

## Gregg M. Garfin

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### A. PROFESSIONAL PREPARATION

<u>College/University</u>	<u>Location</u>	<u>Major</u>	<u>Degree &amp; Year</u>
University of Massachusetts	Amherst, MA	Geography and Geology	B.S. 1989
University of Massachusetts	Amherst, MA	Geography and Geology	M.S. 1992
University of Arizona	Tucson, AZ	Geosciences	Ph.D. 1998

### B. PROFESSIONAL APPOINTMENTS

University of Arizona, School of Natural Resources and the Environment  
2021 to present, Professor and Extension Specialist

University of Arizona, School of Natural Resources and the Environment  
2014 to 2021, Associate Professor and Associate Specialist

University of Arizona, School of Natural Resources and the Environment  
2010 to 2014, Assistant Professor and Assistant Specialist

University of Arizona, Udall Center for Studies in Public Policy  
2016-present, Faculty Associate

University of Arizona, Laboratory of Tree-Ring Research  
2010 to present, Affiliated Faculty

University of Arizona, Arizona Institute for Resilience (*formerly Institute of the Environment*)  
2007 to present, Director of Science Translation and Outreach

University of Arizona, Department of Geography and Regional Development  
2005 to present, Affiliated Faculty

University of Arizona, Climate Assessment for the Southwest (CLIMAS)  
2017-present, Affiliate  
2007 to 2016, Investigator  
2003 to 2007, Program Manager and Investigator  
2000 to 2003, Assistant Staff Scientist

### C. PRODUCTS / PUBLICATIONS (15)

1. Ro, B., & Garfin, G. 2023. Building urban flood resilience through institutional adaptive capacity: A case study of Seoul, South Korea. *International Journal of Disaster Risk Reduction*, 103474.
2. Freimund, C. A., Garfin, G. M., Norman, L. M., Fisher, L. A., & Buizer, J. L. 2022. Flood resilience in paired US–Mexico border cities: a study of binational risk perceptions. *Natural Hazards*, 1-25.
3. Garfin, G., Falk, D.A., O'Connor, C.D., Jacobs, K., Sagarin, R.D., Haverland, A.C., Haworth, A., Baglee, A., et al., 2021. A new mission: Mainstreaming climate adaptation in the US Department of Defense. *Climate Services*, 22, p.100230.

4. O'Connor, C. D., Falk, D. A., and **Garfin, G. M.** 2020. Projected climate-fire interactions drive forest to shrubland transition on an Arizona Sky Island. *Frontiers in Environmental Science*. 8: Article 137., 8, 137
5. Adeel, Z., Alarcón, A.M., Bakkensen, L., Franco, E., **Garfin, G.M.**, McPherson, R.A., Méndez, K., Roudaut, M.B., Saffari, H. and Wen, X., 2020. Developing a comprehensive methodology for evaluating economic impacts of floods in Canada, Mexico and the United States. *International Journal of Disaster Risk Reduction*, 50, p.101861.
6. Enquist, C.A.F., S.T. Jackson, **G.M. Garfin**, F.W. Davis, L.R. Gerber, J.A. Littell, J.L. Tank, A.J. Terando, T.U. Wall, et al. 2017. Foundations of translational ecology. *Frontiers in Ecology and the Environment* 15(10): 541-550.
7. Wall, T.U., E.C. McNie, and **G.M. Garfin**. 2017. Use-Inspired science: making science usable by and useful to decision makers. *Frontiers in Ecology and the Environment* 15(10): 551-559.
8. Parris, A., **G. Garfin**, K. Dow, R. Meyer, and S.L. Close (eds.). 2016. *Climate in Context: Science and Society Partnering for Adaptation*. J. Wiley and Sons, Ltd./AGU, 304 p.
9. **Garfin, G.M.**, C.A. Scott, M. Wilder, R.G. Varady, and R. Merideth. 2016. Metrics for assessing adaptive capacity and water security: common challenges, diverging contexts, emerging consensus. *Current Opinion in Environmental Sustainability* 21: 86-89.
10. Star, J., E. Rowland, M.E. Black, C.A.F. Enquist, **G. Garfin**, C. Hawkins Hoffman, H. Hartmann, K.L. Jacobs, R.H. Moss and A.M. Waple. 2016. Supporting adaptation decisions through scenario planning: Enabling the effective use of multiple methods. *Climate Risk Management*.
11. Cross, M., P. McCarthy, **G. Garfin**, D. Gori, and C. Enquist. 2013. Accelerating climate change adaptation for natural resources in southwestern United States. *Conservation Biology* 27:4-18.
12. **Garfin, G.**, H. Hartmann, M. Crescioni-Benitez, T. Ely, J. Keck, J.W. Kendrick, K. Legg, and J. Wise. 2011. Climate-Friendly Park Employees: The Intermountain Region's climate change training assessment. *Park Science* 28(1): 30-36.
13. M. Wilder, C.A. Scott, N. Pineda Pablos, R.G. Varady, **G.M. Garfin**, and J. McEvoy. 2010. Adapting Across Boundaries: Climate Change, Social Learning, and Resilience in the U.S.-Mexico Border Region. *Annals of the Association of American Geographers* 100(4):917-928.
14. Ray, A.J., **G.M. Garfin**, M. Wilder, M. Vasquez-Leon, M. Lenart, and A.C. Comrie. 2006. Applications of Monsoon Research: Opportunities to Inform Decisionmaking and Reduce Regional Vulnerability. *Journal of Climate* 20(9):1608-1627.
15. K. Jacobs, **G.M. Garfin**, and B.J. Morehouse. 2005. Climate Science and Drought Planning: the Arizona Experience. *Journal of the American Water Resources Association* 41(2): 437-445.

### Other Publications (15)

1. Murveit, A.M., Delphin-Perez, S., Domingues, C., Bourque, S.D., Faulstich, S.D., **Garfin, G.M.**, Huntly, N., Meadow, A.M., Preston, V. 2023. Stories as Data:

- Indigenous Research Sovereignty and the “Intentional Fire” Podcast. *Environment and Planning F: Philosophy, Theory, Models, Methods and Practice*.
2. Wen, X., A. M. A. Ferreira, L. M. Rae, H. Saffari, Z. Adeel, L. A. Bakkensen, K. Mendez Estrada, **G.M. Garfin**, R.A. McPherson, E. Franco Vargas, 2022. A Comprehensive Methodology for Evaluating the Economic Impacts of Floods: An Application to Canada, Mexico, and the United States. *Sustainability* 14(21): 14139.
  3. Monteblanco, A.D., Vanos, J.K., LeRoy, S., Juarez, P.M. and **Garfin, G.M.**, 2021. An evaluation of a maternal health and extreme heat exposure training. *Journal of Social, Behavioral, and Health Sciences*, 15(1), pp.31-42.
  4. Guo, H., Wang, R., **Garfin, G.M.**, Zhang, A. and Lin, D., 2020. Rice drought risk assessment under climate change: Based on physical vulnerability a quantitative assessment method. *Science of The Total Environment*, 751, p.141481.
  5. Gonzalez, P., **G.M. Garfin**, D.D. Breshears, K.M. Brooks, H.E. Brown, E.H. Elias, A. Gunasekara, N. Huntly, J.K. Maldonado, N.J. Mantua, H.G. Margolis, S. McAfee, B.R. Middleton, and B.H. Udall. 2018. Chapter 25: Southwest. In *Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II* [Reidmiller, D.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, K.L.M. Lewis, T.K. Maycock, and B.C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 1101-1184.
  6. Carrillo, C.M., C. L. Castro, **G. Garfin**, H-I Chang, M.S. Bukovsky, and L.O. Mearns. 2018. Pacific sea surface temperature related influences on North American monsoon precipitation within North American Regional Climate Change Assessment Program models. *International Journal of Climatology*.
  7. **Garfin, G.**, S. LeRoy, M. Muth, H. Jones, M. Ibarra Ochoa, et al. 2017. Climate Services for Coping with Climate Change, Drought, and Extreme Heat in the México-U.S. Border Region. In Montero Martinez, M.J., and O. F. Ibanez Hernandez (eds.), *La Cuenca del Río Conchos: Una Mirada desde las Ciencias ante el Cambio Climático*. Jiutepec, Morelos, Mexico: Instituto Mexican de Tecnologia del Agua, pp. 23-57.
  8. **Garfin, G.**, S. LeRoy, and H. Jones. 2017. *Developing an Integrated Heat Health Information System for Long-Term Resilience to Climate and Weather Extremes in the El Paso-Juárez-Las Cruces Region*. Tucson: Institute of the Environment, 63 p.
  9. **Garfin, G.**, G. Franco, H. Blanco, A. Comrie, P. Gonzalez, T. Piechota, R. Smyth, and R. Waskom. 2014. Chapter 20: Southwest. *Climate Change Impacts in the United States: The Third National Climate Assessment*. J. M. Melillo, Terese (T.C.) Richmond, and G. W. Yohe, Eds., U.S. Global Change Research Program, 462-486.
  10. **Garfin, G.**, A. Jardine, R. Merideth, M. Black, and S. LeRoy (eds.), 2013. *Assessment of Climate Change in the Southwest United States: A Report Prepared for the National Climate Assessment*. Washington, DC: Island Press, 509 p.
  11. Varady, R.G., C.A. Scott, M. Wilder, B. Morehouse, N. Pineda Pablos, **G.M. Garfin**, 2013. Transboundary adaptive management to reduce climate-change vulnerability in the western US–Mexico border region. *Environmental Science & Policy* 26:102-112.
  12. **Garfin, G.**, P. Romero Lankao, and R. Varady. 2013. Editorial: Rethinking integrated assessments and management projects in the Americas. *Environmental Science & Policy* 26: 1-5.

13. O'Connor, C.D., **G.M. Garfin**, D.A. Falk, T.W. Swetnam, 2011. Human Pyrogeography: A New Synergy of Fire, Climate and People is Reshaping Ecosystems across the Globe. *Geography Compass* 5(6): 329–350.
14. Garrick, D., K. Jacobs, and **G. Garfin**. 2008. Models, Assumptions, and Stakeholders: Planning For Water Supply Variability in the Colorado River Basin. *Journal of the American Water Resources Association* 44(2): 381-398.
15. Jacobs, K., **G. Garfin** and M. Lenart. 2005. More Than Just Talk: Connecting Science and Decisionmaking. *Environment* 47(9): 6-21.

#### **D. SELECTED SYNERGISTIC ACTIVITIES (Since 2011)**

- Fifth National Climate Assessment, (**Reviewer**, 2023)
- National Academies of Science, Engineering, and Medicine, Board on Environmental Change and Society, Aligning Co-Production of Environmental Knowledge with Trust, Justice, and Equity (**Invited Panelist**, 2021)
- Intergovernmental Panel on Climate Change, Sixth Assessment Report (**Reviewer**, 2020)
- U.S. Fish & Wildlife Service, Gila Topminnow Species Status Assessment (**Consultant**, 2019-2020)
- University of Arizona, Arid Lands Resource Sciences GIDP Executive Committee (**Member**, 2019-present)
- USDA Southwest Climate Hub, Advisory Board (Member, 2019-present)
- Fourth California Climate Assessment (**Reviewer**, 2018)
- USGS Southwest Climate Adaptation Science Center (**University Director**, 2017-2022)
- National Research Council/National Academies of Science Committee on Characterizing Risk in Climate Change Assessments, (**Invited participant and presenter**, 2016).
- University of Arizona, Water, Society, and Policy M.S. Program (**Director**, 2015-present)
- Frontiers in Ecology and the Environment, **Special Issue Guest Editor** (2016-2017)
- Current Opinion in Environmental Sustainability, **Special Issue Guest Editor** (2015-2016)
- University of Arizona, Center for Climate Adaptation Science and Solutions, Core Team (**Member**, 2014-present)
- North American Climate Services Partnership, Rio Grande-Rio Bravo Regional Pilot Area (**Co-Lead**, 2014-2020)
- University of Arizona, Arts, Environment and Humanities Network, (**Director**, 2014-2017)
- MaRIUS Drought Project, International Advisory Board, University of Oxford (**Member**, 2014-2016)
- City of Tucson Climate Change Committee (Member, 2009-2015; **Co-chair**, 2016-2017)
- U.S. CLIVAR Panel on Prediction, Predictability and Application Interface (**Member**, 2010-2014; **Co-chair**, 2014-2015)
- North American CORDEX, Executive Committee (**Member**, 2013-2015)
- Environmental Science and Policy, **Special Issue Guest Editor** (2011-2013)
- Southern Climate Impacts Planning Program, Advisory Board, (**Member**, 2011-2016)
- National Research Council/National Academies of Science Committee on A National Strategy for Advancing Climate Modeling. (**Invited participant and presenter**, 2011).
- Forests, Woodlands, and Climate E-Extension Community of Practice (**Member**, 2009-2014)