

**Pablo A. Chevesich**  
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Researcher, Professor, consultant, expert witness, and author in the field of watershed hydrology and management, with a strong focus on hydrological processes, erosion/sedimentation processes and control, land restoration, stormwater management, post-fire rehabilitation, and climate change mitigation, with 18+ years of experience in the US, Europe, Africa, South America, and Central America. Fluent in English and Spanish. *Currently:* Research Assistant Professor at Colorado School of Mines (Department of Civil and Environmental Engineering); Member of the International Hydrological Programme (also Director of the International Sediment Initiative) for Latin America and the Caribbean of UNESCO; Scientific Advisor for the International Erosion Control Association (Iberoamerican Chapter); and Adjunct Assistant Professor at the University of Arizona (Department of Hydrology and Atmospheric Sciences & Department of Biosystems Engineering).

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#### Academic background

- Ph. D. Agricultural and Biosystems Engineering. University of Arizona (2009)
- M. Sc. Watershed Management. University of Arizona (2005)
- B. Sc. Forest Engineering. University of Chile (2001)

#### Skills

Research, teaching, and consulting in the following areas:

- Land/stream restoration
- Soil erosion/sediment processes and control
- Watershed management
- Soil and water conservation practices
- Surface processes
- Climate change
- Water resources engineering and planning
- Watershed hydrology (including stormwater management, urban hydrology, and forest hydrology), BMPs, Clean Water Act, water quality, sediment dynamics
- Project engineering and management
- Grant writing, including budget estimation

- Multi-tasking abilities
- Ability to work under pressure and deadlines
- Strong organizational, leadership, and problem solving skills
- Excellent interpersonal skills
- Public relations, project marketing, customer interactions, and supervision of personnel

#### Non-profit experience

- Member. International Hydrological Programme, Water and Forests Program, International Sediment Initiative Program, and Water and Education Program. United Nations Educational, Scientific, and Cultural Organization (UNESCO).
- Scientific Advisor. International Erosion Control Association. Iberoamerican Chapter.
- Co-founder. Watershed Management Group. Tucson, AZ.
- Member. Arizona Hydrological Society.

#### Work experience

Independent consultant, professor, researcher, expert witness, and author:

#### **Research:**

- Chosen “Chile’s 2019’s Outstanding Research Hydrologist”. UNESCO. International Hydrological Programme (Chilean Commission).
- Researcher at Colorado School of Mines (Faculty of Civil and Environmental Engineering). Watershed restoration at abandoned mine sites in South America (2019-Present).
- Founder and Director. “International Hydrology Research Group” (University of Chile) (2016-2019).
- Water Resources Scientist at the Forest Institute, Government of Chile (research, grant writing, training, conferences, public relations, consulting, publications, all in water resources-related topics, including climate change mitigation and watershed planning) (2010-2014).
- Research Specialist and Research Assistant at the University of Arizona/US Forest Service. Establishment, monitoring, and data analysis on 14 experimental watersheds in Arizona and New Mexico. Data included hydrology, forest inventory, herbage production, soil erosion, soil water repellency, and wildlife (2002-2013).
- Principal Investigator for “Land reclamation on Easter Island: a demonstration project”, funded by the International Erosion Control Association (2010-Present).
- Research Associate. Technological Center for Environmental Hydrology. University of Talca (Chile). Research and development projects related to water resources engineering (2008-Present).

- Creator and Director of the Water Research Center at Santo Tomás University (Chile). Project engineering and management. Research and development of projects related to hydrology, desertification, soil erosion control, and watershed management, including the establishment of an experimental watershed in central Chile. Also, public relations, project marketing, and consulting in water resources topics. Customer interactions and supervision of personnel (2006-2007).
- Research Assistant at the Laboratory of Tree-Ring Research, University of Arizona (2005). Measurement and stable isotope extraction from archaeological wood. Also, sampling and analysis of tree-rings from *Cedrus Atlantica* and *Pinus Nigra* in Morocco and Algeria, for climate reconstruction (2005).
- Hydrology Technician. Watershed Research Center (USDA Agricultural Research Service). Research in hydrology and erosion processes and control (2004-2005).
- Research Assistant on a scrap tire-based land restoration project in Nogales, Mexico. Project founded by the International Arid Land Consortium (2003).

### **Teaching and Faculty Appointments:**

- Research Assistant Professor. Colorado School of Mines. Faculty of Civil and Environmental Engineering. Golden, Colorado, USA (2019-Present).
- Associate Professor. University of Chile. Faculty of Forest Engineering and Nature Conservancy. Santiago, Chile (2016-Present).
- Teaching graduate, undergraduate, and short courses in hydrology, erosion/sediment control, and land restoration in North America (AZ, HI, CO, FL, and Mexico), Central America (Panama, Costa Rica, and Cuba), South America (Argentina, Chile, Brazil, and Colombia), and Europe (Spain), in both English and Spanish (2007-Present).
- Adjunct Assistant Professor. University of Arizona. Department of Hydrology and Atmospheric Sciences (2013-Present).
- Affiliate Professor. University of Hawaii at Hilo. College of Agriculture, Forestry, and Natural Resources Management. Soil and Water Engineering Department (2011-Present).
- Adjunct Assistant Professor. University of Arizona. Department of Agricultural and Biosystems Engineering (2010-Present).
- Faculty Member. International Erosion Control Association (2009-Present).
- Faculty Member. Universidad Santo Tomás. Faculty of Agronomy and Forest Engineering (2006-2007).
- Adjunct Faculty Member. Pontificia Universidad Católica de Chile. Faculty of Agronomy and Forest Engineering (2006-2007).
- Creator and coordinator (also instructor) of the first Watershed Management Diplomat in Chile (2007).

### **Consulting:**

- Expert Witness. Surface hydrology, stormwater management, erosion/sediment processes and control, water quality, land restoration, climate change, water resources planning, wildfire hydrology, and arid land management.
  - INTOTA Expert Consulting and Expert Witness Services (2008-Present)

- Forensis Group Expert Witness Services (2014-Present)
  - IMS Expert Services (2015-Present)
  - Expert Consulting Services, Inc. (2015-Present)
- Professional consultant. Water resources-related research projects in the US and South America (2004-Present).

#### Other activities:

- Editor. AquaLAC Journal (Unesco) (2019-Present).
- Editor. Ingeniería del Agua Journal (2017-2020).
- Editor in Chief. Special Issue "Sustainable Water Resources Management under Growing Anthropic Demands and the Effects of Climate Change". Sustainability Journal (2021-2022).

#### Publications

##### Books:

- García-Chevesich, P. R. Val, G. Martínez, A. Alvarez, O. Luna, P. Maya, R. Pizarro y M. Pizarro-Granada (Eds.). **2021**. *Educación infantil sobre el cuidado del agua: la experiencia de 11 países de las Américas y el Caribe*. Grupo de Trabajo Educación y Cultura del Agua para América Latina y el Caribe (Unesco), y Cátedra Unesco Hidrología de Superficie. Universidad de Talca, Talca, Chile. 184 p.
- García-Chevesich, P., R. Pizarro, C. Lehmann y G. Martínez (Eds.). **2021**. *Estado actual de la gestión de sedimentos en nueve países de las Américas*. United Nations Educational, Scientific, and Cultural Organization. Iniciativa Internacional de Sedimentos. Montevideo, Sede Regional. Documento Técnico #44. 130 p.
- Rosengaus, M., F. Arreguín, A. Pujol, H. Marengo, P. Garcia-Chevesich, M. Teal, A. Morales, S. Mogliati, L. Vásquez, G. Gutiérrez, V. H. Alcocer, F. González, A. Paredes, and D. Espinoza. **2020**. *Seguridad de presas y cambio climático*. Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura. 32 p.
- Pizarro, R., C. Sangüesa, C. Vallejos, R. Mendoza, J. Pino, A. Berríos, A. Ibañez, B. Castillo, A. Bernal, P. Garcia-Chevesich, J. Arumi, A. Iroumé. **2020**. *Antecedentes de la relación masa forestal y disponibilidad hídrica en Chile*. Programa Hidrológico Internacional de Unesco. Documento Técnico N°41. 38 p.
- Garcia-Chevesich, P., M. Castillo, R. Garfias, P. Triana, and A. Zambrano, and R. Pizarro (Eds.). **2019**. *Proceedings. IX Congreso Iberoamericano de Control de Erosión y Sedimentos & II Congreso Iberoamericano de Sedimentos y Ecología*. Santiago, Chile. 26-28 septiembre de 2018. Published by Universidad de Chile (Facultad de Ciencias Forestales y Conservación de la Naturaleza). 855 p.
- Garcia-Chevesich, P., D. Neary, D. Scott, R. Benyon, and T. Reyna (Eds.). **2017**. *Forest management and the impact on water resources: a review of 13 countries*. United Nations Educational, Scientific, and Cultural Organization. International Hydrological Programme. 204 p.
- Garcia-Chevesich, P. **2016**. *Erosion control and land restoration*. Outskirts Press. Denver, CO. 486 p.

- Garcia-Chevesich, P. **2015**. *Control de la erosión y recuperación de suelos degradados*. Outskirts Press. Denver, CO. 486 p.
- Pizarro, R., A. Abarza, C. Morales, R. Calderón, J. Tapia, P. García, and M. Córdoba. **2015**. *Manual de diseño y construcción de sistemas de captación de aguas lluvia en zonas rurales de Chile*. United Nations Educational, Scientific, and Cultural Organization. International Hydrological Programme. 94 p.
- Jofré, P., C. Büchner, R. Ipinza, C. Bahamondes, S. Barros, P. Garcia-Chevesich, and J. Cabrera. **2014**. *Estado del arte: las plantaciones forestales y el agua*. Fundación para la Innovación Agraria (FIA) e Instituto Forestal de Chile (Infor). Gobierno de Chile. Ministerio de Agricultura. 120 p.
- Ffolliott, P., K. Brooks, R. Pizarro, P. Garcia-Chevesich, and D. Neary. **2013**. *Erosion and sediment processes on watershed landscapes*. United Nations Educational, Scientific, and Cultural Organization. 70 p.
- Garcia-Chevesich, P. y J. J. Aguirre. **2013**. *Manual de diseño de sistemas de cosecha de aguas lluvia, para uso domiciliario*. Instituto Forestal. Gobierno de Chile. 19 p.
- Varas, E., J. L. Ayuso, B. Ingram, I. Vidal, J. P. Flores, C. Sangüesa, M. Vera, C. Vallejos, C. Olivares, R. Pizarro, and P. Garcia-Chevesich. **2013**. *Aplicaciones Estadísticas en Hidrología: El Caso de las Intensidades de Precipitación y las Curvas IDF en la Zona Central de Chile*. University of Talca Press. Talca, Chile. 110 p.
- Garcia-Chevesich, P. **2009**. *Erosion processes and control*. Ph. D. Dissertation. University of Arizona. Department of Agricultural and Biosystems Engineering.
- Garcia-Chevesich, P. **2008**. *Procesos y control de la erosión*. Outskirts Press. Denver, CO. 274 p.
- Garcia-Chevesich, P. **2005**. *Changes in soil resources following a historical wildfire in Arizona*. M. Sc. Thesis. University of Arizona. School of Natural Resources. 79 p.
- Garcia-Chevesich, P. **2001**. *Characterization and proposition of silvicultural treatments on a tamarugo (*Prosopis tamarugo*) plantation located in Toconao, Region II of Chile*. Forest Engineering B. Sc. Thesis. University of Chile. Faculty of Forest Engineering. 64 p.

#### Book chapters:

- Pizarro, R., A. Ibáñez, P. Garcia-Chevesich, C. Vallejos, C. Sangüesa, and R. Mendoza. **2020**. The Chilean forest sector and its relationship with water resources. In: B. Fernández and J. Gironás (Eds.). *Water Resources in Chile*. Pp. 301-316.
- Garcia-Chevesich, P., A. Zambrano, R. Pizarro, R. Garfías, H. Venegas-Quñones, C. Estévez, and F. Pérez. **2021**. Capítulo 3. Estado Actual de los Sedimentos en Chile. En: Garcia-Chevesich, et al. (Ed.). *Estado actual de la gestión de sedimentos en nueve países de las Américas: Argentina, Brasil, Chile, Costa Rica, Cuba, México, Perú, Uruguay y Estados Unidos*. United Nations Educational, Scientific, and Cultural Organization. International Hydrological Programme. Pp 38-49.
- Garcia-Chevesich, S. L. Jones, J. M. Daniels, R. Valdés-Pineda, and R. Pizarro. **2021**. Capítulo 9. Estado actual del manejo de sedimentos en Estados Unidos. En: Garcia-Chevesich, et al. (Ed.). *Estado actual de la gestión de sedimentos en nueve países de las Américas: Argentina, Brasil, Chile, Costa Rica, Cuba, México, Perú, Uruguay y Estados Unidos*. United Nations Educational, Scientific, and Cultural Organization. International Hydrological Programme. Pp 106-125.

- Castillo-Soto, M., R. M. Garay, P. A. García-Chevesich, V. Radeloff, and P. A. Espinoza. **2017**. The risk of wildfires in Chile. In: Bento-Goncalves, A., A. A. Batista, V. M. R. Melo Costa, and J. T. Marques Aranha (Eds.). 2017. *Wildfires perspectives, issues, and challenges of the 21<sup>st</sup> century*. Nova Science Publishers. Pp. 55-80.
- Garcia-Chevesich, P., R. Valdes-Pineda, R. Pizarro, A. Iroumé, and C. Sangüesa. **2017**. Forest management and water in Chile. In: Garcia-Chevesich, P., D. Neary, D. Scott, R. Benyon, and T. Reyna (Eds.). *Forest management and the impact on water resources: a review of 13 nations*. United Nations Educational, Scientific, and Cultural Organization. International Hydrological Programme. Pp 44-53.
- Garcia-Chevesich, P. **2015**. *Rainwater harvesting practices in the United States*. In: Pizarro, R., A. Abarza, C. Morales, R. Calderón, J. Tapia, P. Garcia, and M. Córdova. Manual de diseño y construcción de sistemas de captación de aguas lluvia en zonas rurales de Chile. United Nations Educational, Scientific, and Cultural Organization. International Hydrological Program. Documento Técnico N°36. 94 p.
- Pizarro, R. P. Garcia-Chevesich, F. Balocchi, and R. Valdés. **2012**. *Chapter 11: IDF curves on south-central Chile*. In: Chile: Environmental, Political and Social Issues. Nova Science Publishers.
- Garcia-Chevesich, P. **2010**. *Factores que afectan la erosión y sedimentación*. En: Brea, J. D. y Balocchi, F. (Eds.). *Procesos de erosión – sedimentación en cauces y cuencas*. Volumen 1. United Nations Educational, Scientific, and Cultural Organization. Programa Hidrológico Internacional. PHI-VII / Documento Técnico N° 22. Pp. 9-18.
- Garcia-Chevesich, P. **2010**. *Metodologías de medición de la erosión y sedimentación*. En: Brea, J. D. y Balocchi, F. (Eds.). *Procesos de erosión – sedimentación en cauces y cuencas*. Volumen 1. United Nations Educational, Scientific, and Cultural Organization. Programa Hidrológico Internacional. PHI-VII / Documento Técnico N° 22. Pp. 36-50.

### Journal publications:

- Garcia-Chevesich, P. y D. G. Neary. **2021**. Incendios forestales, calentamiento global y erosión de suelos: causas, efectos y soluciones. *Revista Control de Erosión en Iberoamérica* 17: 4-11.
- Garcia-Chevesich, P. A., J. O. Sharp, and J. E. McCray. **2021**. Diversity and discrepancies in water-related university rankings: is there a need for more consistency or is there value in breadth? *Journal of Contemporary Water Research and Education* 172(4) 1-5.
- Gustafson, K. R., P. A. Garcia-Chevesich, K. M. Slinski, J. O. Sharp, and J. E. McCray. **2021**. Quantifying the effects of residential infill redevelopment on urban stormwater quality in Denver, Colorado. *Water* 13(7): 988.
- Wei, X., P. Garcia-Chevesich, F. Alejo, V. García, G. Martínez, F. Daneshvar, L. C. Bowling, E. Gonzáles, R. Krahenbuhl, and J. E. McCray. **2021**. Hydrologic analysis of an intensively irrigated area in southern Peru using a crop-field scale framework. *Water* 13(3): 318.
- Garcia-Chevesich, P., X. Wei, J. Ticona, G. Martinez, J. Zea, V. Garcia, F. Alejo, Y. Zhang, H. Flamme, A. Graber, P. Santi, J. McCray, E. Gonzales, and R. Krahenbuhl. **2021**. The impact of agricultural irrigation on landslide triggering: a review from Chinese, English, and Spanish literature. *Water* 13(1): 10.

- Pizarro, R., P. Garcia-Chevesich, J. Pino, A. Ibañez, F. Pérez, J. P. Flores, J. O. Sharp, B. Ingram, R. Mendoza, D. G. Neary, C. Sangüesa, and C. Vallejos. **2020**. Stabilization of stage-discharge curves following the establishment of forest plantations: implications for sediment production. *River Research and Applications* 36(9): 1828-1837.
- Garcia-Chevesich, P., V. García, G. Martínez, J. Zea, J. Ticona, F. Alejo, J. Vanneste, S. Acker, G. Vanzin, A. Malone, N. M. Smith, C. Bellona, and J. O. Sharp. **2020**. Inexpensive organic materials and their applications towards heavy metal attenuation in waters from southern Peru. *Water* 12: 2948.
- Venegas-Quiñones, H., M. Thomasson, and P. Garcia-Chevesich. **2020**. Water scarcity or drought? The cause and solution for the lack of water in Laguna de Aculeo. *Water Conservation & Management* 4(1) (2020) 42-50
- Lewis, T. B., P. A. Garcia-Chevesich, T. R. Wildeman, and J. O. Sharp. **2020**. Changes in surface water quality from small-scale gold mining operations in the Surinamean rainforest. *Journal of Toxicological and Environmental Chemistry* 102(7-8): 334-355.
- Valdés-Pineda, R., P. Garcia-Chevesich, J.B. Valdés, and R. Pizarro-Tapia. **2020**. The first drying lake in Chile: causes and recovery options. *Water* 12: 290.
- Garcia-Chevesich, P., E. Martínez, A. García, M. Castillo, R. Garfias, D. Neary, R. Pizarro, R. Valdés, L. González, H. Venegas-Quiñones, and C. Magni. **2019**. Formation of Post-Fire Water Repellent Layers on *Nothofagus glauca* (Hualo) Forests, After the Historical “Las Máquinas” Wildfire in South-Central Chile. *American Journal of Environmental Sciences* 15(1): 1-6.
- Pizarro, R., B. Ingram, F. Gonzalez-Leiva, R. Valdés-Pineda, C. Sangüesa, N. Delgado, P. García-Chevesich, and J. B. Valdes. **2018**. A Web-based System for the Estimation of IDF Curves in Central Chile. *Hydrology Journal* 40(5).
- Benedetti, S., F. Balocchi, M. Gonzalez, and P. Garcia-Chevesich. **2018**. Morphological characterization of sweet chestnut fruits from commercial timberwood plantations in central Chile (39°S). *Revista Ciencia e Investigación Agraria* 45(2): 138-146.
- Garcia-Chevesich, P., S. L. Jones, J. M. Daniels, R. Valdés-Pineda, H. Venegas-Quiñones y R. Pizarro. **2018**. Marco legislativo para la gestión de sedimentos en los Estados Unidos. *Revista Ingeniería del Agua* 22(2): 53-67.
- Sangüesa, C., R. Pizarro, A. Ibañez, J. Pino, D. Rivera, P. Garcia-Chevesich, and B. Ingram. **2018**. Spatial and temporal analysis of rainfall concentration using the GINI Index and PCI. *Water Journal* 10(2): 112.
- Garcia-Chevesich, P. **2017**. Evidence of Erosion and Weathering Processes Let an IECA Member Guess Where Abundant Liquid Water Might Be on Mars. *Environmental Connection* 12(4): 20-22.
- Garcia-Chevesich, P., Bendek, E., Pizarro, R., Valdes-Pineda, R., Gonzalez, D., Bown, H., Martínez, E. and Gonzalez, L. **2017**. Weathering processes on Martian craters: implications on recurring slope lineae and the location of liquid water. *Open Journal of Modern Hydrology* 7(4): 245-256.
- Castillo, M. J. Barrios, and P. Garcia-Chevesich. **2017**. Dempster-Shafer theory of evidence: a new approach to spatially model wildfire risk potential in central Chile. *Science of the Total Environment* 613-614: 1024-1030.
- Valdés-Pineda, R., Valdés, J. B., García-Chevesich, P. **2017**. Mudflow Modeling in the Copiapó Basin, Chile. *Ingeniería del Agua* 21(2): 135-152.
- Castillo, M. E., J. R. Molina, F. Rodríguez y Silva, P. Garcia-Chevesich, and R. Garfias. **2017**. A system to evaluate fire impacts from simulated fire behavior in Mediterranean areas of central Chile. *Science of the Total Environment* 579: 1410-1418.

- Garcia-Chevesich, P., S. Alvarado, D. Neary, R. Valdes, J. Valdes, J. Aguirre, M. Mena, R. Pizarro, P. Jofré, M. Vera, and C. Olivares. **2016**. La salud y la erosión en Santiago de Chile. *Revista Control de la Erosión en Iberoamérica* 12: 4-9 (Nota de tapa).
- Valdés-Pineda, R., R. Pizarro, J. B. Valdés, C. Olivares, and P. Garcia-Chevesich. **2015**. Spatio-temporal trends of precipitation, its aggressiveness and concentration, along the Pacific coast of South America (36°- 49° S). *Hydrological Sciences Journal* 61(11): 2110-2132.
- Garcia-Chevesich, P. And J. Etra. **2015**. The need to include local climates on Clean Water Act's erosion and sediment control regulations. *Environmental Connection* 9(4): 18-20.
- Garcia-Chevesich, P., R. Pizarro, and R. Valdes. **2015**. How forestry in the southern hemisphere can help address desertification and global climate change. *Journal of Forestry* 113(1): 72-74.
- Garcia-Chevesich, P., R. Valdés, D. Neary, and R. Pizarro. **2015**. Using rainwater harvesting techniques for firefighting purposes near forest plantations. *Journal of Tropical Forest Sciences* 27(1): 1-2.
- Garcia-Chevesich, P., R. Valdes, D. Neary, and R. Pizarro. **2015**. Minimizing post-fire erosion using rainwater harvesting practices. *Environmental Connection* 9(2): 24-25.
- Garcia-Chevesich, P., D. Neary, and R. Valdes. **2015**. The controversy over forest plantations and water use in Chile: myths, realities, international experience, and recommendations. Commonwealth Forestry Association's Newsletter.
- Valdés, R., Pizarro, R., Garcia-Chevesich, P., Valdés, J.B., Pérez, F., Olivares, C., Vera, M., Balocchi, F., Vallejos, C., Fuentes, R., and Abarza, A. **2014**. Water Governance in Chile: Availability, Management, and Climate Change. *Journal of Hydrology* 519(C): 2538-2567.
- Pizarro, R., R. Valdés, A. Abarza, and P. Garcia-Chevesich. **2014**. A Simplified Storm Index Method to extrapolate Intensity-Duration-Frequency (IDF) Curves for ungauged stations in Central Chile. *Hydrological Processes Journal* 29(5): 641-652.
- Garcia-Chevesich, P. **2014**. La ocurrencia de incendios forestales en Chile y sus consecuencias en la erosión y la hidrología de cuencas. *Mundo Forestal* 26: 45-49.
- Garcia-Chevesich, P., S. Alvarado, D. Neary, R. Valdes, J. Valdes, J. Aguirre, M. Mena, R. Pizarro, P. Jofré, M. Vera, and C. Olivares. **2014**. Respiratory disease and particulate air pollution in Santiago Chile: Contribution of erosion particles from fine sediments. *Journal of Environmental Pollution* 187(April): 202-205. DOI: 10.1016/j.envpol.2013.12.028.
- Garcia-Chevesich, P. **2013**. La carretera hídrica de Arizona y su replicabilidad en Chile. *Riego* 6: 35-36.
- Pizarro-Tapia, R., F. Balocchi-Contreras, P. Garcia-Chevesich, K. Macaya-Perez, Per Bro, L. León-Gutiérrez, B. Helwig, R. Valdés-Pineda. **2013**. On Redefining the Onset of Baseflow Recession on Storm Hydrographs. *Open Journal of Modern Hydrology* 3(4): 269-277.
- Pizarro, R., P. Garcia-Chevesich, R. Valdes, F. Dominguez, F. Hossain, P. Ffolliott, C. Olivares, C. Morales, F. Balocchi, and P. Bro. **2013**. Inland water bodies in Chile can locally increase rainfall intensity. *Journal of Hydrology* 481: 56-63.
- Pizarro, R. R. Valdes, P. Garcia-Chevesich, C. Vallejos, C. Sanguesa, C. Morales, F. Balocchi, A. Abarza, and R. Fuentes. **2012**. Latitudinal analysis of rainfall intensity and mean annual precipitation in Chile. *Chilean Journal of Agricultural Research* 72(2): 252-271.



- Garcia-Chevesich, P. and J. Etra. **2012**. Using vegetation to stabilize slopes. *Environmental Connection* 6(1): 28-29.
- Garcia-Chevesich, P. **2011**. Control de la erosión post-fuego. *Foresta* 54: 62-69.
- Garcia-Chevesich, P. **2011**. Control de la erosión post-fuego. *Control de la erosión en Iberoamérica* 7(1): 4-9.
- Garcia-Chevesich, P. **2011**. Efectos del fuego en el recurso suelo. *Mundo Forestal* 6(6): 12-15.
- Garcia-Chevesich, P., C. Black, T. Tuki, and R. Pizarro. **2010**. Easter Island project offers practical solutions for restored sustainability. *Environmental Connection* 4(4): 14-16.
- Garcia-Chevesich, P., R. Pizarro, C. L. Stropki, P. Ramirez de Arellano, P. F. Ffolliott, L. F. DeBano, D. G. Neary, and D. C. Slack. **2010**. Formation of post-fire water repellent layers in Monterrey pine (*Pinus radiata* D. Don) plantations in central Chile. *Journal of Soil Science and Plant Nutrition* 10(4): 399-406
- Garcia-Chevesich, P. **2010**. Helpful Guidelines for Effectively Using Pins to Measure Erosion Rates. *Environmental Connection* 4(2): 15-16.
- Garcia-Chevesich, P. **2008**. Post-fire water repellency and its consequences on soil erosion. *Environmental Connection* 2(3): 18-20.
- Neary, D.G. and P. Garcia-Chevesich. **2008**. Environmental impacts of mining-derived coastal sand dunes, Chañaral Bay, Chile. Arizona Hydrological Society Annual Meeting, September 22-23 (Published abstract).
- Neary, D.G. and P. Garcia-Chevesich. **2008**. Potential effects of recent climate change on municipal and agricultural water supplies in Chile. Arizona Hydrological Society Annual Meeting, September 22-23 (Published abstract).
- Neary, D.G. and P. Garcia-Chevesich. **2008**. Climate change impacts on municipal, mining, and agricultural water supplies in Chile. *Hydrology and Water Resources in Arizona and the Southwest* 38: 53-57.
- Neary, D.G. and P. Garcia-Chevesich. **2008**. Hydrology and erosion impacts of mining derived coastal sand dunes, Chañaral Bay, Chile. *Hydrology and Water Resources in Arizona and the Southwest* 38: 47-52.
- Garcia-Chevesich, P. P. Ffolliott, and D. Neary. **2004**. Soil erosion following the Rodeo-Chediski wildfire: an initial assessment. *Hydrology and water resources in Arizona and the southwest* 34 (1): 52-56.
- Gottfried, G., P. Ffolliott, P. Garcia-Chevesich, D. Valdez-Zamudio, and A. Al-Khouri. **2003**. Assessment of fire-damaged mesquite trees 8 years following an illegal burn. Pages 166-168 In: McClaran, Mitchel P.; Ffolliott, Peter F.; Edminster, Carleton B. (tech. coords.). Santa Rita Experimental Range: 100 Years (1903-2003) of Accomplishments and Contributions. Proceedings. RMRS-P-30. Odgen, UT: USDA Forest Service, Rocky Mountain Research Station.

#### Conference and seminar presentations:

- Speaker. **2018**. Water rights and indigenous population. Arica, Chile.
- Honor speaker. 2017. International Conference on Water Resources Management. Inacap Chillan, Chile.
- Speaker. **2017**. International Sediment Initiative Program: advances 2015-2017. United Nations Educational, Scientific, and Cultural Organization. XII meeting of Conaphis. Nassau, Bahamas.

- Speaker. **2017**. Water and Forest Systems Program: advances 2015-2017. United Nations Educational, Scientific, and Cultural Organization. XII meeting of Conaphis. Nassau, Bahamas.
- Speaker. **2017**. Seminar “Control de erosión y recuperación de zonas afectadas por incendios en base a la técnica de hidrosiembra” Universidad de Talca. Talca, Chile.
- Speaker. **2017**. Book release “Control de Erosión y Recuperación de suelos degradados” Universidad de Chile (Casa Central). Santiago, Chile (July 12, 2017)
- Speaker. **2017**. Book release “Forest management and the impact on water resources: a review of 13 countries”. VIII World Water Forum. Brasilia, Brazil.
- Guest speaker. **2017**. Seminario “Cambio climático, agua y educación ambiental”. Gobierno Regional Región Metropolitana. Universidad de Chile (Casa Central). Santiago, Chile.
- Guest speaker. **2017**. Sistemas de captación de aguas lluvia urbanos en los Estados Unidos. Seminario “Sistemas de cosecha de aguas lluvia y recarga de acuíferos”. CAZALAC, Unesco. Santiago, Chile.
- Guest speaker. **2017**. Panorama futuro de los recursos hídricos en América Latina. Euroclima (European Commission). Santiago, Chile.
- Speaker. **2017**. Post-fire mitigation in the United States. Colloquium on post-fire hydrology. University of Chile (Casa Central). Santiago, Chile.
- Speaker. **2017**. Post-fire mitigation in the United States. Colloquium on post-fire hydrology. University of Talca. Talca, Chile.
- Guest speaker. **2016**. Jornadas de Derechos de Agua. Universidad de Chile. Santiago, Chile.
- Guest speaker. **2016**. Conferencia Internacional sobre Control de la Erosión y los Sedimentos. Cartagena de Indias, Colombia.
- Guest speaker. **2016**. El desafío país que imponen los Recursos Hídricos 2016-2050: el rol de la Universidad de Chile. Santiago, Chile.
- Guest speaker. **2016**. University of Denver’s Seminar series. Denver, CO.
- Guest speaker. **2015**. International Seminar on Water and Forestry. International Hydrological Programme. United Nations Educational, Scientific, and Cultural Organization. Santiago, Chile.
- Guest speaker. **2015**. International Conference on Sediments and Ecology. Queretaro, Mexico.
- Guest speaker. **2014**. International Seminar on Rainwater Harvesting. Talca, Chile.
- Guest speaker. **2013**. International Seminar on Mitigation Strategies for Climate Change. Talca. Chile.
- Guest speaker. **2013**. International Seminar on Water Sustainability (Government of Chile). Antofagasta, Chile.
- Guest speaker. **2013**. International Seminar on Water and Forests (Government of Chile). Concepción, Chile.
- Guest speaker. **2012**. International Seminar on Sediment Management. International Sediment Initiative (UNESCO). Santiago, Chile.
- Guest speaker. **2011**. 27th International Conference on Erosion and Sediment Control (IECA). Orlando, FL.
- Guest speaker. **2011**. Modeling soil movement in arid and semiarid areas of northern Chile. Arizona-Nevada Academy of Sciences Conference. Phoenix, AZ.
- Honor speaker. **2010**. V Conference on Erosion and Sediment Control. International Erosion Control Association. Panama City, Panama.

- Guest speaker. **2007**. Watershed management and agriculture in Chile. International Seminar on Hydrology of Irrigated Areas. Mendoza, Argentina.
- Guest speaker. **2007**. Fire effects on soil loss in Ponderosa pine ecosystems. 57th Agronomic Conference of Chile. Santiago, Chile.
- Organizer, speaker, and mediator. **2007**. International Conference for Sustainable Management of Water Resources in Chile. Santiago, Chile.

#### Poster Papers

- Balocchi, F., R. Valdés, R. Pizarro, P. Garcia, and C. Morales. **2010**. Climate change contradictions and verifications in Chile. International Glaceological Conference (VICC). Ice and climate change: a view from the south. Abstract #150(176).
- García-Chevesich, P. y F. Vaccarezza. **2007**. Propuesta de cooperación conjunta UST / Conaf / Good-Year, para la recuperación de terrenos degradados mediante la utilización de neumáticos en desuso. En: II Congreso Interamericano de Residuos sólidos. 3-6 octubre. Viña del Mar, Chile.
- García-Chevesich, P. y F. Vaccarezza. **2007**. Estabilización de relaves e implementación de un sistema agroforestal en la bahía de Chañaral, III Región En: II Congreso Interamericano de Residuos sólidos. 3-6 octubre. Viña del Mar, Chile.
- Garcia-Chevesich, P. and A. Vita. **2002**. Characterization and proposition of silvicultural treatments for a Tamarugo (Prosopis Tamarugo) plantation in the Atacama Desert, Chile. International Arid Land Consortium Conference. Tucson, Arizona.