# 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, 2001-2018
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-CostaRica, 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 2019-21
***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

*20,000 Google scholar citations; H index 61, Publications selected from over 200 journal articles, books & chapters:*


Kondolf, GM. et al. 2022. Save the Mekong Delta from drowning. *Science* 376(6593):583-585.

Kondolf, GM, J Yi. 2022. Dam renovation to prolong reservoir life and mitigate dam impacts. *Water 14*(9), 1464

Serra-Llobet A, et al. (2022) Restoring Rivers and Floodplains for Habitat and Flood Risk Reduction: Experiences in Multi-Benefit Floodplain Management From California and Germany. *Front. Environ. Sci*. 9:778568.

Serra-Llobet, A, GM Kondolf, F Magdaleno, D Keenan-Jones. 2022. Flood diversions and bypasses: benefits and challenges. *WIRES Water* 2022;9:e1562, https://doi.org/10.1002/wat2.1562

Kondolf, GM, G Descombes, A Zingraff-Hamed. 2021. Restoring dynamic fluvial processes in urban rivers: learning from the Isar and Aire Rivers. *Landscape Architecture Frontiers* 9(4): 10-27 https://journal.hep.com.cn/laf/EN/10.15302/J-LAF-1-020051

Schmitt, RJP, N Kittner, GM Kondolf, DM Kamman. 2021. Joint strategic energy and river basin planning to reduce dam impacts on rivers in Myanmar. *Environmental Research Letters*.

Loire, R, H Piégay, J-R Malavoi, GM Kondolf, and LA Bêche. From flushing flows to eco-geomorphic flow releases: evolving terminology, practice, and integration into regulated river management. *Earth Science Reviews* 213: 103475

Rios-Touma, B, GM Kondolf, and SP Walls. 2020. Impacts of sediment derived from erosion of partially-constructed road on aquatic organisms in a tropical river: the Río San Juan, Nicaragua and Costa Rica. *PLoSONE*

Pinto, PJ, GM Kondolf. 2020. The fit of urban waterfront interventions: matters of size, money and function. *Sustainability* 12: 4079; doi:10.3390/su12104079

Wantzen, KM, et al. 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

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.

Kondolf, GM, A Farahani. 2018. Sustainably managing reservoir storage: ancient roots of a modern challenge. *Water* 10, 120.

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

Kondolf GM, P Lopez-Llompart. 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.

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.

Kondolf, GM, Y Gao, GW Annandale, GL 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, CT Yang. 2014. Sustainable sediment management in reservoirs and regulated rivers: experiences from five continents. *Earth's Future* doi: 10.1002/eft2 2013EF000184

**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**

*Aspen Italia Institute Award* for collaborative research (US-Italy) on hydropower and connectivity in the Mekong 2021
*EURIAS Fellowship Programme*, 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.