

## Curriculum Vitae

### PAOLO D'ODORICO

*Professor of Hydrology*  
*Department of Environmental Science, Policy, and Management,*  
*University of California, Berkeley*  
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#### Education

May 1998                      Ph.D., Hydraulic Engineering, University of Padova, Italy.  
March 1994                    M.S. (Laurea), Civil Engineering, University of Padova, Italy.

#### Academic Appointments

2016-                      Professor of Hydrology, Department of Environmental Science Policy, Management, University of California, Berkeley, CA, USA.  
2010-2016                  Ernest H. Ern Professor of Environmental Sciences, University of Virginia, Charlottesville VA, USA.  
2015                        Sabbatical Fellow, National Center for Social Environmental Synthesis, University of Maryland USA.  
2011                        Visiting Professor, Ecole Polytechnique Fédérale de Lausanne – EPFL – Lausanne, Switzerland.  
2006-2010                Associate Professor, Department of Environmental Sciences, University of Virginia, USA.  
2001-2006                Assistant Professor, Department of Environmental Sciences, University of Virginia, USA.  
1999-2001                Assistant Professor, Department of Civil Engineering, Texas A&M University, College Station, USA.  
1999                        Research Associate, Department of Civil and Environmental Engineering, Princeton University, USA.  
1997-1998                Research Associate, Department of Civil Engineering, Texas A&M University, College Station, USA.

#### Honors and Awards

2016                        *Paul Witherspoon Lecture*, American Geophysical Union.  
2016                        *Fellow*, American Geophysical Union.  
2013                        *Maury-Tice Environmental Prize*, Dept. of Environmental Science, University of Virginia.  
2013                        *Distinguished Investigator Award*, University of Virginia  
2011                        *Fellow*, The John Simon Guggenheim Memorial Foundation.  
2011                        *Fulbright Distinguished Lecturer*, J. William Fulbright Foreign Scholarship Board.  
2009                        *Sustainability Science Award*, Ecological Society of America.  
2004                        *Lagrange Fellow*, Fondazione CRT and Fondazione ISI, Torino, Italy.  
2003                        *University of Virginia Teaching Fellow*, Charlottesville, Virginia.  
1998-1999                *Prof. Aldo Gini Fellowship* for studies and research abroad, Gini Foundation, Padua, Italy.  
1998                        *Prof. Emanuele Guggino Dissertation Prize*, CSEI, Mediterranean Polytechnic Foundation, CT, Italy.  
1994                        *Magna Cum Laude* distinction, University of Padua, Italy.

#### Editorial Boards

- **Editor-in-Chief**, *Advances in Water Resources* (2014-)
- **Editorial Board**, *Oxford Encyclopedia of Environmental Sciences* (2014-)
- **Associate Editor**, *Frontiers in Sustainable Food Systems* (2017-)
- **Editor**, *Geophysical Research Letters*, 2009-2013
- **Editorial Board**, *Advances in Water Resources*, 2012-2014
- **Associate Editor**, *Water Resources Research*, 2004-2009

#### Research Interests

Eco-hydrology, water sustainability, surface hydrology, stochastic modeling of hydrologic processes, soil moisture dynamics, regional water cycle, soil erosion, desertification, water and food security.

## Publications

### Books

- P. D'Odorico** and A. Porporato (Editors), *Dryland Ecohydrology*, Springer, 2006.
- L. Ridolfi, **P. D'Odorico**, and F. Laio, *Noise-induced Phenomena in the Environmental Sciences*, Cambridge University Press, New York, 314pp., 2011.
- Hornberger, G. M., P. L. Wiberg, J. Raffensberger, and **P. D'Odorico**. *Elements of Physical Hydrology*, 2<sup>nd</sup> ed., Baltimore, Maryland: Johns Hopkins Press, 2014.
- Runyan, C.W. and **P. D'Odorico**. *Global Deforestation*, Cambridge University Press, New York, 248 pp., 2016.

### Peer-reviewed journal articles. ([\*] denotes manuscripts co-authored with my advisees)

ISI Research ID A-5836-2008 (<http://www.researcherid.com/rid/A-5836-2008>)

1. Huang, H., J.C. Zinnert, L.K. Wood, D.R. Young, and **P. D'Odorico**, “A non-linear shift from grassland to shrubland in temperate barrier islands”, *Ecology*, in press
2. Rosa, L., K.F. Davis, M.C. Rulli, and **P. D'Odorico**, 2018. “The water-energy nexus of hydraulic fracturing: a global hydrologic analysis for shale oil and gas extraction”, *Earth's Future*, in press.
3. Getz, W., C. Marshall, C. Carlson, L. Giuggioli, S. Ryan, S. Romanach, C. Boettiger, S. Chamberlian, L. Larsen, **P. D'Odorico**, D. O'Sullivan, 2018. “Making ecosystems models adequate”, *Ecology Letters*, DOI: 10.1111/ele.12893.
4. Chiarelli, D., L. Rosa, M.C. Rulli, and **P. D'Odorico**, 2018. “The water-food nexus of natural rubber production”, *J. Industrial Production*, 172, 1739-1747.
5. Dell'Angelo, J., **P. D'Odorico**, and M.C. Rulli, 2018. “The Global Water Grab Syndrome”, *Ecological Economics*, 143, 276-285.
6. Calabrese, S., A. Porporato, F. Laio, **P. D'Odorico**, and L. Ridolfi, 2017. “Age distribution dynamics with stochastic jumps in mortality”, *Proc. R. Soc. Lond. A*, 473(2207), DOI: 10.1098/rspa.2017.0451.
7. Davis, K.F., M.C. Rulli, A. Seveso, and **P. D'Odorico**, 2017. “Increase in food production and reduction in water use through optimized crop distribution”, *Nature Geosciences*, doi.org/10.1038/s41561-017-0004-5.
8. **D'Odorico P.**, J.L. Natyzak, E. A. Castner, K. F. Davis, K. Emery, J.A. Gephart, A. Leach, M.L. Pace, and J. N. Galloway, 2017. “Ancient water supports today's energy needs”, *Earth's Future*, 5(5), 515-519, doi:10.1002/2017EF000544.
9. Natyzak, J.L., E.A. Castner, **P. D'Odorico**, J.N. Galloway, 2017. “Virtual Water as a Metric for Institutional Sustainability”, *Sustainability The Journal of Record*, 10(4), 238-245.
10. Siciliano G., M.C. Rulli, and **P. D'Odorico**, 2017. “European large-scale farmland investments and the water, energy, food nexus”, *Advances in Water Resources*, doi.org/10.1016/j.advwatres.2017.08.012.
11. Yu, K., **P. D'Odorico**, D. Carr, A. Personius, S.L. Collins, 2017. “The effect of nitrogen availability and water conditions on competition between a facultative CAM plant and an invasive grass”, *Ecology & Evolution*, 1–11. <https://doi.org/10.1002/ece3.3296>.
12. **D'Odorico P.**, M.C. Rulli, J. Dell'Angelo, K.F. Davis, 2017. “New frontiers of land and water commodification: socioenvironmental controversies of large-scale land acquisitions”, *Land Degradation & Development*, DOI: 10.1002/ldr.2750.
13. Dell'Angelo, J., M.C. Rulli, and **P. D'Odorico**, 2017. “Land and water grabbing threats to sustainable development”, *Current Opinions in Environment and Sustainability*, 26, 120-128.
14. Saha, M. V., **P. D'Odorico**, and T. M. Scanlon, 2017. Albedo changes after fire as an explanation of fire-induced rainfall suppression, *Geophys. Res. Lett.*, 44, doi:10.1002/2017GL073623.[\*]
15. Yu, K., **P. D'Odorico**, W. Li, Y. He, 2017. “Effects of competition on induction of crassulacean acid metabolism in a facultative CAM plant”. *Oecologia*, 184(2), 351-361, DOI: 10.1007/s00442-017-3868-6.[\*]
16. S. Van Pelt, Baddock, M. T.M. Zobeck, S. Ravi, A. Bhattachan, and **P. D'Odorico**, 2017. “Total vertical sediment flux and PM10 emissions from disturbed Chihuahuan Desert surfaces”, *Geoderma*, 293, 19-25, 2017.
17. Rosa, L., K.F. Davis, M.C. Rulli, and **P. D'Odorico**, 2017. “Environmental consequences of oil production from oil sands”, *Earth's Future*, 5, doi:10.1002/2016EF000484.[\*]
18. Seekell, D.A., J. Carr, J. Dell'Angelo, **P. D'Odorico**, M. Fader, J. Gephart, R.P. Korzeniewicz, M. Kummu, N. Magliocca, M. Porkka, C. Prell, M. Puma, Z. Ratajczak, M.C. Rulli, S. Suweis, A Tavoni, 2017, “Resilience in the global food system”, *Environm. Res. Lett.*, 12, <http://iopscience.iop.org/1748-9326/12/2/025010>.

19. Rulli, M.C., M. Santini M., **P. D'Odorico**, 2017. "The nexus between forest fragmentation in Africa and Ebola virus disease outbreaks", *Sci. Rep.*, 7: 41613.
20. Davis, K.F., A. Seveso, M.C. Rulli, and **P. D'Odorico**, 2017, "Water savings of crop redistribution in the United States", *Water*, 9, 83; doi:10.3390/w9020083. [\*]
21. Dell'Angelo, J., M.C. Rulli, P. Marchand, and **P. D'Odorico**, 2017. "The tragedy of the grabbed commons", *World Development*, 92, 1-12, 2017. <http://dx.doi.org/10.1016/j.worlddev.2016.11.005>.
22. Guo H., C. Weaver, S. Charles, A. Whitt, S. Dastidar, **P. D'Odorico**, J.D. Fuentes, J.S. Kominoski, A. R. Armitage and S. C. Pennings, 2017, "Coastal regime shifts: Rapid responses of coastal wetlands to changes in mangrove cover", *Ecology*, 98(3), 762–772.
23. Ratajczak, Z., **D'Odorico, P.**, Collins, S. L., Bestelmeyer, B. T., Isbell, F. I. and Nippert, J. B., 2017. The interactive effects of press/pulse intensity and duration on regime shifts at multiple scales. *Ecol Monogr.* 87(2), 2017, pp. 198–218, doi:10.1002/ecm.1249.
24. Ratajczak, Z., K. Yu, and **P. D'Odorico**, 2017. "The enemy of my enemy hypothesis: why coexisting with grasses may be an adaptive strategy for savanna trees". *Ecosystems*, 1-18, doi:10.1007/s10021-017-0110-7.
25. Ratajczak, Z., **P. D'Odorico**, J.B. Nippert, S. Collins, N.A. Brunzell, S. Ravi, 2017. "Changes in spatial variance during a grassland to scrubland state transition". *J. Ecol.*, 105(3), 750-760, <http://dx.doi.org/10.1111/1365-2745.12696>.
26. Davis, K.F., M.C. Rulli, F. Garrassino, A. Seveso, and **P. D'Odorico**, Water limits to closing yield gaps, *Adv. Water Resour.*, 99, 67-75, 2016. [\*]
27. Yu, K., M.J. Saha, and **P. D'Odorico**, "The effects of interannual rainfall variability on tree/grass composition along Kalahari rainfall gradient". *Ecosystems*, 20(5), 975-988, doi:10.1007/s10021-016-0086-8, 2016.[\*]
28. Carr, J.A., **P. D'Odorico**, S. Suweis, D. Seekell, "What commodities and countries impact inequality in the global food system?", *Environm. Res. Lett.*, 11, 095013, doi:10.1088/1748-9326/11/9/095013, 2016.
29. Saha, MV, **P. D'Odorico**, T.M. Scanlon, "Fire Suppresses Rainfall in African Drylands", *Geophys. Res. Lett.*, 43, doi:10.1002/2016GL069855, 2016.[\*]
30. Marchand P., J. A. Carr, J. Dell'Angelo, M. Fader, J.A. Gephart, M. Kummu, N. R. Magliocca, M. Porkka, M. J. Puma, Z. Ratajczak, M. C. Rulli, D.A. Seekell, S. Suweis, A. Tavoni, **P. D'Odorico**, Reserves and trade jointly determine exposure to food supply shocks, *Environm. Res. Lett.*, 11, 095009, doi:10.1088/1748-9326/11/9/095009, 2016.
31. Bhattachan, A., I. Reche, and **P. D'Odorico**, "Soluble ferrous iron (Fe (II)) enrichment in airborne dust", *J. Geophys. Res. (Atmospheres)*, 121, doi:10.1002/2016JD025025, 2016.
32. MacDonald, G.K., **P. D'Odorico**, and D.A. Seekell, Pathways to sustainable intensification through crop water management. *Environm. Res. Lett.*, 11, 091001, 2016.
33. Yu, K and **P. D'Odorico**, "From facilitative to competitive interactions between woody plants and plants with Crassulacean Acid Metabolism (CAM): the role of hydraulic descent", *Ecohydrology*, DOI: 10.1002/eco.1742, 2016 [\*].
34. Davis, K.F., J.A. Gephart, K. A. Emery, A.M. Leach, J.N. Galloway, **P. D'Odorico**, "Meeting future crop demand with current agricultural resources: Required changes in dietary trends and production efficiencies", *Global Environmental Change*, 39, 125-132, 2016 [\*].
35. Chiarelli, D.D., F.K. Davis, M.C. Rulli, **P. D'Odorico**, Climate change and Large Scale Land Acquisitions in Africa: Quantifying the future impact on acquired water resources. *Adv. Water. Resour.* 94, 231-237, 2016.
36. Fader, M., M.C. Rulli, J. Carr, J. Dell'Angelo, **P. D'Odorico**, J. Gephart, M. Kummu, N. Magliocca, M. Porkka, C. Prell, M. Puma, Z. Ratajczak, D.A. Seekell, S. Suweis, A. Tavoni, "Past and present biophysical redundancy of countries as a buffer to changes in food supply". *Environm. Res. Lett.*, 11, 055008, 2016.
37. Leach, A., K.A Emery; J. Gephart; K.F. Davis; J.W. Erisman; A. Leip; M.L. Pace; **P. D'Odorico**; J. Carr; L. Cattell Noll; E. Castner; J. N. Galloway, Environmental impact food labels combining carbon, nitrogen, and water footprints, *Food Policy*, 61, 213-223, 2016.
38. Carr, JA, **P. D'Odorico**, V. Engel, J. Redwine, "Tree island pattern formation in the Florida Everglades". *Ecological Complexity*, 26, 37-44, 2016.
39. Carr J.A., **P. D'Odorico**, K. McGlathery, and P. Wiberg, "Spatially explicit feedbacks between seagrass meadow structure, sediment and light: habitat suitability for seagrass growth, *Adv. Water Resour.* 93, 315-325, 2016.
40. Yu, K., G.S., Okin, S. Ravi, **P. D'Odorico**, "Potential of grass invasions in desert shrublands to create novel ecosystem states under variable climate", *Ecohydrology*, DOI: 10.1002/eco.1742, 2016 [\*].
41. Rulli, M.C., D. Bellomi, A. Cazzoli, G. De Carolis, and **P. D'Odorico**, "The water-energy-food nexus of first-generation biofuels", *Sci. Rep.*, 6:22521 doi:10.1038/srep22521, 2016.

42. Laio F., L. Ridolfi, and **P. D'Odorico**, "Past and future of food stocks", *Environm. Res. Lett.*, 11, 035010, 2016.
43. Crouzy, B., F. Baerenbold, **P. D'Odorico**, P. Perona, "Ecomorphodynamic approaches to river anabranching patterns", *Adv. Water. Res.* 93B, 156-165, 2016.
44. Davis, K.F., K. Yu, M. Herrero, P. Havlik, J. A. Carr, **P. D'Odorico**, "Trends and trade-offs of livestock's environmental impacts", *Environm. Res. Lett.*, 10, 125013, 2015.
45. Runyan C.W., W. M. Shobe, and **P. D'Odorico**, "The economic impacts of positive feedbacks resulting from deforestation", *Ecol. Economics*, 120, 93-99, 2015.
46. Vandecar, K.L., C. Runyan, D. Lawrence, B. Schmook, R. Das, and **P. D'Odorico**, "Phosphorus input through occult deposition in a dry tropical forest", *J. Geophys. Res.*, 120(12), 2493-2504, 2015.
47. Yu K., **P. D'Odorico**, A. Bhattachan, G. Okin, and A. Evan., "Dust-rainfall feedback in West African Sahel", *Geophys. Res. Lett.*, 42,doi:10.1002/2015GL065533, 2015 [\*].
48. Tuninetti, M., S. Tamea, **P. D'Odorico**, F. Laio, L. Ridolfi, "Global sensitivity of high-resolution estimates of crop water footprint", *Water Resour. Res.*, 10.1002/2015WR017148, 2015.
49. Davis, K.F., and **P. D'Odorico**, "Livestock intensification and the influence of dietary change: A calorie-based assessment of competition for crop production", *Science of Total Environment*, 538, 817-823, 2015 [\*].
50. Palmer M.A., J. Lee, J.H. Matthews, and **P. D'Odorico**, "Building Water Security: the role of natural systems", *Science*. 349(6248), 584-585, 2015.
51. Davis K.F., K. Yu, M.C. Rulli, L. Pichdara, and **P. D'Odorico**, "Accelerated deforestation by large-scale land acquisitions in Cambodia", *Nature Geoscience*, 8, 772-775, DOI: 10.1038/NCEO2540, 2015 [\*].
52. Suweis, S., J.A. Carr, A. Rinaldo, A. Maritan, and **P. D'Odorico**, "Resilience and reactivity of global food security", *Proc. Natnl. Acad. Sci., USA, PNAS*, doi: 10.1073/pnas.1507366112, 2015.
53. Davis, K.F., M.C. Rulli, **P. D'Odorico**, "The Global Land Rush and Climate Change", *Earth's Future*, 3, 298-311, doi:10.1002/2014EF000281, 2015 [\*].
54. Yu, K and **P. D'Odorico**, "Hydraulic lift as a determinant of tree-grass coexistence in savannas", *New Phytol.*, 10.1111/nph.13431, 2015[\*].
55. Saha, M.V., T.M. Scanlon, and **P. D'Odorico**, "Examining the linkage between shrub encroachment and recent greening in water-limited Southern Africa" *Ecosphere*, 6(9), 156, <http://dx.doi.org/10.1890/ES15-00098.1>, 2015 [\*].
56. Yu, K. and **P. D'Odorico**, "Direct and indirect facilitation of plants with Crassulacean Acid Metabolism (CAM)", *Ecosystems*, 10.1007/s10021-015-9877-6, 2015 [\*].
57. O'Donnell, F.C., K.K. Caylor, A. Bhattachan, K. Dintwe, **P. D'Odorico**, G. S. Okin, "Species-level diversity of below-ground structure in savanna woody plants", *Ecosphere*, 6(9), 154, 2015.
58. Carr, J.A., D.A. Seekell, and **P. D'Odorico**, "Inequality or injustice in water use for food?" *Environm. Research Lett.*, 10, 024013, doi:10.1088/1748-9326/10/2/024013, 2015.
59. Bhattachan, A., L. Wang, M. F. Miller, K. J. Licht, and **P. D'Odorico** (2015), "Antarctica's Dry Valleys: A potential source of soluble iron to the Southern Ocean?" *Geophys. Res. Lett.*, 42, 1912–1918. doi: 10.1002/2015GL063419, 2015.
60. Bhattachan, A., **P. D'Odorico**, and G.S. Okin, "Biogeochemistry of Dust Sources in Southern Africa", *Journal of Arid Environments.*, 117: 18-27, 2015.
61. He, Y. **P. D'Odorico**, S. DeWekker, "The role of vegetation-microclimate feedback in promoting shrub encroachment in the northern Chihuahuan desert", *Global Change Biology*, doi: 10.1111/gcb.12856, 2015.[\*]
62. Ridolfi, L., **P. D'Odorico** and F. Laio, "Indicators of collapse in systems undergoing unsustainable growth", *Bull. Math. Biol.*, 77:339–347DOI 10.1007/s11538-013-9922-6, 2015.
63. **D'Odorico P.**, J.A. Carr, F. Laio, S.Vandoni, L. Ridolfi, "Feeding humanity through the food and water trade networks". *Earth's Future*, 2, doi:10.1002/2014EF000250, 2014.
64. Dintwe, K., G.S. Okin, **P. D'Odorico**, K.K. Caylor, T. Hrast, N. Mladenov, A. Handorean, A. Bhattachan, F.C. O'Donnell, "Soil Organic Carbon and Total Nitrogen Pools in the Kalahari: Potential Impacts of Climate Change on Carbon Sequestration in Savannas", *Plant and Soil*, 10/2014; DOI: 10.1007/s11104-014-2292-5, 2014.

65. Davis, K.F., M.C. Rulli, and **P. D’Odorico**, “Moderating diets to feed the future”, *Earth’s Future*, 2, doi:10.1002/2014EF000254, 2014. [\*]
66. **D’Odorico P.** and M.C. Rulli, “International land grabbing”, *Oxford Bibliography in Environmental Sciences*, New York, 2014.
67. Bhattachan, A. and **P. D’Odorico**, "Can land use intensification in the Mallee, Australia increase the supply of soluble iron to the Southern Ocean?", *Sci. Rep.* 4, 6009; DOI:10.1038/srep06009, 2014.
68. Rulli, M.C. and **P. D’Odorico**, “Food appropriation through large scale land acquisitions”, *Environm. Res. Lett.* 9, 064030, doi:10.1088/1748-9326/9/6/064030, 2014.
69. Suweis S. and **P. D’Odorico**, “Early warning signs in social-ecological networks”, *PLoS-One*, 9(7): e101851. doi:10.1371/journal.pone.0101851, 2014.
70. Davis, K.F., **P. D’Odorico**, and M.C. Rulli, “Land grabbing: Quantifying economic impacts on rural livelihoods”, *Population and Environment*, DOI: 10.1007/s11111-014-0215-2, 2014 [\*]
71. Collins, S.L., J. Belnap, C.N. Dahm, **P. D’Odorico**, N.B. Grimm, M. Litvak, D.O. Natvig, D.C. Peters, W.T. Pockman, J.A. Rudgers, R.L. Sinsabaugh, B.O. Wolf, "A multi-scale, hierarchical model of pulse dynamics in aridland ecosystems", *Ann. Rev. Ecol. Syst.*, 45:397–419, 2014 .
72. **D’Odorico P.** and M.C. Rulli, “The land and its people”, *Nature Geoscience*, 4: 324-325, 2014.
73. He, Y. **P. D’Odorico**, and S. F. DeWekker, “On the relative importance of climate change and shrub encroachment on nocturnal warming in the Southwestern U.S”, *Int. J. Climatol.* DOI: 10.1002/joc.3992, 2014 [\*]
74. Yu, K. and **P. D’Odorico**, “An ecohydrological framework for grass displacement by woody plants in grasslands and savannas”, *J. Geophys. Res.*, DOI: 10.1002/2013JG002577, 2014. [\*].
75. Yu, K. and **P. D’Odorico**, “Climate, vegetation, and soil controls on hydraulic redistribution in shallow tree roots”, *Adv. Water Resour.*, 66, 70-80, 2014. [\*].
76. Runyan C.W. and **P. D’Odorico**, “Bistable dynamics between forest removal and landslide occurrence”, *Water Resour. Res.*, 50(2), 1112-1130, DOI: 10.1002/2013WR014819, 2014. [\*].
77. O’Bannon, C., J.A. Carr, D.A. Seekell, and **P. D’Odorico**, “Globalization of agricultural pollution due to international trade”, *Hydrol. Earth Syst. Sci.*, 18, 503–510, doi:10.5194/hess-18-503-2014, 2014 [\*].
78. Bhattachan, A., **P. D’Odorico**, K. Dintwe, G.S. Okin, and S.L. Collins, “Resilience and Recovery of the Kalahari dunes”, *Ecosphere*, 5(2): 1-14, 2014 [\*].
79. Gephart, J., M.L. Pace, **P. D’Odorico**. “Freshwater savings from marine protein consumption”, *Environ. Res. Lett.* 9: 014005, 2014.
80. Meyer, T., **P. D’Odorico**, G.S. Okin, H.H. Shugart, K.K. Caylor, F.C. O’Donnell, A. Bhattachan, K. Dintwe. “An analysis of structure: biomass structure relationships for characteristic species of the western Kalahari, Botswana”, *Afr. Jour. Ecol.*, 52(1), 20-29. doi: 10.1111/aje.12086, 2014 [\*].
81. Rulli, M.C. and **P. D’Odorico**, “The water footprint of land grabbing”, *Geophys. Res. Lett.* 40, 1–6, doi:10.1002/2013GL058281, 2013.
82. Runyan, C.W., **P. D’Odorico**, R Das, B. Schmook, and D. Lawrence, “Positive feedbacks between phosphorus deposition and forest canopy trapping: evidence from Southern Mexico”, *J. Geophys Res. (Biogeosciences)*, 118, 1–11, doi:10.1002/2013JG002384, 2013.
83. Rulli, M.C. and **P. D’Odorico**. “The science of evidence: the value of global studies on land rush”, *Journal of Paesant Studies*, 40(5): 907-907, doi 10.1080/03066150.2013.853044, 2013.
84. **D’Odorico P.** and M.C. Rulli, “The fourth food revolution”, *Nature Geoscience*, 6, 417-418, doi 10.1038/ngeo1842, 6(6), 417-418, 2013.
85. McGlathery, K.L., M.A. Reidenbach, **P. D’Odorico**, S. Fagherazzi, M.L. Pace, J.H. Porter, “Nonlinear Dynamics and Alternative Stable States in Shallow Coastal Systems”, *Oceanography*, 26(3), 220-23, 2013.
86. **D’Odorico P.**, L. Ridolfi and F. Laio, “Precursors of state transitions in stochastic systems with delay”, *Theor. Ecol.* 6(3), 265-270, Doi: 10.1007/s12080-013-0188-2, 2013.
87. Rulli, M.C., A. Saviori, and **P. D’Odorico**, “Global land and water grabbing”, *Proc. Natnl Acad. Sci, USA*, PNAS, doi: 10.1073/pnas.1213163110, 2013.
88. Suweis, S., A. Rinaldo, A. Maritan, and **P. D’Odorico**, “Water-controlled wealth of nations”, *Proc. Natnl Acad. Sci, USA*, PNAS, 110(11), 4230-4233, doi: 10.1073/pnas.1222452110, 2013.

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#### Book Chapters

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### **Postdocs Advised**

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 Dr. Matthew Baddock, (2010-2011)  
 Dr. Joel Carr (2011-2015)  
 Dr. Christiane Runyan (2013-2015)  
 Dr. Abinash Bhattachan (2013-2015)  
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 Mr. Ryan Emanuel, Environmental Sciences, University of Virginia, 2003-2007 (Assoc. Prof., NC State Univ.)  
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 Mr. Lixin Wang, Environmental Sciences, University of Virginia, 2004-2008 (Assist. Prof.,Indiana Purdue Univ)  
 Mr. Joel A. Carr, Environmental Sciences, University of Virginia, 2007-2011(now at USGS).  
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 Mr. Kyle Davis, Environmental Sciences, University of Virginia, 2011-2016 (Postdoc at Columbia Univ.)  
 Mr. Michael Saha, Environmental Sciences, University of Virginia, 2012-  
 Mr. Kailiang Yu, Environmental Sciences, University of Virginia, 2012-2016 (Postdoc at University of Utah).  
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 Mr. Lorenzo Rosa, Environmental Science, Policy, Management, University of California, Berkeley, 2017-  
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Mr. Sujith Ravi, M.S. in Environmental Sciences, University of Virginia, 2003-2004.  
Ms. Marcia DeLonge, M.S. in Environmental Sciences, University of Virginia, 2004-2006  
Mr. Ken Easterling, M.E., in Civil Engineering, Texas A&M University, 2000-2001.

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*Sustainable Water and Food Security* (EVSC 4995, Spring 2016), University of Virginia.

*Water on Earth* (EVSC 140 – Spring 2008, Spring 2009, Spring 2010), University of Virginia

*Collapse of Ecosystems and Societies in a Changing World* (USEM 180 – Fall 2008, 2009), University of Virginia

*Physical Hydrology* (EVSC 340 - 2002, 2002, 2004, 2006, 2013, 2014, 2016), University of Virginia.

*Introduction to Forest Hydrology* (EVSC 493 - Spring 2004, Spring 2007), University of Virginia.

*Hydrological Transport Processes* (EVHY 545 - 2003, 2004; 2006, 2008, 2010, 2012), University of Virginia.

*Dryland Ecohydrology* (EVHY 795 – Fall, 2006, Fall 2007, Fall 2009, Fall 2013)

*Fluvial Hydrology* (EVHY 795 - Fall 2002) , University of Virginia.

*Water Sustainability* (EVSC 459), University of Virginia

*Forest Hydrology* (EVHY 795 - Fall 2003, 2004, Spring 2006, 2008, 2010, 2012, 2013), University of Virginia.

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*Water Resources Engineering*. (CVEN 339 - Undergraduate, taught for 4 semesters), Texas A&M University.

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