

Dr. Gordon Elliot Grant

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Professional Preparation

University of Oregon (Honors)	Biology, Independent Studies	B.S., 1977
Johns Hopkins University	Geomorphology (DOGEE)	Ph.D., 1986

Appointments

10/85 - present	Research Hydrologist, USDA Forest Service, Pacific Northwest Experiment Station, Corvallis, OR (ST-level)
5/03 - present	Professor (Courtesy), College of Earth, Ocean and Atmospheric Sciences and College of Forestry, Oregon State University, Corvallis, OR.
5/95-5/03	Associate Professor (Courtesy), Departments of Geosciences, Forest Science, and Forest Engineering, Oregon State University
4/85-5/95	Assistant Professor (Courtesy), Departments of Geosciences, Forest Science and Forest Engineering, Oregon State University.

Selected Honors and Awards

- Distinguished Career Award, Geological Society of America, Quaternary Geology and Geomorphology Division, 2023
- Fellow, American Geophysical Union, 2016
- Borland Lecturer in Hydraulics, 2015, American Geophysical Union 35th Annual Hydrology Days
- Fellow, Geological Society of America 2012
- University of Padova, Italy, 2008, Fellowship
- U.S. Forest Service Certificate of Merit, 2004, for “Publication of the book “A Peculiar River: Geology, Geomorphology, and Hydrology of the Deschutes River, Oregon
- U.S. Forest Service, Chief’s Honor Award for Excellence, 1998, “For innovative geomorphic research and concepts leading to improved strategies for managing public lands within a watershed perspective”.
- U.S. Department of Agriculture, Secretary’s Award for Superior Service, 1998, for “research providing new information and understanding of fundamental geomorphic and hydrologic processes in natural and managed watersheds, and improved strategies for managing public lands within a watershed perspective”

Professional Society Membership: AGU, Geological Society of America

Selected Synergistic Activities

2021- 2022	President, AGU Earth and Planetary Surface Processes Section (President-elect 2019-21)
2021	Chair, Search Committee for Editor-in-Chief, <i>Biogeosciences</i> (AGU journal)
2018-present	AGU College of Fellows Executive Committee
2018-present	Chair, College of Fellows New Frontiers Committee

- 2016-2019t Board of Directors, Consortium of Universities for the Advancement of Hydrologic Sciences (CUASHI); Chair 2017-2018
- 2007-2019 Member and Chair (2013-present), National Steering Committee, National Science Foundation Critical Zone Observatory Program
- 2014 Invited Member, Committee of Visitors, Surface Earth Processes section of NSF's Earth Sciences Division
- 2005-2012 *Water Resources Research*; Deputy Editor and Associate Editor

Research Narrative: I study the causes and consequences of fluvial and watershed change and evolution as a consequence of volcanic processes, climate variation, land management, dam construction, operation, and removal, and river restoration, using a critical zone lens.

Selected Recent Publications ([see wpg.forestry.oregonstate.edu](http://wpg.forestry.oregonstate.edu) for additional)

Dietterich, H. R., Grant, G. E., Fath, B., Major, J. J., & Cashman, K. V. (2022). Can lava flow like water? Assessing applications of critical flow theory to channelized basaltic lava flows. *Journal of Geophysical Research: Earth Surface*, 127(9), e2022JF006666.

Nash, C. S., Grant, G. E., Charnley, S., Dunham, J. B., Gosnell, H., Hausner, M. B., ... & Taylor, J. D. (2021). Great expectations: Deconstructing the process pathways underlying beaver-related restoration. *BioScience*, 71(3), 249-267

Stratton L.E., Grant G.E. 2019. Autopsy of a reservoir: facies architecture in a multi-dam system, Elwha River, Washington, USA. *GSA Bulletin*

Fan Y., Clark M., Lawrence D.M, Swenson S., Band L.E, Brantley S.L, Brooks P.D, Dietrich WE, Flores A., Grant G.E et al. 2019. Hillslope Hydrology in Global Change Research and Earth System Modeling. *Water Resources Research*. 55:35.

Foley M.M., Bellmore J.R., O'Connor J.E., Duda J.J., East A.E., Grant G.E., et al. 2017. Dam Removal - Listening In. *Water Resources Research*. 53(7):5229–5246.

Grant GE, Dietrich WE. 2017. The frontier beneath our feet. *Water Resources Research*. 53, 2605–2609, doi:10.1002/2017WR020835.

Grant G.E, O'Connor J.E, Wolman MG. 2013. A River Runs Through It: Conceptual Models in Fluvial Geomorphology. In *Treatise on Geomorphology*, JF Shroder, ed. Academic Press, San Diego 16p.

Grant, G.E., Tague, C.L. and Allen, C. 2013. Watering the Forest for the Trees: An emerging priority for managing water in forest landscapes. *Frontiers in Ecology and the Environment*. doi:10.1890/120209

O'Connor, J. E., Duda, J. J., & Grant, G. E. (2015). 1000 dams down and counting. *Science*, 348(6234), 496-497.