

## G. MATHIAS KONDOLF, PhD

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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-present  
Chair, Faculty of College of Environmental Design, and Director Sustainable Environmental Design: 2015-2017  
Chair, Department of Landscape Architecture and Environmental Planning: Jan 2011-Dec 2013  
*Consultant* to various government and international agencies, 1980-present.  
*Expert witness* before the US Supreme Court, Washington DC, re: Apalachicola River, Florida-Georgia, 2015-2016  
*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* 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

### PUBLICATIONS *selected from over 200 journal articles, books, book chapters, and technical reports*

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. 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

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-Llombart. 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, 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-Llompert, P, and GM Kondolf. 2015. Encroachments in floodways of the Mississippi River and Tributaries Project. *Natural Hazards* DOI: 10.1007/s11069-015-2094-y
- 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
- Minear, T. and G.M. Kondolf. 2009. Estimating reservoir sedimentation rates at large spatial- and temporal-scales: a case study of California. *Water Resources Research* 45, W12502, doi:10.1029/2007WR006703

## **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.