

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, Jan-June 2023 (interim)

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 2019-21

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

>26,000 Google scholar citations; H index 70, Publications selected from over 200 journal articles, books & chapters:

Kondolf, G.M., Herbert, B., Dodd, A. and Serra-Llobet, A., 2025. Flood Control in Jackson, Mississippi: A Missed Opportunity to Reduce Inequitable Flooding Impacts? *Water* (20734441), 17(4).

Yi, S. and GM Kondolf. 2024. Environmental planning and the evolution of inter-basin water transfers in the United States. *Frontiers in Environmental Science*. 12:1489917. doi: 10.3389/fenvs.2024.1489917

Chua, S.D.X., Yang, Y., Kondolf, G.M., Oeurng, C., Sok, T., Zhang, S. and Xixi, L. 2024. Can restoring water and sediment fluxes across a mega-dam cascade alleviate a sinking river delta? *Science Advances*, 10(18), p.eadn9731.

Zhang, L. and Kondolf, G.M., 2024. Ponds and wetlands landscapes of flood management in the cities of the Lower Yellow River Floodplain—the case of Huaiyang, China. *Water*, 16(5), p.703.

Serra-Llobet, A., Radke, J., Kondolf, G.M., Gurrola, L., Lindbergh, S. and Douvinet, J. 2023. Floods after fires: A history informed hazard planning approach applied to the 2018 debris flows, Montecito, California. *Frontiers in Environmental Science*, 11, p.1183324.

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. *PLoS ONE*
- 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-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.
- 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/ef2 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

Council of Educators in Landscape Architecture. Excellence in Research/Creative Work Award, 2026

American Society Landscape Architects Honor Award for student project *Working with Beavers* (faculty advisor) 2025

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.