

Curriculum Vitae

PAOLO D'ODORICO

Thomas J. Graff Professor of Water Resources
Department of Environmental Science, Policy, and Management
Department of Civil and Environmental Engineering
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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

2021- Thomas J. Graff Endowed Chair in the College of Natural Resources, University of California, Berkeley.
2019-2022 Chair, Department of Environmental Science, Policy, Management, University of California, Berkeley, USA.
2018-2019 Chair, Ecosystem Science Division, ESPM Department, University of California, Berkeley, USA.
2021- Professor of Civil & Environmental Engineering, University of California, Berkeley, USA.
2016- Professor, Environmental Science, Policy & Management Dept., University of California, Berkeley, USA.
2010-2016 Ernest H. Ern Professor of Environmental Sciences, University of Virginia, Charlottesville, 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 Operations Research, Princeton University, USA.
1997-1998 Research Associate, Department of Civil Engineering, Texas A&M University, College Station, USA.

Honors and Awards

2024 *Prince Sultan Bin Abdulaziz International Creativity Prize for Water*, PSIPW Council, (ceremony in fall 2024).
2024 *Fellow*, Istituto Veneto di Scienze, Lettere e Arti, Venice.
2023 *Highly Cited Researcher*, Web of Science, Clarivate
2023 *Hydrological Science Medal*, American Meteorological Society
2023 *Fellow*, American Meteorological Society
2022 *Fellow*, American Association for the Advancement of Science.
2016 *Paul Witherspoon Lecture*, American Geophysical Union.
2016 *Fellow*, American Geophysical Union.
2013 *Maurry-Tice Environmental Prize*, University of Virginia.
2013 *Distinguished Investigator Award*, University of Virginia
2011 *Guggenheim Fellow*, 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**, *Reviews of Geophysics* (2019-)
- **Editorial Board**, *Drylands*, Cambridge University Press (2024-)
- **Editor-in-Chief**, *Advances in Water Resources* (2014-2021)

- **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-
- **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, water justice.

Publications ([*] denotes publications with my advisees)

305 Articles in peer-reviewed journals & **5 Books**

H-Index: *Google Scholar* =96 (29,204 citations); *ISI-Web of Knowledge* =74 (16,883 citations)

Books

P. D’Odorico, A. Porporato, C.W. Runyan (Editors), *Dryland Ecohydrology* 2nd Edition, Springer, 594 pp., 2019.

Runyan, C.W. and **P. D’Odorico**. *Global Deforestation*, Cambridge University Press, New York, 248 pp., 2016.

Hornberger, G. M., P. L. Wiberg, J. Raffensberger, and **P. D’Odorico**. *Elements of Physical Hydrology*, 2nd ed., Baltimore, Maryland: Johns Hopkins Press, 2014.

Ridolfi, L., **P. D’Odorico**, and F. Laio, *Noise-induced Phenomena in the Environmental Sciences*, Cambridge University Press, New York, 314pp., 2011.

P. D’Odorico and A. Porporato (Editors), *Dryland Ecohydrology*, Springer, 2006.

Peer-reviewed journal articles

1. Rulli, M.C., M. Sardo, C. Govoni, N. Galli, D.D. Chiarelli, A. Komarek, **P. D’Odorico** (2024). Meeting the EAT-Lancet ‘healthy’ diet target while protecting land and water resources, *Nature Sustainability*, in press.
2. Yang, Y, D. Tilman, Z. Jin, P. Smith, C. B. Barrett, Y-G Zhu, J. Burney, **P. D’Odorico**, P. Fantke, J. Fargione, J. C. Finlay, M.C. Rulli, L. Sloat, K. Jan van Groenigen, P.C. West, L. Ziska, A.M. Michalak, the Clim-Ag Team, D.B. Lobell, (2024). “Climate change exacerbates the environmental impacts of agriculture”, *Science*, 385(6723), DOI: 10.1126/science.adn3747.
3. Mekonnen, M., M. Kebede, B. Demeke, J. Carr, A. Chapagain, C. Dalin, P. Debaere, **P. D’Odorico**, L. Marston, C. Ray, L. Rosa, and L. Zhuo, (2024). Global Virtual Water Trade Trends, Key Players, and Environmental Impacts, *Nature Reviews Earth & Environment*, in press.
4. Saeedian, M., C. Tu, F. Menegazzo, **P. D’Odorico**, S. Azaele, and S. Suweis, “Modelling co-evolution of resource feedback and social network dynamics in human-environmental systems”, *New Journal of Physics*, in press.
5. **D’Odorico, P.**, J. Dell’Angelo, and M.C. Rulli (2024). “Appropriation pathways of water grabbing”, *World Development*, 181, p.106650.
6. **D’Odorico, P.**, J. Dell’Angelo, and M.C. Rulli (2024). “Water commons grabbing and (in)justice”. *Nature Water*: 1-3 <https://doi.org/10.1038/s44221-024-00231-8>.
7. Yu, K., **P. D’Odorico**, A. Novoa, S. L. Collins, S. Hartzell, H. Huang, H. Liu, P. Weigelt, A. Porporato (2024). “Potential expansion of plants with crassulacean acid metabolism in the Anthropocene”, *Bioscience*, biae057, <https://doi.org/10.1093/biosci/biae057>.
8. Ren, N., E. J. Hanan, **P. D’Odorico**, N. Tague, J. P. Schimel, and P. M. Homyak (2024). “Dryland watersheds in flux: How nitrogen deposition and changing precipitation regimes shape nitrogen export” *Earth Future*, 12, e2023EF004120 <https://doi.org/10.1029/2023EF004120>
9. Khatei, G., T. Rinaldo, S. Van Pelt, **P. D’Odorico**, and S. Ravi (2024). “Wind erodibility and particulate matter emissions of salt-affected soils: The case of dry soils in a low humidity atmosphere”, *J. Geophys. Res.*, 129, e2023JD039576. <https://doi.org/10.1029/2023JD039576>
10. Karimzadeh S., D.D. Chiarelli, S. Hartman, M.C. Rulli, and **P. D’Odorico**, (2024), “The tradeoff between water savings and salinization prevention in dryland irrigation”, *Adv. Water Resour.* 183, 104604, ISSN 0309-1708, <https://doi.org/10.1016/j.advwatres.2023.104604>.

11. Key, P., L. Wang-Erlandsson, M.L. Moore, A. Pranindita, F. Stenzel, O. Varis, R. Warrier, R. B. Wong, **P. D'Odorico**, C. Folke. (2024) "The Dry Sky: Future Scenarios for Humanity's Modification of the Atmospheric Water Cycle", *Global Sustainability*, 7, e11, 1–13. <https://doi.org/10.1017/sus.2024.9>.
12. Ricciardi, L. **P. D'Odorico**, M.C. Rulli, (2024). "To what extent can agriculture be reshaped to address healthy and sustainable diets by boosting pulse production locally?", *Global Food Security*, 40, 100734.
13. Govoni, C. **P. D'Odorico**, L. Pinotti, and M.C. Rulli (2023), "Preserving global land and water resources through the replacement of livestock feeds with agricultural by-products" *Nature Food*. <https://doi.org/10.1038/s43016-023-00884-w>
14. Muylaert, R., D.A. Wilkinson, T. Kingston, **P. D'Odorico**, M.C. Rulli, N. Galli, R. R.S. John, P. Alviola, D. S. Hayman (2023), "Using drivers and transmission pathways to identify SARS-like coronavirus spillover risk hotspots", *Nature Comm.* 14: 6854.
15. May Lagunes, G., V. Chau, E. Ellestad, L. Greengard, **P. D'Odorico**, P. Vahabi, A. Todeschini, M. Girotto (2023). "Forecasting Groundwater Levels Using Machine Learning Methods: The Case of California's Central Valley", *J. Hydrol.*, 21, 100161.
16. Dell'Angelo, J., M.C. Rulli, and **P. D'Odorico** (2023). "Will war in Ukraine escalate the global land rush?", *Science*, 379(6634), 752-755.
17. Wolde S.G., **P. D'Odorico**, and M.C. Rulli (2023). "Environmental drivers of human migration in Sub-Saharan Africa", *Global Sustainability*, y 6, e9, 1–33. <https://doi.org/10.1017/sus.2023.5>.
18. Sardo, M., I. Epifani, **P. D'Odorico**, N. Galli, and M.C. Rulli (2023). "Exploring the water-food nexus reveals the interlinkages with urban human conflicts in Central America", *Nature Water*, doi 10.1038/s44221-023-00053-0.
19. Tu, C., **P. D'Odorico**, Z. Li, S. Suweis (2023). "The emergence of cooperation from shared goals in the governance of common pool resources", *Nature Sustainability*, <https://doi.org/10.1038/s41893-022-01008-1>.
20. Hartman, S., M. Farfan, J. Hoogesteger, **P. D'Odorico** (2022), "Mapping the widespread expansion of berry greenhouses onto Mexico's ejido lands", *Environmental Research Letters*, 17 (2022) 115004, doi.org/10.1088/1748-9326/ac9ac8.
21. Wang, L., W. Jiao, N. MacBean, M.C. Rulli, S. Manzoni, G. Vico, and **P. D'Odorico** (2022), "Dryland productivity under a changing climate", *Nature Climate Change*, Nature Climate Change, 12, 981–994 (2022). <https://doi.org/10.1038/s41558-022-01499-y>.
22. Beltran- Peña, A. and **P. D'Odorico** (2022). "Future Food Security in Africa under Climate Change", *Earth's Future*, 10, e2022EF002651, <https://doi.org/10.1029/2022EF002651>.
23. Ricciardi, L., **P. D'Odorico**, N. Galli, D.D. Chiarelli, M.C. Rulli (2022). "Hydrological implications of large-scale afforestation in tropical biomes for climate change mitigation". *Phil. Trans. R. Soc. B* 377: 20210391. <https://doi.org/10.1098/rstb.2021.0391>.
24. Tatlhago, M., D.D. Chiarelli, M.C. Rulli, **P. D'Odorico** (2022). "The value generated by irrigation in the command areas of new agricultural dams in Africa ", *Agric. Water. Management.*, 264, 107517, doi.org/10.1016/j.agwat.2022.107517.
25. Bhattachan, A, K. Dintwe, M. Tatlhago, **P. D'Odorico**, and G.S. Okin (2022), "Evaluation of dust production efficiencies in sandy sediments", *Earth Surface Processes and Landforms*, 1–9. <https://doi.org/10.1002/esp.5312>
26. Chiarelli, D.D., **P. D'Odorico**, M. Müller, N. Mueller, K. Davis, J. Dell'Angelo, G. Penny, M.C. Rulli (2022), "Competition for water induced by transnational land acquisitions for agriculture", *Nature Communications*, **13**, 505. <https://doi.org/10.1038/s41467-022-28077-2>.
27. Hartman, S., D.D. Chiarelli, M.C. Rulli, and **P. D'Odorico** (2022), "A Growing Produce Bubble: United States produce tied to Mexico's unsustainable agricultural water use", *Environm. Res. Lett.*, 16, 105008.
28. Abolhasani, A., Zehtabian, G., Khosravi, H., Rahmati, O., Alamdarloo, E. H., and **D'Odorico, P.** (2022). A new conceptual framework for spatial predictive modelling of land degradation in a semiarid area. *Land Degradation & Development*, 33(17), 3358– 3374. <https://doi.org/10.1002/ldr.4391>
29. Tatlhago, M., and **P. D'Odorico**, (2022). "Are African irrigation dam projects for large-scale agribusiness or small-scale farmers?", *Environm. Res. Comm.*, 4, 015005.
30. Zhang, X., G. Yao, S. Vishwakarma, C. Dalin, Adam M. Komarek, D. R. Kanter, K.F. Davis, K. Pfeifer, J. Zhao, T. Zou, **P. D'Odorico**, C. Folberth, F. Galeana, J. Fanzo, L. Rosa, W. Dennison, M. Musumba, A. Heyman, E. A. Davidson (2021), "Tracking global agricultural sustainability at the national scale", *One Earth*, 4 (9), 1262-1277.
31. Huang, H., C. Tu, and **P. D'Odorico** (2021), "Ecosystem complexity enhances the resilience of plant-pollinator systems", *One Earth*, 4 (9), 1286-1296.
32. Jenkins, W., L. Rosa, J. Schmidt, L. Band, A. Beltran-Peña, A. Clarens, S. Doney, R. Emanuel, A. Glassie, J. Quinn, M. C. Rulli, W. Shobe, L. Szeptycki, and **P. D'Odorico** (2021), "Values-Based Scenarios of Water Security: Rights to Water, Rights of Waters, and Commercial Water Rights", *Bioscience*, 20, biab088, <https://doi.org/10.1093/biosci/biab088>
33. Jiao, W., L. Wang, W. K. Smith, Q. Chan, H. Wang, **P. D'Odorico** (2021), "Observed increasing water constraint on vegetation growth over the last three decades", *Nature Communications*, doi: 10.1038/s41467-021-24016-9.
34. Huang, H., P.A. Tuley, J. Zinnert, I. Rodriguez-Iturbe, **P. D'Odorico** (2021), "Microclimate feedbacks sustain power law clustering of encroaching coastal woody vegetation", *Comm. Biol.*, 4:745, <https://doi.org/10.1038/s42003-021-02274-z>, www.nature.com/commsbio.

35. Nagaraj, D., E. Proust, A. Todeschini, M.C. Rulli, and **P. D'Odorico** (2021). "A new dataset of global irrigation areas from 2001 to 2015", *Adv. Water. Resour.* 152, 103910, <https://doi.org/10.1016/j.advwatres.2021.103910>.
36. Rulli, M.C., **P. D'Odorico**, N. Galli, and D.T. Hayman (2021). "Land use change and livestock revolution as contributors to Coronavirus emergence risk", *Nature Food*, <https://doi.org/10.1038/s43016-021-00285-x>.
37. Rosa, L., M.C. Rulli, S. Ali, D. Chiarelli, J. Dell'Angelo, N. Mueller, A. Scheidel, G. Siciliano, and **P. D'Odorico**, (2021). "Energy implications of the 21st century agrarian transition", *Nature Communications*, 12 (1), 1-9.
38. Müller M., G. Penny, M. T. Niles, V. Ricciardi, D. D. Chiarelli, K.F. Davis, J. Dell'Angelo, **P. D'Odorico**, L. Rosa, M.C. Rulli, N. D. Mueller (2021). "Impact of Transnational Land Acquisitions on Local Food Security and Dietary Diversity", *Proc. Natnl. Acad. Sci. USA*, 118 (4) e2020535118; DOI: 10.1073/pnas.2020535118.
39. Tu, C., **P. D'Odorico**, and S. Suweis (2021). "Dimensionality reduction of complex dynamical systems", *iScience*, 24, 101912.
40. Rosa, L., D.L. Sanchez, G. Realmonte, D. Baldocchi, **P. D'Odorico** (2021). "The water footprint of carbon capture and storage technologies", *Renewable & Sustainable Energy Reviews*, 138, <https://doi.org/10.1016/j.rser.2020.110511>.
41. Chiarelli, D.D., **P. D'Odorico**, K.F. Davis, R. Rosso, and M.C. Rulli, (2020) "Large scale land acquisition as a potential driver of slope instability", *Land Degradation & Development*, 1-13, doi.org/10.1002/ldr.3826.
42. Rosa, L., D.D. Chiarelli, M. Sangiorgio, A.A. Beltran-Peña, M.C. Rulli, **P. D'Odorico**, and I. Fung (2020). "Potential for sustainable irrigation expansion in a 3C warmer climate", *Proc. Natnl. Acad. Sci. USA*, <https://doi.org/10.1073/pnas.2017796117>.
43. **D'Odorico, P.**, D.D. Chiarelli, L. Rosa, A. Bini, D. Zilberman, and M.C. Rulli (2020). "The global value of water in agriculture", *Proc. Natnl. Acad. Sci. USA*, 17(36) 21985-21993, www.pnas.org/cgi/doi/10.1073/pnas.2005835117.
44. Chiarelli, D.D., C. Passera, L. Rosa, K. F. Davis, **P. D'Odorico**, and M. C. Rulli (2020). Global gridded dataset of crop-specific green and blue water requirements, the WATNEEDS model. *Scientific Data*. 7, 273.
45. Davis, K., H Koo, J. Dell'Angelo, **P. D'Odorico**, L. Estes, L. Kehoe, M. Kharratzadeh, T. Kuemmerle, D. Machava, A. Pais, N. Ribeiro, M.C. Rulli, and M. Tathego (2020). "Tropical forest loss enhanced by large-scale land acquisitions", *Nature Geosciences*, 13, 482–488.
46. Beltran-Peña, A. A., L. Rosa, and **P. D'Odorico**, (2020). "Global food self-sufficiency in the 21st century under sustainable intensification of agriculture", *Environm. Res. Lett.*, 15(9) 095004.
47. Huang, H., L.D.L. Anderegg, T.E. Dawson, M. Mote, and **P. D'Odorico** (2020). "Critical transition to woody plant dominance through microclimate feedbacks in North American coastal ecosystems", *Ecology*, 101(9): e03107. [10.1002/ecy.3107](https://doi.org/10.1002/ecy.3107)
48. Rosa, L., J.A. Reimer, M. Went, and **P. D'Odorico** (2020). "Hydrological limits to carbon capture and storage", *Nature Sustainability*, <https://doi.org/10.1038/s41893-020-0532-7>.
49. Brelsford, C., M. Dumas, E. Schlager, B. Dermody, M. Aiuvalasit, M. Allen-Dumas, J. Beecher, U. Bhatia, **P. D'Odorico**, M. Garcia, P. Gober, D. Groenfeldt, S. Lansing, K. Madani, L. E. Méndez-Barrientos, E. Mondino, M. Müller, F. O'Donnell, P. Mbullo Owuor, J. Rising, M. Sanderson, F. Arguello de Souza, S. Zipper (2020), Developing a sustainability science approach for water systems, *Ecology and Society*, 25(2):23. <https://doi.org/10.5751/ES-11515-250223>.
50. Kinnunen, P., J. H. A. Guillaume, M. Taka, **P. D'Odorico**, S. Siebert, M. J. Puma, M. Jalava, M. Kummu (2020). "Local food crop production can fulfil demand for less than one-third of population", *Nature Food*, 1, 229-237.
51. Rosa, L., D.D. Danilo Chiarelli, M.C. Rulli, J. Dell'Angelo, and **P. D'Odorico** (2020). "Global agricultural economic water scarcity", *Science Advances*, 6: eaaz6031.
52. Chiarelli, D., C. Passera, M.C. Rulli, L. Rosa, and **P. D'Odorico** (2020), "Hydrological consequences of natural rubber plantations in Southeast Asia", *Land Degradation and Development*, 31:2060–2073. <https://doi.org/10.1002/ldr.3591>.
53. Tu, C., S. Suweis, and **P. D'Odorico**, "Critical slowing down associated with critical transition and risk of collapse in cryptocurrency", *Royal Society Open Science*, 7: 191450. <http://dx.doi.org/10.1098/rsos.191450>.
54. Heslin, A., M. Puma, P. Marchand, J.A. Carr, J. Dell'Angelo, **P. D'Odorico**, J. A. Gephart, M. Kummu, M. Porkka, M.C. Rulli, D. A. Seekell, S. Suweis, A. Tavoni, "Simulating the cascading effects of an extreme agricultural production shock: global implications of a contemporary US Dust Bowl event", *Frontiers in Sustainable Food Systems*, 4(26).
55. Huang, H., Y. Feng, K. Yu, and **P. D'Odorico** (2020). "CAM plant expansion favored indirectly by asymmetric climate warming and increased rainfall variability", *Oecologia*, 193, 1-13.
56. Borsato, E., L. Rosa, P. Tarolli, F. Marinello, and **P. D'Odorico**, (2020). "Weak and Strong Sustainability of Irrigation: A Framework for Irrigation Practices Under Limited Water Availability", *Front. Sustain. Food Syst.* 4:17. doi: 10.3389/fsufs.2020.00017
57. Huang, H., **P. D'Odorico**, (2020) "Critical transitions in plant-pollinator systems induced by positive inbreeding-reward-pollinator feedbacks", *iScience* (2020), doi: <https://doi.org/10.1016/j.isci.2020.100819>.
58. Tathego M., A. Bhattachan, G. S. Okin, **P. D'Odorico** (2020). "Mapping areas of the Southern Ocean where productivity likely depends on dust-delivered iron", *J. Geophys. Res.–Atmospheres*, 125, e2019JD030926; doi.org/10.1029/2019JD030926.

59. Hassani A., A. Azapagic, **P. D'Odorico**, A. Keshmiri, N. Shokri, (2020). "Desiccation crisis of saline lakes: A new decision-support framework for building resilience to climate change", *Science of Total Environment*, 703(10), 134718.
60. Wang, L., and **P. D'Odorico** (2019). "Water limitations to large-scale desert agroforestry projects for carbon sequestration", *Proceedings of the National Academy of Science U.S.A.*, *pnas.org/cgi/doi/10.1073/pnas.1917692116*.
61. Rosa, L., D. Chiarelli, C. Tu, M.C. Rulli, and **P. D'Odorico**, (2019). "Global unsustainable virtual water flows in agricultural trade", *Environm. Res. Lett.*, 14, 114001.
62. Webb, N., G.S. Okin, A. Bhattachan, **P. D'Odorico**, K. Dintwe, M. Tatlhego (2019), " Ecosystem dynamics and aeolian sediment transport in the southern Kalahari" *African Journal of Ecology*, 2019;00:1–8. <https://doi.org/10.1111/aje.12700>.
63. Huang, H., K. Yu, Y. Fan, and **P. D'Odorico** (2019), "The competitive advantage of C4 grasses over CAM plants under increased rainfall variability", *Plant and Soil*, 442(1–2), 483–495.
64. Tu, C., S. Suweis, and **P. D'Odorico**, (2019). "Impact of globalization on the resilience and sustainability of natural resources", *Nature Sustainability*, 2, 283–289.
65. Meyer, T., P. Holloway, T.B. Christiansen, J.A. Miller, **P. D'Odorico**, and G. S. Okin, (2019). "An Assessment of Multiple Drivers Determining Woody Species Composition and Structure: A Case Study from the Kalahari, Botswana", *Land*, 8(8), 122; <https://doi.org/10.3390/land8080122>.
66. Saha, M.V., **P. D'Odorico**, and T.M. Scanlon, (2019). "Kalahari wildfires drive continental post-fire brightening in sub-Saharan Africa", *Remote Sens.* 2019, 11, 1090; doi:10.3390/rs11091090.
67. Yu, K., **P. D'Odorico**, S. L. Collins, D. Carr, A. Porporato, W. R. L. Anderegg, W. P. Gilhooly III, L. Wang, A. Bhattachan, M. Bartlett, S. Hartzell, J. Yin, Y. He, W. Li, M. Tatlhego, and J. D. Fuentes (2019). The competitive advantage of a constitutive CAM species over a C4grass species under drought and CO₂ enrichment, *Ecosphere* 10(5):e02721. [10.1002/ecs2.272](https://doi.org/10.1002/ecs2.272).
68. **D'Odorico P.**, J.A. Carr, K. F. Davis, J. Dell'Angelo, DA Seekell (2019). "Food inequality, injustice, and rights", *BioScience*, 69(3), 180-190, <https://doi.org/10.1093/biosci/biz002>.
69. **D'Odorico, P.**, J.A. Carr, C. Dalin, J. Dell'Angelo, M. Konar, F. Laio, L. Ridolfi, L. Rosa, S. Suweis, M. Tuninetti, (2019). Global virtual water trade and the hydrological cycle: Patterns, drivers, and socio-environmental impacts, *Environmental research Letters*, 14, 053001. <https://doi.org/10.1088/1748-9326/ab05f4>.
70. Rulli, M.C., S. Casirati, J. Dell'Angelo, K.F. Davis, C. Passera, **P. D'Odorico**, (2019). "Interdependencies and recoupling of oil palm expansion at the expense of Indonesian rainforest", (2019). *Renewable & Sustainable Energy Reviews*, 105: 499-512, <https://doi.org/10.1016/j.rser.2018.12.050>.
71. Fan, Y., X. Li, H. Huang, X. Wu, K. Yu, J. Wei, Junqi, C. Zhang, P. Wang, Pei, X. Hu, **P. D'Odorico**, (2019). "Does phenology play a role in the feedbacks underlying shrub encroachment?", *Science of Total Environment*, 657: 1064-1073, [10.1016/j.scitotenv.2018.12.125](https://doi.org/10.1016/j.scitotenv.2018.12.125).
72. Rosa, L and **P. D'Odorico** (2019). "The water-energy-food nexus of unconventional oil and gas extraction in the Vaca Muerta Play, Argentina", *J. Cleaner Production*, 207:743-750. <https://doi.org/10.1016/j.jclepro.2018.10.039> .[*]
73. Saha, M., T.M. Scanlon, and **P. D'Odorico**, (2019). "Climate seasonality as an essential predictor of global fire activity", *Global Ecol. Biogeogr.* 29(2), 198-210. DOI: 10.1111/geb.12836. [*]
74. Pivato, M., L. Carniello, I. Moro, and **P. D'Odorico**, (2019). "On the feedback between water turbidity and microphyto-benthos growth in shallow tidal environments", *Earth Surface Processes & Landforms*, 44, 1192–1206, <https://doi.org/10.1002/esp.4567>.
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284. **D'Odorico, P.**, and R. Rigon, "Hillslope and channel contributions to the hydrologic response", *Water Resour. Res.* 39(5), 1: 1-9, 2003.
285. Ridolfi, L., **P. D'Odorico**, A. Porporato, and I. Rodriguez-Iturbe, "Stochastic soil moisture dynamics along a hillslope", *J. Hydrol.*, 272, 264-275, 2003.
286. **D'Odorico, P.**, F. Laio, A. Porporato, and I. Rodriguez-Iturbe, "Hydrologic controls of soil carbon and nitrogen cycles II. A case study", *Adv. Water Resour.* 26(1), 59-70, 2003.
287. Porporato, A., **P. D'Odorico**, F. Laio, and I. Rodriguez-Iturbe, "Hydrologic controls of soil carbon and nitrogen cycles I. Modelling scheme", *Adv. Water Resour.* 26(1), 45-58, 2003.
288. Porporato, A., **P. D'Odorico**, F. Laio, L. Ridolfi, and I. Rodriguez-Iturbe, "Ecohydrology of water-controlled ecosystems", *Adv. Water Resour.* 25(8-12), 1335-1348, 2002.
289. **D'Odorico, P.**, and J.C. Yoo, "Spring Phenology and the North Atlantic Oscillation", *B. Am. Meteorol. Soc.* 83, 1465-1466, 2002 [*].
290. Yoo, J.C. and **P. D'Odorico**, "Trends and fluctuations in the dates of ice break-up of lakes and rivers in Northern Europe: the effect of the North Atlantic Oscillation", *J. Hydrol.* 268(1-4), 100-112, 2002 [*].
291. **D'Odorico, P.**, J.C. Yoo, and S. Jager, "Changing seasons: an effect of the North Atlantic Oscillation?", *J. Clim.*, 15(4), 435-445, 2002 [*].
292. Perona, P., **P. D'Odorico**, A. Porporato, and L. Ridolfi, "Reconstructing the temporal dynamics of snow cover from observations", *Geophys. Res. Lett.*, 28(15), 2975-2979, 2001.
293. **D'Odorico, P.**, J.C. Yoo and T.M. Over, "An assessment of ENSO-Induced Patterns of Rainfall Erosivity in the Southwestern United States", *J. Clim.*, 14, 4230-4242, 2001 [*].
294. **D'Odorico, P.**, A. Porporato and L. Ridolfi, "Transition between stable states in the dynamics of soil development", *Geophys. Res. Lett.*, 28(4), 595-598, 2001.
295. **D'Odorico, P.**, "A possible bistable evolution of soil thickness", *J. Geophys. Res. (Solid Earth)*, 105 (B11), 25,927-25,935, 2000.
296. Ridolfi, L., **P. D'Odorico**, A. Porporato and I. Rodriguez-Iturbe, "Duration and frequency of water stress in vegetation: an analytical model", *Water Resour. Res.*, 36(8), 2297-2307, 2000.
297. **D'Odorico, P.**, L. Ridolfi, A. Porporato and I. Rodriguez-Iturbe, "Preferential states of seasonal soil moisture: the impact of climate fluctuations", *Water Resour. Res.*, 36(8), 2209-2219, 2000.
298. **D'Odorico, P.**, R. Revelli and L. Ridolfi, "On the use of neural networks for dendroclimatic reconstructions", *Geophys. Res. Lett.*, 27(6), 791-793, 2000.

299. Ridolfi, L., **P. D'Odorico**, A. Porporato and I. Rodriguez-Iturbe, "Impact of climate variability on the vegetation water stress", *J. Geophys. Res. (Atmospheres)*, 105(D14), 18013-18025, 2000.
300. Porporato, A., **P. D'Odorico**, L. Ridolfi and I. Rodriguez-Iturbe, "A spatial model for soil-atmosphere interaction: model construction and linear stability analysis", *J. Hydrometeorol.*, 1(1), 61-74, 2000.
301. **D'Odorico P.** and I. Rodriguez-Iturbe, "Space-time fractal organization of mesoscale rainfall and soil moisture", *Adv. Water Resour.*, 23(4), 349-357, 2000.
302. Rodriguez-Iturbe, I, **P. D'Odorico**, A. Porporato and L. Ridolfi, "On the spatial and temporal links between vegetation, climate and soil moisture", *Water Resour. Res.*, 35(12), 3709-3722, 1999.
303. Rodriguez-Iturbe, I, **P. D'Odorico**, A. Porporato and L. Ridolfi, "Tree-Grass coexistence in savannas: the role of spatial dynamics and climate fluctuations", *Geophys. Res. Lett.*, 26(2), 247-250, 1999.
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305. Rodriguez-Iturbe, I, **P. D'Odorico** and A. Rinaldo, "Possible self-organizing dynamics for land-atmosphere interactions", *J. Geophys. Res.*, 103(D18), 23,071-23,077, 1998.
306. Rodriguez-Iturbe, I, **P. D'Odorico** and A. Rinaldo, "Configuration entropy of fractal landscapes", *Geophys. Res. Lett.*, 25(7), 1,015-1,018, 1998.

Book Chapters

1. Rosa L., M.C. Rulli, and P. D'Odorico, (2020). "Water Stranding in the Energy and Agriculture Sectors: The Case of Hydraulic Fracturing in Water Scarce Irrigated Regions", *Water Resources and Economic Processes*, 98-114.
2. J Yin, A Porporato, P D'Odorico, I Rodriguez-Iturbe, 2019. Ecohydrology, *Encyclopedia of Water: Science, Technology, and Society*, 1-21
3. Dell'Angelo, J., MC Rulli, P. D'Odorico (2021), "Global water grabbing and food insecurity", in *Food Insecurity: A matter of justice, sovereignty, and survival*, T. Mayer and M.D. Anderson Editors, Routledge.
4. D'Odorico, P., and I. Rodriguez-Iturbe, Sustaining Water Resources, invited chapter, in "Health of People, Health of Planet, and Our Responsibility", to be published Pontifical Academy of Sciences, 2018.
5. Carr, J. A., & D'Odorico, P. (2017). The water–food nexus and virtual water trade. In: S. Islam and K. Madani, Eds. *Water Diplomacy in Action: Contingent Approaches to Managing Complex Water Problems*, 95-109. Anthem Press, London.
6. D'Odorico, P., Ravi, S., 2016. "Land Degradation and Environmental Change". In: Shroder, J.F., Sivanpillai, R. (Eds.), *Biological and Environmental Hazards, Risks, and Disasters*. Elsevier, pp. 219–227. ISBN: 9780123948472.
7. Crouzy B, D'Odorico P, Perona P. Ecomorphodynamic conditions for the emergence of river anabranching patterns. In: *River flow 2014*. The Netherlands: CRC Press/Balkema Leiden; 2014. <http://dx.doi.org/10.1201/b17133-151> .
8. Wang, L. and **P D'Odorico**, "Ecological Processes: Decomposition and Mineralization", *Encyclopedia of Ecology*, Elsevier, 2008 [*].
9. S. Scarsoglio, F. Laio, **P. D'Odorico**, and L. Ridolfi, Stochastic frameworks for understanding pattern **and** Basic stochastic processes able to induce ordered structures, in *Patterns of land degradation in drylands. Understanding self-organized ecogeomorphic systems* (Springer, Utrecht, The Netherlands, ed.), ISBN: 978-94-007-5726-4, May 2013.

Invited seminars

- Texas A&M University, Civil Engineering Department, College Station (TX), May 1999.
- Duke University, Earth and Ocean Science Division, Durham (NC), April 2001.
- American Geophysical Union, Invited Poster, Spring Meeting, Washington, D.C., 2002.
- University of Trento, Dipartimento di Ingegneria Civile e Ambientale, Trento (Italy), 2003.
- International Institute of Applied System Analysis (IIASA), Control of Distributed Systems and Environmental Application Group, Vienna, May, 2003.
- Florida State University, Geology Department, Tallahassee (FL), October 2003.
- U.C. Berkeley, Department of Environmental Sciences, Policy and Management, Berkeley, February 2004.
- Politecnico di Torino, Dipartimento di Idraulica e Trasporti, Turin (Italy), February, 2005.
- Cornell University, Department of Biological and Environmental Engineering, Ithaca, March 2005.

- Seminar on “Water-Vegetation interactions and Biodiversity in Changing Environments” Summer School on *Fundamental Problems in Geophysical and Environmental Fluid Mechanics*, Aosta, June 2005.
- Asia-Oceania Geosciences Society's Annual Meeting, Ecohydrology Session, Singapore, June 2005.
- Joint Symposium on Long-term Ecological Research Programs (17th Annual Jornada Symposium), Las Cruces, New Mexico July 28, 2007.
- University of Texas, El Paso, TX, October 2007.
- Stanford University, April 2008.
- Università di Padova, December 2008.
- University of Minnesota, St. Anthony Falls Laboratory, September 2009.
- University of Virginia, October 2009.
- Ecole Polytechnique Fédérale de Lausanne, Lausanne, November 2009.
- Lehigh University, February, 2010.
- Duke University, March 2010.
- Boston University, April 2010.
- Columbia University, April 2010.
- Monash University, Melbourne, May 2010.
- Latsis Ecohydrology Workshop, Ecole Polytechnique Fédérale de Lausanne, Lausanne, October 2010.
- WSL-Institut für Schnee- und Lawinenforschung SLF, Davos, February, 2011.
- Ecole Polytechnique Fédérale de Lausanne, Lausanne, April 2011.
- Duke University, Symposium on seasonal ecosystems, June 2011.
- Berkeley Atmospheric Science Symposium, February 2012.
- Princeton University, March 2012.
- Cornell University: The Brutsaert-Parlange Symposium, May 2012.
- Politecnico di Torino, Turin, June 2012.
- Congress of the United States of America, Briefing on Water Security, Association of Ecosystem Research Centers, October, 2012.
- Research Symposium on “The Role of Ecosystem Science in National Security”, The Smithsonian Institute, Association of Ecosystem Research Centers, October, 2012.
- Leonardo Conference on “Water and Society”, Invited Speaker, *European Geophysical Union*, November 2012, Torino, IT
- UC Santa Barbara, Departmental Seminar, February, 2013.
- Ben-Gurion University of the Negev: Invited speaker - Workshop “*Ecohydrology of semiarid environments: Confronting mathematical models with ecosystem complexity*”, 20-22 May 2013, Beer-Sheva, Israel.
- Italian Society of Agricultural Engineering (AIIA) Meeting, Keynote Lecture, Viterbo, September 2013.
- Batten School of Public Policy, University of Virginia, September 2013.
- University of Illinois Urbana Champaign, Departmental Seminar, January, 2014.
- Vanderbilt University, Departmental Seminar, April, 2014.
- Environmental Science Department, University of Virginia, April, 2014.
- Istituto Veneto di Scienze Lettere e Arti, Venice, June 2014.
- Cold and Arid Regions Environmental, Chinese Academy of Sciences, Lanzhou, July 2014.
- National Center for Social Environmental Synthesis, Annapolis, MD, February, 2015.
- Department of Environmental Sciences Policy and Management, University of California, Berkeley, 2015.
- Geography Department, University of California, Los Angeles, April 2015.
- University of Trento, July 2015.
- Duke University, February, 2016.
- U.C. Irvine, September 2016.
- U.C. Berkeley, Geography Colloquium, February 2017.
- Lawrence Berkeley National Laboratory, Distinguished Speakers Series, May 2017
- Minho University, Inauguration Institute for Science & Innovation, Keynote Speaker, Braga, October, 2017
- University of Notre Dame, December 2017
- University of Nevada, Reno, February 2018
- Texas A&M University, Department of Ocean Engineering, March 2018
- University of Texas, Austin, Department of Geography March 2018.
- University of Maryland, August 2018.
- Saint Anthony Falls Laboratory, University of Minnesota, October 2018.
- Department of Civil and Environmental Engineering, University of California, Berkeley, January 2019.
- University of California, Merced, March 2019.

- School of Architecture, UC. Berkeley, April 2019.
- Water and Justice, Inaugural Talk, Environmental Resilience Institute, University of Virginia, May 2019.
- Water Futures Conference, Università di Padova, June 2019.
- European Commission Briefing on the Land-Food-Energy-Water Nexus, Technical Centre for Agricultural and Rural Cooperation (CTA), Brussels.
- University of California, Davis, October 2019.
- Northwest A&F University, Yangling, November 2019
- Bolin Center for Climate Research, Stockholm University, June 2020
- Santafe Institute, Santafe, October 2020
- Berkeley Energy and Resources Collaborative (BERC) Symposium, October 2020
- Earth and Planetary Science Department, UC Berkeley, October 2020
- Stockholm Resilience Center, March 2021
- EPSCOR Program, University of New Mexico, April 2021
- Dipartimento di Fisica “Galileo Galilei”, University of Padua, May 2021
- Circular Economy, University of Padua Alumni Association, May 2021
- Polytechnic of Milan, June 2021.
- University of Texas, El Paso, October 2021
- Carnegie Institute of Global Ecology, Palo Alto, March 2022.
- UN Meeting of water sustainability, Capo Verde, February 2023.
- University of Padova – 800 AQVA-Year Celebration of the University, Keynote Speaker, February 2023.
- University of Rome 2 Torvergata, March 2023.
- INRAE-CAMPUS AGRO PARIS SACLAY, Paris, April 2023.
- Food and Agriculture Organization, UN, Rome, May 2023
- University of Trento, Ph.D. Days, May 2023
- Desert Research institute, Reno, NV, October 2023
- University of Virginia, Charlottesville, VA, October 2023
- University of California, Santa Barbara, CA, October 2023
- U.S. National Academies, Meeting on Environmental Migrations. March 2024.
- Pennstate University, April, 2024.
- Università Sapienza, Rome, May 2024
- Santafe Institute, August, 2024
- University of Alabama, Tuscalusa, September 2024
- Stanford University, Palo Alto, September 2024

- **Graduate and Postgraduate Advisors**

Prof. Andrea Rinaldo, Università di Padova (Doctorate)

Prof. Ignacio Rodriguez-Iturbe (Postdoctorate)

Postdocs Advised

Dr. Luigia Brandimarte (2002-2004)

Dr. Matthew Baddock, (2010-2011)

Dr. Joel Carr (2011-2015)

Dr. Christiane Runyan (2013-2015)

Dr. Abinash Bhattachan (2013-2015)

Dr. Zak Ratajczak (2014-2016)

Dr. Jampel Dell'Angelo (2014-2017)

Dr. Chengyi Tu (2017-2021)

Dr. Tobia Rinaldo (2023-)

Doctoral Students Advised

Jae-Chan Yoo, Water Resources Engineering, Texas A&M University, 1998-2002.

Ryan Emanuel, Environmental Sciences, University of Virginia, 2003-2007 (Associate Professor, Duke University)

Sujith Ravi, Environmental Sciences, University of Virginia, 2005-2008 (Associate Professor, Temple Univ.)

Lixin Wang, Environmental Sciences, University of Virginia, 2004-2008 (Professor, Indiana Purdue Univ)

Joel A. Carr, Environmental Sciences, University of Virginia, 2007-2011 (Research Scientist at USGS).

Yufei He, Environmental Sciences, University of Virginia, 2008-2014 (Postdoc at Boston Univ.)

Abinash Bhattachan, Environmental Sciences, University of Virginia, 2009-2013 (Assistant Professor, Texas Tech. Univ.)

Thoralf Meyer, Environmental Sciences, University of Virginia, 2008-2014 (Associate Professor, UT, Austin)
Christiane W. Runyan, Environmental Sciences, University of Virginia, 2009-2013 (Lecturer at J. Hopkins Univ.)
Kyle Davis, Environmental Sciences, University of Virginia, 2011-2016 (Assistant Professor, University of Delaware)
Michael Saha, Environmental Sciences, University of Virginia, 2012-2018 (now at Facebook)
Kailiang Yu, Environmental Sciences, University of Virginia, 2012-2016 (Postdoc at Princeton University).
Mokganeedi Tatlhego, Environmental Sciences, University of California, Berkeley, 2017-2021
Lorenzo Rosa, Environmental Science, Policy, Management, University of California, Berkeley, 2017-2020 (PI, Carnegie Institute of Global Ecology and Adjunct Assistant Professor Stanford University)
Heng Huang, Environmental Science, Policy, Management, University of California, Berkeley, 2017-2020 (Assistant Prof.)
Areidy Beltran, Environmental Science, Policy, Management, University of California, Berkeley, 2018-2023 (Postdoc at Stanford University)
Robin Lopez, Environmental Science, Policy, Management, University of California, Berkeley, 2018-
Sarah Hartman, Environmental Science, Policy, Management, University of California, Berkeley, 2019-2024
Benji Reade-Malagueno, Environmental Science, Policy, Management, University of California, Berkeley, 2022-

Master's Students Advised

Mr. Mokganeedi Tatlhego, Environmental Sciences, University of Virginia, 2015-2016
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

Teaching

Principles of Natural Resource Management (DEVP227, Spring 2022; 2024)
Terrestrial Hydrology (ESPM c130, Spring 2020).
Sustainable Water and Food Security (ESPM177, Spring 2017; Spring 2018; Spring 2019), UC Berkeley.
Forest Hydrology (ESPM 130A, 2019; 2024), UC Berkeley.
Environmental Hydrology (ESPM 130A, 2018), UC Berkeley.
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.
Global Food Security and the Environment (Spring 2014, 4th year Undergraduate)
Water Resources Engineering. (CVEN 339 - Undergraduate, taught for 4 semesters), Texas A&M University.
Surface Water Hydrology (CVEN 627 - Graduate), Texas A&M University.
Advanced Hydraulic Engineering (CVEN 628 - Graduate), Texas A&M University.