

Stanford

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Bio

ACADEMIC APPOINTMENTS

- Sr Research Engineer, Stanford Woods Institute for the Environment

Publications

PUBLICATIONS

- **Global expansion of sustainable irrigation limited by water storage.** *Proceedings of the National Academy of Sciences of the United States of America*
Schmitt, R. J., Rosa, L., Daily, G. C.
2022; 119 (47): e2214291119
- **Modeling multiple ecosystem services and beneficiaries of riparian reforestation in Costa Rica** *ECOSYSTEM SERVICES*
Langhans, K. E., Schmitt, R. P., Chaplin-Kramer, R., Anderson, C. B., Vargas Bolanos, C., Vargas Cabezas, F., Dirzo, R., Goldstein, J. A., Horangic, T., Miller Granados, C., Powell, T. M., Smith, J. R., Alvarado Quesada, et al
2022; 57
- **Floating solar power: evaluate trade-offs** *NATURE*
Almeida, R. M., Schmitt, R., Grodsky, S. M., Flecker, A. S., Gomes, C. P., Zhao, L., Liu, H., Barros, N., Kelman, R., McIntyre, P. B.
2022; 606 (7913): 246-249
- **Strategic planning of hydropower development: balancing benefits and socioenvironmental costs** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*
Almeida, R. M., Schmitt, R. P., Castelletti, A., Flecker, A. S., Harou, J. J., Heilpern, S. A., Kittner, N., Kondolf, G., Opperman, J. J., Shi, Q., Gomes, C. P., McIntyre, P. B.
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- **Restoring Rivers and Floodplains for Habitat and Flood Risk Reduction: Experiences in Multi-Benefit Floodplain Management From California and Germany** *FRONTIERS IN ENVIRONMENTAL SCIENCE*
Serra-Llobet, A., Jaehrig, S. C., Geist, J., Kondolf, G., Damm, C., Scholz, M., Lund, J., Opperman, J. J., Yarnell, S. M., Pawley, A., Shader, E., Cain, J., Zingraff-Hamed, et al
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- **Nature-based solutions for flood risk reduction: A probabilistic modeling framework** *ONE EARTH*
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2021; 4 (9): 1310-1321
- **Sediment transport at the network scale and its link to channel morphology in the braided Vjosa River system** *EARTH SURFACE PROCESSES AND LANDFORMS*
Bizzi, S., Tangi, M., Schmitt, R. P., Pitlick, J., Piegay, H., Castelletti, A.
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- **Strategic basin and delta planning increases the resilience of the Mekong Delta under future uncertainty** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Schmitt, R. P., Giuliani, M., Bizzi, S., Kondolf, G. M., Daily, G. C., Castelletti, A.
2021; 118 (36)

- **Joint strategic energy and river basin planning to reduce dam impacts on rivers in Myanmar** *ENVIRONMENTAL RESEARCH LETTERS*
Schmitt, R. P., Kittner, N., Kondolf, G., Kammen, D. M.
2021; 16 (5)
- **Modeling seasonal water yield for landscape management: Applications in Peru and Myanmar.** *Journal of environmental management*
Hamel, P., Valencia, J., Schmitt, R., Shrestha, M., Piman, T., Sharp, R. P., Francesconi, W., Guswa, A. J.
2020; 270: 110792
- **Impacts of current and future large dams on the geographic range connectivity of freshwater fish worldwide.** *Proceedings of the National Academy of Sciences of the United States of America*
Barbarossa, V. n., Schmitt, R. J., Huijbregts, M. A., Zarfl, C. n., King, H. n., Schipper, A. M.
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- **The CASCADE toolbox for analyzing river sediment connectivity and management** *ENVIRONMENTAL MODELLING & SOFTWARE*
Tangi, M., Schmitt, R., Bizzi, S., Castelletti, A.
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- **Deploy diverse renewables to save tropical rivers** *NATURE*
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