, GM, P Pinto. 2017. The social connectivity of urban rivers. *Geomorphology* 277:182-196. <http://dx.doi.org/10.1016/j.geomorph.2016.09.028>
- Kondolf, GM, and H Piégay, eds. 2016. *Tools in fluvial geomorphology, second edition*. John Wiley & Sons, UK.

Pinto, PJ, and GM Kondolf. 2016. Evolution of two urbanized estuaries: environmental change, legal framework, and implications for sea-level rise vulnerability. *Water* 8:535 doi:10.3390/w8110535

Lopez-Llombart, P, and GM Kondolf. 2015. Encroachments in floodways of the Mississippi River and Tributaries Project. *Natural Hazards* DOI: 10.1007/s11069-015-2094-y

Rubin, Z, GM Kondolf, B Rios-Touma. 2017. Evaluating Stream Restoration Projects: What Do We Learn from Monitoring? *Water* 9, 174; doi:10.3390/w9030174. Online at <http://www.mdpi.com/2073-4441/9/3/174>

Schmitt, RJP, Z Rubin, GM Kondolf. 2017. Losing ground - scenarios of land loss as consequence of shifting sediment budgets in the Mekong Delta. *Geomorphology* 294: 58–69.

Piégay, H., G.M. Kondolf, J.T. Minear, L. Vaudor. 2015. Trends in publications in fluvial geomorphology over two decades: A truly new era in the discipline owing to recent technological revolution? *Geomorphology* 248: 489–500.

Ock, G., D. Gaeuman, J. McSloy, and G.M. Kondolf. 2015. Ecological functions of restored gravel bars, the Trinity River, California. *Ecological Engineering* 83:49-60. <http://dx.doi.org/10.1016/j.ecoleng.2015.06.005>

Beagle, J.R., G.M. Kondolf, L. Marcus, and R.M. Adams. 2015. Anticipatory management for instream habitat: application to Carneros Creek, California. *River Research and Applications*. DOI: 10.1002/rra.2863

Rubin, Z.K., G.M. Kondolf, and P. Carling. 2014. Anticipated geomorphic impacts from Mekong basin dam construction. *International Journal of River Basin Management* DOI: 10.1080/15715124.2014.981193

Kondolf, G.M., Z.K. Rubin, J.T. Minear. 2014. Dams on the Mekong: Cumulative sediment starvation. *Water Resources Research* 50, doi:10.1002/2013WR014651.

Rios-Touma, B., C. Prescott, S. Axtell, and G.M. Kondolf. 2014. Habitat restoration in the context of watershed prioritization: the ecological performance of urban streams restoration projects in Portland, OR. *River Research and Applications* DOI: 10.1002/rra.2769

Kondolf, G.M., Y. Gao, G.W. Annandale, G.L. Morris, E. Jiang, R. Hotchkiss, P. Carling, B. Wu, J. Zhang, C. Peteuil, H-W. Wang, C. Yongtao, K. Fu, Q. Guo, T. Sumi, Z. Wang, Z. Wei, C. Wu, C.T. Yang. 2014. Sustainable sediment management in reservoirs and regulated rivers: experiences from five continents. *Earth's Future* doi: 10.1002/ef2 2013EF000184

Kondolf, G.M., K. Podolak, and T.E. Grantham. 2013. Restoring Mediterranean-climate rivers. *Hydrobiologia* 719:527-545. DOI 10.1007/s10750-012-1363-y

Deitch, M.J., and G. M. Kondolf. 2012. Consequences of variations in magnitude and duration of an instream environmental flow threshold across a longitudinal gradient. *Journal of Hydrology* 420–421: 17–24.

Ludy, J. and G.M. Kondolf. 2012. Flood risk perception in lands ‘protected’ by 100-year levees. *Natural Hazards* 61(2):829-842. DOI: 10.1007/s11069-011-0072-6

LANGUAGES & COUNTRY EXPERIENCE

Languages: English (native), French (fluent), Spanish (basic), Experience: Cambodia, China, Ecuador, Egypt, France, Laos, Morocco, Nicaragua, Nigeria, Portugal, Spain, Switzerland, UK, US, Vietnam.

RECENT AWARDS

EURIAS Fellowship Programme and the European Commission (Marie-Sklodowska-Curie Actions - COFUND Programme - FP7), Senior Research Fellow, Institute for Advanced Studies, Lyon, 2017-2018

Landscape Architecture Foundation, Washington DC, Fellow, 2013

Institute for Water Resources, US Army Corps of Engineers, Washington DC, Clarke Scholar, 2011.

Council of Educators in Landscape Architecture. Award of Distinction, 2007.