

DONALD A. FALK
Professor
School of Natural Resources and the Environment
University of Arizona, Tucson, AZ 85721
520.626.7201
dafalk@arizona.edu
<https://orcid.org/0000-0003-3873-722X>

JOINT APPOINTMENTS:

2007 – Laboratory of Tree-Ring Research (Professor, Dendrochronology)
2007 – Arizona Institute for Resilience (Affiliated Faculty)
2015 – Global Change Graduate Interdisciplinary Program (Professor, Global Change)

EDUCATION

Ph.D. University of Arizona, Ecology & Evolutionary Biology, 2004
M.A. Tufts University, Environmental Policy, 1981
B.A. Oberlin College, Interdisciplinary Studies, 1972

RESEARCH INTERESTS

Fire ecology, fire history, dendroecology, fire climatology, restoration ecology, ecological resilience, global change ecology, ecological scale.

PREVIOUS POSITIONS

1998 – 2007 **Laboratory of Tree-Ring Research, University of Arizona**
2004 – 2007 Adjunct Associate Professor
1998 – 2004 Graduate Associate in Research

1993 – 2002 **Society for Ecological Restoration**

2000 – 2002 Science & Policy Consultant.

1993 – 2000 Executive Director. First director of the leading international organization dedicated to the science and practice of ecological restoration.

1993 – 1994 **The Nature Conservancy of Arizona.** Field biologist and consultant for assessment of conservation status of rare plants in southern Arizona.

1984 – 1993 **Center for Plant Conservation, Co-Founder and Executive Director.** Co-founder of first national organization dedicated to conservation of endangered plants, at Arnold Arboretum (Harvard University (1984 – 1991), Missouri Botanical Garden (1991 – 2015), and San Diego Zoo Global (2015 – present).

1980 – 1984 **Cambridge Community Development Department, Energy Director.** Developed and managed \$1.5 million residential energy conservation program.

AWARDS AND HONORS

1991 – current Fellow, American Association for the Advancement of Science (AAAS)

2021, 2013 Outstanding Course (Introduction to Wildland Fire), School of Natural Resources and the Environment, University of Arizona

2020 Outstanding Faculty Member, School of Natural Resources and the Environment, University of Arizona

2019 – 2020 Academic Leadership Institute, University of Arizona

- 2015 Research Delegate representing the University of Arizona, Conference of Parties (COP21), UN Framework Convention on Climate Change (UNFCCC); Paris, France.
- 2014 – 2015 Faculty Fellow, Udall Center for Studies in Public Policy
- 2012 Outstanding Scholarly Achievement, School of Natural Resources and the Environment, University of Arizona
- 2008 Outstanding Paper in Landscape Ecology, International Association for Landscape Ecology (US): Falk, Miller, McKenzie, and Black, 2007, *Ecosystems*
- 2004 Center for Plant Conservation, STAR Award
- 2004 International Association of Landscape Ecology (US), Student Presentation Award, Honorable Mention
- 2003 Edward S. Deevey Award, Ecological Society of America, Outstanding Presentation in Paleoecology
- 2001 – 2002 Marshall Foundation Graduate Fellowship
- 2001 – 2003 National Science Foundation, Doctoral Dissertation Improvement Grant
- 2001 – 2002 Robert W. Hoshaw Scholar, Ecology & Evolutionary Biology, U. Arizona
- 1999 – 2000 William McGinnies Scholar, Arid Lands Studies, University of Arizona
- 1998 – 2001 Achievement Rewards for College Scientists (ARCS) Scholar
- 1996 Pinchot Institute for Conservation, U.S. Forest Service, Conservation Scholarship
- 1995 – 1996 Lockwood Fellow, College of Forest Resources, University of Washington
- 1991 Fulbright Short-Term Scholars Award, Australian Fulbright Foundation
- 1990 – 1991 Arboretum Associate, Arnold Arboretum, Harvard University
- 1990 Plant Conservation Award, New England Wild Flower Society
- 1981 Governor's Award for Energy Conservation, Commonwealth of Massachusetts

TEACHING, LECTURES, AND INTERNSHIPS

University of Arizona

- 2020 The Climate Crisis and How to Solve It. Honors College Colloquium (HNRS 195I)
- 2013 – 2017 Introduction to Natural Systems (DVP 620, Master's Program in Development Practice), teaching cadre
- 2010 – current Fire Ecology (Renewable Natural Resources 496a/696a)
- 2009 – current Restoration Ecology (Renewable Natural Resources 496e/596e)
- 2008 – current Introduction to Wildland Fire (Renewable Natural Resources 355)
- 2005 – current Dendroecology (Geosciences/Ecology 497k/597k)
- 2003 – current Lectures and seminars in climate adaptation, conservation biology, dendroecology, restoration ecology, and sustainability in the UA College of Law, Department of Ecology & Evolutionary Biology, Laboratory of Tree-Ring Research, and School of Natural Resources and the Environment
- 2002 Environmental History of the Southwest (GEOS 220, P. Sheppard), Teaching Assistant
- 2006 – current Instructor, Advanced Fire Effects (RX-510) and Fire in Ecosystem Management (M-580), National Advanced Fire and Resource Institute (NAFRI)
- 2000 – 2001 Columbia University, Earth Semester Mentor, BioSphere II, Oracle, AZ.
- 1988 – 1989 Conservation Botany (BOT 332), Arnold Arboretum of Harvard University
- 1981 – 1989 Tufts University, Adjunct Assistant Professor, Dept. of Urban and Environmental Policy: Biological Diversity and Conservation Strategies, Environmental Policy, Environmental Political Economy
- 1979 – 1980 The Nature Conservancy/Massachusetts Department of Environmental Management, Research Associate, Massachusetts Natural Heritage Program.
- 1979 Science Instructor, Charles River Academy, Cambridge, MA
- 1978 EarthWatch, Inc. and Massachusetts Department of Environmental Management.
- 1978 Research Assistant, Hummingbird Cay Field Station, Great Exuma, Bahamas

1978 Graduate Teaching Assistant, Environmental Planning and Design, Tufts University
 1977 – 1978 Lincoln Filene Center, New England Environmental Network, Tufts University.

SELECTED PUBLICATIONS

Publication metrics (GS):

Citations	9,983
<i>h</i> -index	42
<i>i</i> 10 index	88
Research Gate peer percentile	95%

Books

- Palmer MA, **DA Falk**, and JB Zedler (Eds.). 2016. *Foundations of Restoration Ecology*. Second Edition. Island Press, Washington, DC.
- McKenzie D, C Miller, and **DA Falk** (Eds.). 2011. *The Landscape Ecology of Fire*. Ecological Studies Series No. 213, Springer, Dordrecht, Netherlands. 24.697 chapter downloads since publication.
- Falk DA**, MA Palmer, and JB Zedler (Eds.). 2006. *Foundations of Restoration Ecology*. Island Press, Washington, DC.
- Falk DA**, CI Millar, and M Olwell (Eds.). 1996. *Restoring Diversity: Strategies for Reintroduction of Endangered Plants*. Island Press, Washington, DC.
- Falk DA** and KE Holsinger (Eds.). 1991. *Genetics and Conservation of Rare Plants*. Oxford University Press, New York.

Thesis and Dissertation

- Falk DA**. 2004. *Scaling rules for fire regimes*. Ph.D. dissertation, Department of Ecology & Evolutionary Biology, and Laboratory of Tree-Ring Research, University of Arizona. Tucson. 305 pp.
<https://repository.arizona.edu/handle/10150/290135>
- Falk DA**. 1981. *Political economy of the environment*. Department of Urban and Environmental Policy, Tufts University. https://tufts-primis.hosted.exlibrisgroup.com/permalink/f/18fc9o8/01TUN_ALMA2190679550003851

Peer reviewed publications

In review/revision

- Cortés Montaña C, J Kellerman, PZ Fulé, **DA Falk**, and EC Enkerlin Hoeflich. Thick-billed Parrot (*Rhynchopsitta pachyrhyncha*: Psittacidae) old-growth forest habitat associated with frequent fires in northwestern México. *Fire Ecology*. In revision.
- Ektvedt TM, **DA Falk**, MN Evans, R Penniston, S White, and P Sheppard. Dendrochronology and isotope chronology of *Juglans neotropica* and its response to El Niño events in tropical highlands of Piura, northern Peru. *Dendrochronologia*. In revision.
- Falk DA**, PJ van Mantgem, JE Keeley, RM Gregg, CH Guiterman, AJ Tepley, DJN Young, and LA Marshall. Mechanisms of forest resilience. Tamm Review, *Forest Ecology & Management*. In review.
- Kellerman JL, **DA Falk**, and C van Riper II. Birds select diverse fire mosaics during migration. *Ecological Applications*. In revision.
- Li Z, Zhou G, **Falk DA**, and Ji Y. Upcoming global pandemic of forest canker disease and its main symptoms. *National Science Review* (China). Submitted.
- Margolis EQ, CH Guiterman, RD Chavardès, JD Coop, K Copes-Gerbitz, DA Dawe, **DA Falk**, et al. The North American tree-ring fire-scar network. *Ecosphere*. In revision.
- Swetnam TL, **DA Falk**, BJ Enquist, AM Lynch, DP Guertin, and SR Yool. Assessing the generality of Metabolic Scaling Theory in differing forest disturbance regimes. *American Naturalist*. In revision.

Taylor EJ, DA Falk, RH Towner. Traversing the Southern Canadian Rocky Mountains: A Least Cost Path Analysis. *Human Ecology*, submitted.

Published

- Chazdon, R, **DA Falk**, L Banin, M Wagner, S Wilson, RC Grabowski, and KN Suding. 2021. The intervention continuum in restoration ecology: rethinking the active-passive dichotomy. *Restoration Ecology* <https://doi.org/10.1111/rec.13535>
- Garfin GM, **DA Falk**, CD O'Connor, K Jacobs, RD Sagarin, AC Haverland, A Haworth, A Baglee, J Weiss, JT Overpeck, and AA Zuñiga-Terán. 2021. A new mission: Mainstreaming climate adaptation in the US Department of Defense. *Climate Services* 22: 100230. <https://doi.org/10.1016/j.cliser.2021.100230>
- Swetnam TL, SR Yool, S Roy, and **DA Falk**. 2021. On the use of standardized multi-temporal indices for monitoring disturbance and ecosystem moisture stress across multiple Earth Observation Systems in the Google Earth Engine. *Remote Sensing* 13: 1448. <https://doi.org/10.3390/rs13081448>
- Hagmann K, P Hessburg, S Prichard, N Povak, PM Brown, PZ Fulé, R Keane, E Knapp, JM Lydersen, K Metlen, M Reilly, A Sánchez Meador, S Stephens, J Stevens, AH Taylor, LY Yocom, M Battaglia, D Churchill, L Daniels, **DA Falk**, M Krawchuk, J Johnston, C Levine, G Meigs, A Merschel, M North, H Safford, TW Swetnam, and A Waltz. 2021. Evidence for Widespread Changes in the Structure, Composition, and Fire Regimes of Western North American Forests. *Ecological Applications* 31(8): e02431. <http://dx.doi.org/10.1002/eap.2431>
- Evans MEK, BA Black, EL Schultz, and **DA Falk**. 2021. Growth Rings across the Tree of Life: Demographic insights from biogenic time series data. Pp. 77-96 in R Salguero-Gomez and M Gamelon (Eds.), *Demographic Methods Across the Tree of Life*. Oxford University Press.
- Dewar JJ, **DA Falk**, TW Swetnam, CH Baisan, CD Allen, RR Parmenter, EQ Margolis, and EJ Taylor. 2021. Landscape reconstruction of historical fire regimes of forest-grassland ecotones and grasslands in the Valles Caldera National Preserve, New Mexico, USA. *Landscape Ecology* 36: 331–352. <https://link.springer.com/article/10.1007/s10980-020-01101-w>
- Van Mantgem E, PJ van Mantgem, **DA Falk**, and JE Keeley. 2020. Linking diverse terminology to vegetation type-conversion, a complex emergent property. California Fire Science Consortium, *Research Synthesis for Resource Managers*, December. <http://www.cafiresci.org/>
- O'Connor CD, **DA Falk**, and GM Garfin. 2020. Projected climate-fire interactions drive forest to shrubland transition on an Arizona Sky Island. *Frontiers in Earth Science* 8: Article 137. <https://doi.org/10.3389/fevs.2020.00137>
Republished in: D Bachelet, G Lasslop, and JT Abatzoglou, Eds. 2021. *Climate, Land Use, and Fire: Can Models Inform Management?* Lausanne: Frontiers Media SA. <http://doi:10.3389/978-2-88966-383-5>
- Coop JD, SA Parks, CS Stevens-Rumann, S Crausbay, PE Higuera, MD Hurteau, A Tepley, E Whitman, T Assal, BM Collins, KT Davis, S Dobrowski, **DA Falk**, PJ Fornwalt, PZ Fulé, BJ Harvey, VR Kane, CE Littlefield, EQ Margolis, M North, M-A Parisien, S Prichard, KC Rodman. 2020. Wildfire-driven forest conversion in western North American landscapes. *BioScience* 70 (8): 659–673. <https://doi.org/10.1093/biosci/biaa061>
- Arizpe AH, **DA Falk**, C Woodhouse, and TW Swetnam. 2020. Widespread fire years in the US-Mexico sky islands are contingent on both winter and monsoon precipitation. *International Journal of Wildland Fire*. <https://doi.org/10.1071/WF19181>
- Marshall LA and **DA Falk**. 2020. Demographic trends in community functional tolerance reflect tree responses to climate and altered fire regimes. *Ecological Applications* e02197. <https://doi.org/10.1002/eap.2197>
- Lepley K, R Touchan, D Meko, E Shamir, R Graham, and **DA Falk**. 2020. A multi-century Sierra Nevada snowpack reconstruction modeled using upper-elevation coniferous tree rings (California, USA). *The Holocene* 30(9): 1266-1278. <https://doi.org/10.1177/0959683620919972>

- van Mantgem PJ, **DA Falk**, EC Williams, AJ Das, and NL Stephenson. 2020. Intermediate- and long-term growth predict post-fire tree mortality for common conifers in western U.S. parks. *International Journal of Wildland Fire* 29(6) 513-518. <https://doi.org/10.1071/WF19020>
- Newman EA, M Wilber, K Kopper, M Moritz, **DA Falk**, D McKenzie, and J Harte. 2020. Disturbance macroecology: a comparative study of community structure metrics in a high severity disturbance regime. *EcoSphere* 11(1):e03022. <https://10.1002/ecs2.3022>
- Webb AD, **DA Falk**, and DM Finch. 2019. *Fire Ecology and Management in Lowland Riparian Ecosystems of the Southwestern United States and Northern Mexico*. US Forest Service, General Technical Report RMRS-GTR-401. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 132 p. <https://www.fs.usda.gov/treearch/pubs/59156>
- Guterman CH, EQ Margolis, CH Baisan, **DA Falk**, CD Allen, and TW Swetnam. 2019. Spatio-temporal variability of human-fire interactions on the Navajo Nation. *EcoSphere* 10(11): e02932. <https://doi.org/10.1002/ecs2.2932>
- Friggens M, RA Loehman, AE Thode, W Flatley, A Evans, W Bunn, C Wilcox, S Mueller, L Yocom, and **DA Falk**. 2019. *User guide to the FireCLIME Vulnerability Assessment (VA) tool: A rapid and flexible system for assessing ecosystem vulnerability to climate-fire interactions*. Gen. Tech. Rep. RMRS-GTR-395. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 42 p. <https://www.fs.usda.gov/treearch/pubs/59033>
- Newman EA, MC Kennedy, **DA Falk**, and D McKenzie. 2019. Scaling and complexity in landscape ecology. *Frontiers in Ecology and Evolution* 7: a293. <https://doi.org/10.3389/fevo.2019.00293>
- Keeley JE, P van Mantgem, and **DA Falk**. 2019. Fire, climate and changing forests. *Nature Plants* 5 (8): 774-775. <https://doi.org/10.1038/s41477-019-0485-x>
- Falk DA**, AC Watts, and AE Thode. 2019. Scaling ecological resilience. *Frontiers in Ecology and Evolution* 7: 275. <https://doi/10.3389/fevo.2019.00275>
- Smith M, Stark, T Taylor, M Ferreira, E de Oliveira, N Restrepo-Coupe, S Chen, T Woodcock, D dos Santos, L Alves, M Figueira, P de Camargo, R Oliviera, LE Cruz de Aragão, **DA Falk**, S McMahon, T Huxman, and S Saleska. 2019. Seasonal and drought-related changes in leaf area profiles depend on height and light environment in an Amazon forest. *New Phytologist* <https://nph.onlinelibrary.wiley.com/doi/epdf/10.1111/nph.15726> .
- Marshall LA, **DA Falk**, and NG McDowell. 2019. Nitrogen can limit overstory tree growth following extreme stand density increase in a ponderosa pine forest. *Tree-Ring Research* 75(1):49-60. <https://doi.org/10.3959/1536-1098-75.1.49>
- Heyerdahl EK, RA Loehman, and **DA Falk**. 2019. A multi-century history of fire regimes along a transect of mixed-conifer forests in central Oregon, USA. *Canadian Journal of Forest Research* 49: 76–86. <https://dx.doi.org/10.1139/cjfr-2018-0193>
- Van Mantgem P, **DA Falk**, EC Williams, A Das, and N Stephenson. 2018. Pre-fire drought and competition mediate post-fire conifer mortality in western U.S. National Parks. *Ecological Applications* 28(7): 1730–1739. <https://doi.org/10.1002/eap.1778>
- Hanna D, **DA Falk**, TW Swetnam, and W Romme. 2018. Age-related climate sensitivity in *Pinus edulis* at Dinosaur National Monument, Colorado, USA. *Dendrochronologia* 52:40-47. <https://doi.org/10.1016/j.dendro.2018.09.002>
- Keane RE, RA Loehman, LM Holsinger, P Higuera, SM Hood, and **DA Falk**. 2018. Evaluating resilience into the future from the past: using historical variation to develop an operational application. *EcoSphere* 9(9):e02414. <https://doi:10.1002/ecs2.2414>
- Gann GD, T McDonald, J Aronson, KW Dixon, B Walder, JG Hallett, K Decler, **DA Falk**, EK Gonzales, C Murcia, CR Nelson, and AJ Unwin. 2018. The SER Standards: a globally relevant and inclusive tool for improving the practice. *Restoration Ecology* 26(3): 426-430. <https://doi:10.1111/rec.12819>

- Newman EA, MQ Wilber, KE Kopper, MA Moritz, **DA Falk**, D McKenzie, and J Harte. 2018. Disturbance macroecology: integrating disturbance ecology and macroecology in different-age post-fire stands of a closed-cone pine forest. *bioRxiv* 309419; doi: <https://doi.org/10.1101/309419>
- Harley G, CH Baisan, PM Brown, H Grissino-Mayer, **DA Falk**, W Flatley, A Hessler, EK Heyerdahl, M Kaye, C Lafon, EQ Margolis, R Maxwell, A Naito, W Platt, M Rother, T Saladyga, R Sherriff, L Stachowiak, M Stambaugh, EK Sutherland, and AH Taylor. 2018. Advancing dendrochronological studies of fire in the United States. *Fire* 1: 11. <http://doi:10.3390/fire1010011>
- Conver JL, **DA Falk**, SR Yool, and RR Parmenter. 2018. Modeling fire pathways in montane grassland-forest ecotones. *Fire Ecology* 14(1): 17-31. <http://doi:10.4996/fireecology.140117031>
- Guiterman CH, EQ Margolis, CD Allen, **DA Falk**, and TW Swetnam. 2018. Long-term persistence and frequent fire suggest future increased landscape dominance of shrubfields in northern New Mexico. *Ecosystems* 21(5): 943-959. <http://DOI:10.1007/s10021-017-0192-2>
- Ketcham SL, JL Koprowski, and **DA Falk**. 2017. Differential Response of Native Arizona Gray Squirrels and Introduced Abert's Squirrels to a Mosaic of Burn Severities in the Santa Catalina Mountains. *Mammal Study* 42: 247–258. <https://doi.org/10.3106/041.042.0407>
- Kitzberger T, **DA Falk**, AL Westerling, and TW Swetnam. 2017. Direct and indirect climate controls predict heterogeneous early-mid 21st century wildfire burned area across western and boreal North America. *PLoS One* 12(12): e0188486. <https://doi.org/10.1371/journal.pone.0188486> . *PLoS One* top-10% most cited 2017 papers.
- Evans MK, **DA Falk**, AH Arizpe, TL Swetnam, F Babst, and KE Holsinger. 2017. Fusing tree-ring and forest inventory data to infer influences on tree growth. *EcoSphere* 8(7):e01889. <http://doi:10.1002/ecs2.1889>
- Falk DA**. 2017. Restoration ecology, resilience, and the axes of change. *Annals of the Missouri Botanical Garden* 102:201–216. <http://doi:10.3417/2017006>
- Minor J, **DA Falk**, and GA Barron-Gafford. 2017. Fire severity and regeneration strategy influence shrub patch size and structure following disturbance. *Forests* 8: 221. <http://doi:10.3390/f8070221>
- O'Connor CD, **DA Falk**, AM Lynch, TW Swetnam, and C Wilcox. 2017. Disturbance and productivity interactions mediate stability of forest composition and structure. *Ecological Applications* 27(3): 900–915. <http://doi:10.1002/eap.1492>
- Yocom Kent LL, PZ Fulé, PM Brown, J Cerano-Paredes, E Cornejo-Oviedo, C Cortes Montaña, SA Drury, **DA Falk**, J Meunier, HM Poulos, CN Skinner, SL Stephens, and J Villanueva-Díaz. 2017. Climate drives fire synchrony but local factors control fire regime change in northern Mexico. *Ecosphere* 8(3):e01709. <http://doi:10.1002/ecs2.1709>
- Triepke FJ, EH Muldavin, MM Wahlberg, TK Lowrey, **DA Falk**, MM Friggens, and KE Bagne. 2016. *Assessing the Climate Change Vulnerability of Ecosystem Types of the Southwestern U.S.* http://digitalrepository.unm.edu/biol_etds/200
- Falk DA** and CI Millar. 2016. The Influence of Climate Variability and Change on the Science and Practice of Restoration Ecology. In Palmer MA, DA Falk, and JB Zedler (Eds.). *Foundations of Restoration Ecology*. Second Edition. Island Press, Washington, DC.
- Richards CM, **DA Falk**, and AM Montalvo. 2016. Population and Ecological Genetics in Restoration Ecology. In Palmer MA, DA Falk, and JB Zedler (Eds.). *Foundations of Restoration Ecology*. Second Edition. Island Press, Washington, DC.
- Palmer MA, JB Zedler, and **DA Falk**. 2016. Ecological Theory and Restoration Ecology. In Palmer MA, DA Falk, and JB Zedler (Eds.). *Foundations of Restoration Ecology*. Second Edition. Island Press, Washington, DC.
- Falk DA**, W van Leeuwen, and A McEwen. 2016. Low-cost high-resolution global pyrogenic thermal sensing: Critical information for biosphere-atmosphere interactions. *Decadal Survey for Earth Science and Applications from Space (ESAS 2017)*, National Academy of Science.
- Stevens JT, HD Safford, MP North, PM Brown, CR Dolanc, SZ Dobrowski, **DA Falk**, CA Farris, JF Franklin, JS Fried, PZ Fulé, AN Gray, RK Haggmann, EE Knapp, JD Miller, DF Smith, TW

- Swetnam, and AH Taylor. 2016 Average Stand Age From Forest Inventory Plots Does Not Describe Historical Fire Regimes in Ponderosa Pine and Mixed-Conifer Forests of Western North America. *PLoS ONE* 11(5): e0147688. <http://doi:10.1371/journal.pone.0147688> . *PLoS One* top-10% most cited 2016 papers.
- Swetnam TW, J Farella, CI Roos, MJ Liebmann, **DA Falk**, & CD Allen. 2016. Multi-Scale Perspectives of Fire, Climate and Humans in Western North America and the Jemez Mountains, U.S.A. *Philosophical Transactions of the Royal Society B* 371: 20150168. <http://dx.doi.org/10.1098/rstb.2015.0168>
- Falk DA**. 2016. The resilience dilemma: Incorporating global change into ecosystem policy and management. *Arizona Law Journal* 48(1): 145-156.
- Falk DA**. 2016. Review of *Fire on Earth: An Introduction*. AC Scott, DMJS Bowman, WJ Bond, SJ Pyne, and ME Alexander. 2014. Wiley Blackwell, Oxford, UK. *Quarterly Review of Biology* 91: 76-77.
- Smith KT, E Arbellay, **DA Falk**, and EK Sutherland. 2016. Macroanatomy and compartmentalization of recent fire scars in three North American conifers. *Canadian Journal of Forest Research*. 46: 535–542. <http://dx.doi.org/10.1139/cjfr-2015-0377> .
- Anhold J, B Mitchell, C Wilcox, T Mellin, M Merrick, AM Lynch, M Walterman, **DA Falk**, J Koprowski, D Laes, D Evans, and H Fisk. 2015. Using LiDAR to Evaluate Forest Landscape and Health Factors and Their Relationship to Habitat of the Endangered Mount Graham Red Squirrel on the Coronado National Forest, Pinaleño Mountains, Arizona. Ch. 12, p. 133-142 in KM Potter and B Conkling, Eds. *Forest Health Monitoring: National Status, Trends, and Analysis 2014*. Gen. Tech. Rep. SRS-209. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station.
- Swetnam TL and **DA Falk**. 2015. *Carbon Cycling in Southwestern Forests: Reservoirs, Fluxes, and the Effects of Fire and Management*. ERI Working Paper No. 35. Ecological Restoration Institute and Southwest Fire Science Consortium, Northern Arizona University, Flagstaff, AZ. 15 p. Synthesized as an ERI Fact Sheet: *Carbon Cycling in Southwestern Forests: Reservoirs, Fluxes, and the Effects of Fire and Management*. Ecological Restoration Institute and Southwest Fire Science Consortium, Northern Arizona University. <http://library.eri.nau.edu/gsd/collect/erilibra/index/assoc/D2015025.dir/doc.pdf>
- Keane RE, E Smithwick, D McKenzie, C Miller, **DA Falk**, and LB Kellogg. 2015. Representing Climate, Disturbance, and Vegetation Interactions in Landscape Simulation Models. *Ecological Modelling* 309–310: 33–47. <http://dx.doi.org/10.1016/j.ecolmodel.2015.04.009>
- Guerrant EO, K Havens, PL Fiedler, P Vitt, **DA Falk**, and K Dixon. Population Structure Integral to Seed Collection Guidelines: A Response to Hoban and Schlarbaum. 2015. *Biological Conservation* 184: 465–466. <http://dx.doi.org/10.1016/j.biocon.2015.02.020>
- Swetnam TL, AM Lynch, **DA Falk**, SR Yool, and DP Guertin. 2015. Discriminating natural variation from legacies of disturbance in semi-arid forests, Southwestern USA. *EcoSphere* 6(6):97. <http://dx.doi.org/10.1890/ES14-00384.1>
- Sidman G, DP Guertin, DC Goodrich, D Thoma, **DA Falk**, and IS Burns. 2015. A coupled modeling approach to assess the impact of fuel treatments on post-wildfire runoff and erosion. *International Journal of Wildland Fire*. <http://dx.doi.org/10.1071/WF14058>
- O'Connor CD, AM Lynch, **DA Falk**, and TW Swetnam. 2015. Post-fire forest dynamics and climate variability affect spatial and temporal properties of spruce beetle outbreaks on a Sky Island mountain range. *Forest Ecology and Management* 336: 148-162. <http://dx.doi.org/10.1016/j.foreco.2014.10.021>
- Yocom LL, P Z Fulé, C García-Domínguez, **DA Falk**, E Cornejo-Oviedo, PM. Brown, J Villanueva-Díaz, J Cerano, and C Cortés Montaña. 2014. Fine-scale factors influence fire regimes in mixed-conifer forests on three high mountains in Mexico. *International Journal of Wildland Fire* 23: 959–968. <http://doi.org/10.1071/WF13214>

- Arbellay E, M Stoffel, EK Sutherland, KT Smith, and **DA Falk**. 2014. Resin duct size and density as ecophysiological traits in fire scars of *Pseudotsuga menziesii* and *Larix occidentalis*. *Annals of Botany* 114(5): 973-980. <http://doi:10.1093/aob/mcu168>
- Higgs E, **DA Falk**, A Guerrini, M Hall, J Harris, RJ Hobbs, ST Jackson, JM Rhemtulla, and W Throop. 2014. The changing role of history in restoration ecology. *Frontiers in Ecology and the Environment* 12(9): 499–506. <http://doi:10.1890/110267>
- O'Connor CD, **DA Falk**, AM Lynch, and TW Swetnam. 2014. Fire severity, size, and climate associations diverge from historical precedent along an ecological gradient of the Pinaleno Mountains, Arizona, U.S.A. *Forest Ecology and Management* 329: 264–278. <http://dx.doi.org/10.1016/j.foreco.2014.06.032>
- Swetnam TL, **DA Falk**, AM Lynch, and SR Yool. 2014. Estimating individual tree mid- and understory rank-size distributions from airborne laser scanning in semi-arid forests. *Forest Ecology and Management* 330: 271-282. <http://dx.doi.org/10.1016/j.foreco.2014.07.011>
- Arbellay E, M Stoffel, EK Sutherland, KT Smith, and **DA Falk**. 2014. Changes in tracheid and ray traits in fire scars of North American conifers and their ecophysiological implications. *Annals of Botany* 114(2): 223-232. <http://doi:10.1093/aob/mcu112>
- Swetnam TL and **DA Falk**. 2014. Application of Metabolic Scaling Theory to reduce error in local maxima tree segmentation from aerial LiDAR. *Forest Ecology & Management* 323: 158–167. <http://dx.doi.org/10.1016/j.foreco.2014.03.016>
- Heyerdahl EK, RA Loehman, and **DA Falk**. 2014. Lodgepole pine-dominated forest in central Oregon's Pumice Plateau: Historical mixed-severity fires are resistant to future climate change. *Canadian Journal of Forest Research* 44: 593–603. <http://dx.doi.org/10.1139/cjfr-2013-0413>
- Fulé PZ, TW Swetnam, PM Brown, **DA Falk**, DL Peterson, CD Allen, GH Aplet, MA Battaglia, D Binkley, C Farris, RE Keane, EQ Margolis, H Grissino-Mayer, C Miller, CH Sieg, C Skinner, SL Stephens, and AH Taylor. 2013. Unsupported and inaccurate inferences of high severity fire in historical western United States dry forests: Response to Williams and Baker. *Global Ecology and Biogeography* 23 (7): 825-830. <http://doi:10.1111/geb.12136>
- Falk DA**. 2013. Are Madrean ecosystems approaching tipping points? Anticipating interactions of landscape disturbance and climate change. In Gottfried GJ, Ffolliott PF, Gebow BS, Eskew LG, and Collins LC, *Merging science and management in a rapidly changing world: Biodiversity and management of the Madrean Archipelago III*. RMRS P-67. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. Fort Collins, CO. <https://www.fs.usda.gov/treearch/pubs/44410>
- Friggens M, K Bagne, D Finch, **DA Falk**, J Triepke, AM Lynch. 2013. *Review and recommendations for climate change vulnerability assessment approaches with examples from the Southwest*. Gen. Tech. Rep. RMRS-GTR-309. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 106 p. <https://www.fs.usda.gov/treearch/pubs/all/44184>
- Malusa, J, L Laing, **DA Falk**, and B Gebow. 2013. Mapping Ecological Systems from the Ground Up in Southeastern Arizona. In Gottfried GJ, Ffolliott PF, Gebow BS, Eskew LG, and Collins LC, *Merging science and management in a rapidly changing world: Biodiversity and management of the Madrean Archipelago III*. RMRS P-67. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. Fort Collins, CO.
- Gebow B, C Stetson, **DA Falk**, and C Dolan. 2013. FireScape: A Program for Whole-Mountain Fire Management in the Sky Island Region. In Gottfried GJ, Ffolliott PF, Gebow BS, Eskew LG, and Collins LC, *Merging science and management in a rapidly changing world: Biodiversity and management of the Madrean Archipelago III*. RMRS P-67. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. Fort Collins, CO.
- Farris CA, CH Baisan, **DA Falk**, ML Van Horne, PZ Fulé, and TW Swetnam. 2013. A comparison of targeted and systematic fire-scar sampling for estimating historical fire frequency in south-western ponderosa pine forests. *International Journal of Wildland Fire* 22(8): 1021-1033. <http://dx.doi.org/10.1071/WF13026> .

- Cortés Montaña C, PZ Fulé, **DA Falk**, J Villanueva-Díaz, and LL Yocom. 2012. Linking old-growth forest composition and structure to fire history, climate and land-use in a mountain range of northwestern México. *Ecosphere* 3(11): 106. <http://doi:10.1890/ES12-00161.1>
- Fulé PZ, LL Yocom, C Cortés Montaña, **DA Falk**, J Cerano, and J Villanueva-Díaz. 2012. Testing a pyroclimatic hypothesis on the México-U.S. border. *Ecology* 93(8): 1830–1840. <https://doi.org/10.1890/11-1991.1>
- Maschinski J, **DA Falk**, SJ Wright, J Possley, J Roncall, and KS Wendelberger. 2011. Optimal locations for plant reintroductions in a changing world. In J Maschinski and KE Haskins (Eds.), *Plant Reintroduction in a Changing Climate*. Island Press, Washington, DC.
- Falk DA**, EK Heyerdahl, PM Brown, CA Farris, PZ Fulé, D McKenzie, TW Swetnam, AH Taylor, and ML Van Horne. 2011. Multiscale controls of historical fire regimes: New insights from fire-scar networks. *Frontiers in Ecology and the Environment* 9(8): 446-454. <https://doi.org/10.1890/100052>
- O'Connor C, TW Swetnam, G Garfin, and **DA Falk**. 2011. Human Pyrogeography: A New Synergy of Fire, Climate and People is Reshaping Ecosystems across the Globe. *Geography Compass* 5/6: 329-350. <http://dx.doi.org/10.1111/j.1749-8198.2011.00428.x>
- McKenzie D, C Miller, and **DA Falk**. 2011. Toward a theory of landscape fire. In McKenzie D, C Miller, and **DA Falk** (Eds.). *The landscape ecology of fire*. Ecological Studies Series No. 213, Springer, Dordrecht, Netherlands.
- McKenzie D, C Miller, and **DA Falk**. 2011. Synthesis: Landscape ecology and changing fire regimes. In McKenzie D, C Miller, and **DA Falk** (Eds.). *The landscape ecology of fire*. Ecological Studies Series No. 213, Springer, Dordrecht, Netherlands.
- Swetnam TL, **DA Falk**, A Hessl, and CA Farris. 2011. Reconstructing landscape pattern of historic fires and fire regimes. In McKenzie D, C Miller, and **DA Falk** (Eds.). *The landscape ecology of fire*. Ecological Studies Series No. 213, Springer, Dordrecht, Netherlands.
- Farris CA, **DA Falk**, CH Baisan, SR Yool, and TW Swetnam. 2010. Spatial and temporal corroboration of fire-scar based fire history reconstructions in a frequently burned ponderosa pine forest in southern Arizona. *Ecological Applications* 20: 1598–1614. <https://doi.org/10.1890/09-1535.1>
- Falk DA**, EK Heyerdahl, PM Brown, TW Swetnam, EK Sutherland, Z Gedalof, LL Yocom, and TJ Brown. 2010. Fire and climate variation in western North America from fire scar networks. *Past Global Climates* 18(2): 70-72. <https://www.fs.usda.gov/treearch/pubs/all/36308>
- Yocom LL, PZ Fulé, PM Brown, J Cerano, J Villanueva-Díaz, **DA Falk**, and E Cornejo-Oviedo. 2010. El Niño-Southern Oscillation effect on a fire regime in northeastern Mexico has shifted over time. *Ecology* 91(6): 1660-1671. <https://doi.org/10.1890/09-0845.1>
- Lenart M, **DA Falk**, FN Scatena, and WR Osterkamp. 2010. Estimating soil turnover rate from tree uprooting during hurricanes in Puerto Rico. *Forest Ecology & Management* 259: 1076–1084. <http://doi:10.1016/j.foreco.2009.12.014>
- Stevens J and **DA Falk**. 2009. Can buffelgrass Invasions Be Controlled in the American Southwest? Using invasion ecology theory to explain buffelgrass success and restoration potential in the American Southwest. *Ecological Restoration* 27(4): 417-427. <http://doi:10.3368/er.27.4.417>
- Falk DA**, C Miller, D McKenzie, and AE Black. 2007. Cross-scale analysis of fire regimes. *Ecosystems* 10: 809–823. Awarded “Outstanding Paper in Landscape Ecology”, International Association for Landscape Ecology-US (2008). <https://doi.org/10.1007/s10021-007-9070-7>
- Zedler JB, **DA Falk**, and DJ Larkin. 2007. Upstart views of restoration icons. *Bulletin of the Ecological Society of America* 88(1): 104-112.
- Falk DA** 2006. Process-centred restoration in a fire-adapted ponderosa pine forest. *Journal for Nature Conservation* 14: 140-151.
- Palmer MA, **DA Falk**, and JB Zedler. 2006. Ecological theory and restoration ecology. Pp. 1-10 In Falk DA, MA Palmer, & JB Zedler (Eds.), *Foundations of Restoration Ecology*. Island Press, Washington, DC.

- Falk DA**, CM Richards, AM Montalvo, and EE Knapp. 2006. Population and ecological genetics in restoration ecology. Pp. 14-41 *In* Falk DA, MA Palmer, & JB Zedler (Eds.), *Foundations of Restoration Ecology*. Island Press, Washington, DC.
- Falk DA**, MA Palmer and JB Zedler. 2006. Integrating restoration ecology and ecological theory: A synthesis. Pp. 341-346 *In* Falk DA, MA Palmer, & JB Zedler (Eds.), *Foundations of Restoration Ecology*. Island Press, Washington, DC.
- Sisk TD, M Savage, **DA Falk**, CD Allen, E Muldavin, and P McCarthy. 2005. A landscape perspective for forest restoration. *Journal of Forestry* 103 (6): 319-320.
- Maunder M, K Havens, EO Guerrant, and **DA Falk**. 2004. *Ex situ* methods: A vital but underused set of conservation resources. Pp. 3-20 in Guerrant EO, K Havens, and M. Maunder (Eds.), *Ex situ plant conservation: Supporting species survival in the wild*. Island Press, Washington, DC.
- Falk, DA** and T. W. Swetnam. 2003. Scaling rules and probability models for surface fire regimes in Ponderosa pine forests. *In Fire ecology, fuel treatments, and ecological restoration*, PN Omi and LA Joyce (Eds.). US Forest Service, Rocky Mountain Research Station. General Technical Report RMRS-P-29, pp. 301-317. Ft. Collins, CO.
- Allen CD, M Savage, **DA Falk**, KF Suckling, TW Swetnam, T Schulke, PB Stacey, P Morgan, M Hoffman, and JT Klingel. 2002. Ecological restoration of southwestern Ponderosa pine ecosystems: A broad framework. *Ecological Applications* 12(5): 1418-1433.
- Falk DA**, EE Knapp, and EO Guerrant. 2002. *An introduction to restoration genetics*. Society for Ecological Restoration, Science & Policy Paper No. 1
- Thomas SC, CB Halpern, **DA Falk**, DA Ligouri, and KA Austin. 1999. Plant diversity in managed forests: understory responses to silvicultural thinning and fertilization. *Ecological Applications* 9(3): 864-879.
- Allen EB, WW Covington, and **DA Falk**. 1997. Developing the conceptual basis for restoration ecology. *Restoration Ecology* 5(4): 275-276.
- Falk DA**. 1996. Choosing a future for ecological restoration: Restoration priorities on the landscape scale. Pp. 211-215 *in* D Peterson and C Klimas (eds.), *The role of restoration in ecological management*. Society for Ecological Restoration/Parks Canada.
- Falk DA** and P Olwell. 1992. Scientific and policy considerations in restoration and reintroduction of endangered species. *Rhodora* 94:287-315.
- Falk DA** 1992. From Conservation Biology to Conservation Practice: Strategies for Protecting Plant Diversity. *In* Fiedler PL and SK Jain (Eds.), *Conservation Biology*. Chapman & Hall, pp. 397-425.
- Falk, DA** 1991. Joining biological and economic models for conserving plant diversity. *In Falk DA* and KE Holsinger (Eds.), *Genetics and Conservation of Rare Plants*. Oxford University Press, New York, pp. 209-223.
- Falk DA** 1990. Conserving the native diversity of the U.S. *Conservation Digest* 2(5): 10.
- Falk DA** 1990. Discovering the Future, Creating the Past: Some Reflections on Restoration. *Restoration & Management Notes* 8(2): 71-72.
- Falk DA** 1990. A Restorative Strategy for Endangered Species. *In* J Berger (ed.), *Environmental Restoration: Science of Strategies for Restoring the Earth*, pp. 328-334. University of California, Berkeley. Island Press, Washington, DC.
- Falk DA** 1990. Endangered Forest Genetic Resources in the U.S.: Integrated Strategies for Conservation. *Forest Ecology and Management*. 35:91-117.
- Falk DA** 1990. Integrated Strategies for Conserving Plant Genetic Diversity. *Annals of the Missouri Botanical Garden* 77:38-47.
- Falk DA** 1990. The Theory of Integrated Conservation Strategies for Biological Diversity. *In* Leopold D (Ed.), *Ecosystem Management: Rare Species and Significant Habitats*. Proceedings of the 14th Annual Natural Areas Conference, Natural Areas Association. State University Press of New York. New York State Museum Bulletin No. 471.

- McMahan LR and **DA Falk**. 1989. The Center for Plant Conservation: Collaborating with the National Plant Germplasm System to Save Seeds for the Future. *Diversity* 5:43.
- Falk DA**. 1988. The Center for Plant Conservation: Conserving the Native Plant Genetic Diversity of the United States. *Diversity* 16:20-21.
- Falk DA**. 1988. Helping to Ensure a Future in the Wild. *Plant Conservation* 3(2): 3.
- Falk DA** and LR McMahan. 1987. Endangered Species: Managing for Diversity. *Natural Areas Journal* 8(2): 91-99.
- Falk DA**. 1987. Integrated Conservation Strategies for Endangered Plants. *Natural Areas Journal* 7(3): 118-123.
- Falk DA**. 1987. Endangered species conservation *ex situ*: The national view. In TS Elias (Ed.), *Conservation and Management of Rare and Endangered Plants*. California Native Plant Society, Sacramento, CA.
- Thibodeau FR and **DA Falk**. 1987. Building a national *ex situ* network: The U.S. Center for Plant Conservation. In D Bramwell, O Hamann, V Heywood, and H Synge (eds.), *Botanic Gardens and the World Conservation Strategy*. International Union for Conservation of Nature, Academic Press, London.
- Falk DA** and FR Thibodeau. 1986. Saving the Rarest. *Arnoldia* 46(3): 3-18.
- Falk DA** and FR Thibodeau. 1983. Saving the Pieces. *Restoration and Management Notes* 2(2):71-72.

Reviews of published work

- Maunder M. 1993. Reviewed Work(s): *Genetics and Conservation of Rare Plants* by Donald A. Falk and Kent E. Holsinger. *Kew Bulletin* 48 (2): 425-426. <https://www.jstor.org/stable/4117957>

Technical reports

- California Air Resources Board. 2021. California's Historical Fire Activity before Modern Fire Suppression. Public Comment Draft. Sacramento, CA.
- Gregg RM and LA Marshall. 2020. *Vegetation type conversion in the Southwest: A workshop summary*. Southwest Fire Science Consortium, Flagstaff, AZ. <https://www.swfireconsortium.org/2020/08/17/vegetation-type-conversion-in-the-southwest-a-workshop-summary/>
- Parks S, T Brown, **DA Falk**, P Gonzalez, M Hurteau, JM Morton, G Pederson, and D Peterson. 2018. *Protected landscapes in a world of rapid climate change: Identifying research needs to support resource management and policy development*. Aldo Leopold Wilderness Research Institute, Rocky Mountain Research Station. Missoula, MT. <https://leopold.wilderness.net/our-science/Science%20Plan/science-plan---climate-change-in-protected-areas---FINAL-0021.pdf>
- Garfin GM, **DA Falk**, K Jacobs, A Haverland, JL Weiss, JT Overpeck, CD O'Connor, A Haworth, and A Baglee. 2017. *Climate Change Impacts and Adaptation on Southwestern DoD Facilities*. Final Report of Project RC-2232 to the US Department of Defense Strategic Environmental Research and Development Program (SERDP). 235 pp + Appendices.
- O'Connor CD, F Treanor, **DA Falk**, and GM Garfin. 2016. *Climate change-type drought, temperature, and fire effects on Naval Base Coronado inland training sites, San Diego County, California*. Report of Project RC-2232 to the US Department of Defense Strategic Environmental Research and Development Program (SERDP). 32pp.
- O'Connor CD, BS Sheppard, **DA Falk**, and GM Garfin. 2016. *Quantifying post-fire flooding risk associated with changing climate at Fort Huachuca, Arizona*. Report of Project RC-2232 to the US Department of Defense Strategic Environmental Research and Development Program (SERDP). 32pp.
- Sutherland EK, PW Brewer, **DA Falk**, and ME Velásquez. 2016. *Fire History Analysis and Exploration System (FHAES) User Manual* [compiled 28 Sept 2016]. <http://www.fhaes.org> .

- O'Connor CD, GM Garfin, and **DA Falk**. 2015. *Projected climate change impacts on vegetation, fire, and wildlife habitat at Fort Huachuca, Arizona*. Report of Project RC-2232 to the US Department of Defense Strategic Environmental Research and Development Program (SERDP). 34 pp.
- O'Connor CD, **DA Falk**, AM Lynch, CP Wilcox, TW Swetnam, and TL Swetnam. 2013. *Growth and Demography of Pinaleno High Elevation Forests*. RJVA 07-JV-11221615317. Rocky Mountain Research Station, Ft. Collins, CO.
- Mitchell B, M Waltermann, T Mellin, CP Wilcox, AM Lynch, J Anhold, **DA Falk**, J Koprowski, D Laes, D Evans, H Fisk. 2012. *Mapping vegetation structure in the Pinaleno Mountains using LiDAR – Phase 3: forest inventory modeling*. RSAC-10007-RPT1. Salt Lake City, UT: U.S. Department of Agriculture, Forest Service, Remote Sensing Applications Center. 17 p.
- Laes D, T Mellin, CP Wilcox, J Anhold, P Maus, **DA Falk**, J Koprowski, S Drake, S Dale, H Fisk, P Joria, AM Lynch, and M Alanen. 2009. *Mapping vegetation structure in the Pinaleno Mountains using LiDAR*. RSAC-0118-RPT1. Salt Lake City, UT: U.S. Department of Agriculture, Forest Service, Remote Sensing Applications Center. 84 p.
- Falk DA**, C Cox, D Hill, T McKinnon, E Rosenberg, K Siderits, and TW Swetnam. 2008. *Fire on the Landscape: Planning for Communities, Fire, and Forest Health*. Technical Report of the Arizona Forest Health Advisory Council, Office of the Governor.
- Falk DA**, MK Briggs, and WL Halvorson. 1998. *The Riparian Restoration Ranking (R3) System*. Developed for the USDA Forest Service, Region III. Society for Ecological Restoration, Tucson, AZ.
- Falk DA** and PL Warren. 1994. *Population Status and Monitoring Protocols for Rare Plants of the Coronado National Forest*. The Nature Conservancy/USDA Forest Service, Tucson, AZ
- Falk DA**. 1978. *Final Report and Recommendations: Boston Harbor Islands State Park, Land Use Study*. Massachusetts Department of Environmental Management and Earthwatch, Inc.

Software

- Sutherland EK, PW Brewer, **DA Falk**, and ME Velásquez. 2015. *Fire History Analysis and Exploration System (FHAES)* Version 2.0.0. <http://www.fhaes.org> , <http://DOI:10.5281/zenodo.34142> .

General publications

- Garfin GG, KE Jacobs, and **DA Falk**. 2021. Is the Pentagon ready for climate change? *Arizona Daily Star* Op-Ed page, 14 November. https://tucson.com/opinion/local/local-opinion-is-the-department-of-defense-ready-for-climate-change/article_f624455a-43c8-11ec-90a3-631a72f1de74.html
- Falk DA** and C Cortés-Montaña. 2018. Climate change, forests, and fire in the southwestern US and northern Mexico. *Sonorensis* 38(1):16-20.
- Falk DA**. 2016. Ecosystems are Critical to Solving the Global Climate Crisis. *SERNews* (Society for Ecological Restoration) v. 30, Issue 1, February. [http://c.ymcdn.com/sites/www.ser.org/resource/resmgr/Publications/SERNews/30-1_SERNews_\(2016\).pdf](http://c.ymcdn.com/sites/www.ser.org/resource/resmgr/Publications/SERNews/30-1_SERNews_(2016).pdf)
- Liverman DM and **DA Falk**. 2015. World waking up to climate change. *Arizona Daily Star* 19 December. Lead editorial about COP21 Paris climate summit. http://tucson.com/news/opinion/column/guest/liverman-and-falk-world-waking-up-to-climate-change/article_2a6b6058-6242-57bd-9acd-87ba6b72bd77.html
- Falk DA** and GM Garfin. 2013. A dubious achievement for humanity. *Arizona Daily Star*, Editorial Page, Sunday 29 September and online (http://azstarnet.com/news/opinion/a-dubious-achievement-for-humanity/article_496ca222-7407-5b7c-a5cc-934b64557331.html)
- Falk, DA**. 2013. Fire: Lessons of the Past. *Sonorensis* Winter 2013:24-25.
- Falk DA**. 1999. Dating advice: Adapting to Y2K. *Tucson Weekly* 31 Dec 1999. <http://www.tucsonweekly.com/tucson/dating-advice/Content?oid=1065725>
- Falk DA**. 1995. Review of *Principles and practices of plant conservation*, DR Given (Timber Press, 1994). *Plant Talk* 3: 33-34.
- Falk DA** and EA Falk. 1995. Issues facing rare plants in the Chiricahuas. *Bajada* 3(3): 1.

- Falk DA.** Review of RA Mello, *Last Stand of the Red Spruce*. Island Press/Natural Resources Defense Council, Washington, D.C. *Conservation Biology* 3(1): 106-7.
- Falk DA.** 1992. In defense of endangered species. *Missouri Botanical Garden Op-Ed Service* 10/92.
- Falk DA.** 1992. Steps to the Formation of a National Plant Conservation Network. In Butler G, L Meredith, and M Richardson (Eds.), *Conservation of Rare or Threatened Plants in Australia*, Australian National Parks and Wildlife Service, Canberra, Australia, pp. 113-123.
- Falk DA.** 1988. Testimony on the National Biological Diversity, Conservation and Research Act. U.S. House of Representatives, Committee on Science, Space, and Technology, Subcommittee on Natural Resources, Agricultural Research, and the Environment. 31 May.
- Falk DA.** 1984 – 1988. Reviews in *Choice* (American Library Association), eleven works.
- Falk DA** and PS Ashton. 1987. Testimony to the U.S. House of Representatives, Committee on Science, Space, and Technology, Subcommittee on Natural Resources, Agricultural Research, and the Environment
- Falk DA** and KS Walter. 1986. Networking to Save Endangered Plants. *Garden* 10(1): 2-10. Reprinted: *On the Fringe* (Native Plant Society of Northeastern Ohio) 6(2): 3-9, March/April 1987; *Wildflower* 2(4): 16-18, Autumn 1986.
- Falk DA** and FR Thibodeau. 1985. A New Response to Endangerment. *The Public Garden* (Journal of the American Association of Botanical Gardens and Arboreta) 1(1):14-18.
- Falk, DA** 1980. CAP-sized. *Working Papers*. November/December.
- Falk, DA** 1980. Labor Unions and Safe Energy. *Liberation News Service* 30 October.
- Falk, DA** 1979. The Maker of Patterns. *Boston Phoenix* 27 November: 2-3. Interview and profile of Gregory Bateson.
- Falk, DA** 1979. A Delegation of Survivors: A Visit from Hiroshima/Nagasaki. *Boston Globe* 27 March.
- Falk, DA** 1979. Hiroshima: A Victim Remembers. *Boston Globe* 7 August. Interview with *hibakusha* Shigeko Sasamori. Distributed nationally by Associated Press.
- Falk, D.A.** 1978. Pilgrim's Progress and a Town's Taxes. *Boston Phoenix* 9 January.
- Falk, DA** 1978. Solar Energy in New England: A Mixed Forecast. *Boston Phoenix* 11 July. Cover story on regional solar energy development.
- Falk, DA** 1978. The Sleeper in Carter's Energy Plan. *Boston Phoenix* 28 February. Feature article on National Energy Plan. Reprinted: *Massachusetts Physician*, Spring 1978.

Editorial Panels

- 2019 – current Co-Editor, *Remote Sensing* Special Issue “Earth Observations for Ecosystem Resilience” (https://www.mdpi.com/journal/remotesensing/special_issues/ecosystem_resilience_RS). Papers published: Bernardino *et al.* 2020, Vova *et al.* 2020, Balch *et al.* 2020, Khatri-Chhetri *et al.* 2021, Swetnam *et al.* 2021.
- 1998 – current Co-founder (Associate Series Editor, 2000-2008; Editorial Board 2008 – present), Book Series: *Science & Practice of Ecological Restoration*, Island Press and Society for Ecological Restoration. <https://islandpress.org/books/science-and-practice-ecological-restoration-series> Titles published to date: 28.
- 1999 Review Panel, Interagency Guidance on Wetlands Restoration, White House Wetlands Working Group, Department of Defense.
- 1996 – 98 Section editor, Conservation and Ecological Management, *Encyclopedia of Ecology and Environmental Management*, P Calow (Ed.). 1998. Blackwell Science, Oxford, U. K.
- 1989 Contributor, *Loss of Biological Diversity: A Global Crisis Requiring International Solutions*. National Science Board, Committee on International Science, Task Force on Global Biodiversity.

RESEARCH SUPPORT

Central Oregon Fire Management Service

Collaborative Forest Restoration Program, US Forest Service

Coronado National Forest
Ecological Restoration Institute, Northern
Arizona University
Ecosystem Interest Group, College of Forest
Resources, U. Washington
Global Change Research Program, US Forest
Service
Joint Fire Science Program
Mazamas Research Committee
National Park Service (Saguaro, Zion NPs)
National Science Foundation
National Center for Ecological Analysis &
Synthesis
Natural Resources Conservation Service
Pima County Regional Flood Control District

Rocky Mountain Research Station, US Forest
Service
T&E Foundation
US Department of Defense, Strategic
Environmental Research and Development
Program (SERDP)
USGS, Southwest Climate Adaptation Science
Center
University of Arizona:
Arizona Institutes for Resilience
Ecology & Evolutionary Biology
Research Innovation Challenge, College of
Agriculture and Life Sciences
Institute of the Environment
Faculty Seed Grant, VP for Research

SELECTED LECTURES AND KEYNOTE PRESENTATIONS

American Association for the Advancement of
Science (AAAS)
American Geophysical Union (AGU)
AmeriDendro
Arizona Cooperative Extension Service
Arizona Native Plant Society
Association of American Geographers (AAG)
Association for Fire Ecology
Center for Plant Conservation
Central Oregon Fire Science Symposia
Chicago Botanic Garden
Chinese Academy of Sciences, Peoples' Republic of
China
Collaborative Forest Restoration Program, US Forest
Service
Consultative Group on Biological Diversity
Colorado State University
Columbia University, Lamont-Doherty Earth
Observatory
Ecological Landscape Association
Ecological Restoration Institute, Northern Arizona
University
Ecological Society of America
Fire Sciences Laboratory, US Forest Service
Forest Guild
Gila River Basin Restoration Forum
Harvard Club of Tucson
Institute of the Environment
International Association for Landscape Ecology
International Institute for Tropical Forestry, Puerto
Rico
Joint Fire Science Program
Missouri Botanical Garden, Fall Symposium

Mountain Climate Sciences Symposium
National Advanced Fire and Resource Institute
National Center for Ecological Analysis & Synthesis
National Forestry and Grasslands Administration,
Peoples' Republic of China
Natural Areas Association
New England Wildflower Society, Centennial Tour
New Mexico Forest and Watershed Health Board
Oklahoma State University
Pacific Southwest Research Station, US Forest
Service
Santa Cruz Watershed Collaborative
Santa Fe Forest Forum
Society of American Foresters
Society for Ecological Restoration
Society for Range Management
Southwest Fire Science Consortium
St. Albert Forum on Theology and Science, Newman
Center, University of Arizona
The Nature Conservancy, Fire Learning Network
The Royal Society, UK
United States Congress
University of Arizona, Desert Laboratory
University Corporation for Atmospheric Research
(UCAR)
University of Gröningen, Netherlands
University of North Carolina
US Forest Service, Regional Landscape Architecture
Summit
USGS Southwest Climate Adaptation Science Center
USGS Western Mountain Initiative

PEER REVIEW

Air, Soil, and Water Research
BioScience
 Blackwell Science
 Cambridge University Press
Canadian Journal of Forest Research
Climatic Change
Canadian Journal of Water Resources
Conservation Biology
Diversity and Distributions
Ecology
Ecological Applications
Ecological Modeling
Ecosphere
EcoScience
Environmental Research Letters
Fire Ecology
Forest Ecology & Management
Frontiers in Ecology and the Environment
Global Change Biology
International Journal of Wildland Fire
 Island Press
Journal of Arid Environments
Journal of Biogeography
Journal of Ecology

Journal of Forestry
Journal of the Royal Society Interface
Journal of Vegetation Science
Landscape Ecology
 MacArthur Fellows Program
 Natural Environment Research Council (NERC), UK
Nature Ecology & Evolution
 Natural Sciences and Engineering Research Council
 of Canada (NSERC)
 National Science Foundation (US)
Nature Reviews Genetics
Oecologia
 Oxford University Press
Plant Diversity
Proceedings of the National Academy of Sciences
 (PNAS)
Quarterly Review of Biology
Remote Sensing
Restoration Ecology
Science
Turkish Journal of Agriculture and Forestry
US Geological Survey
Western Journal of Applied Forestry

BOARDS AND COMMITTEES

2020 California Air Resources Board, SB 901 “Historical Wildfire Emissions Baseline”
 Science Advisory Group
 2020 Reviewer, IPCC AR6 Working Group I (Second Order Draft)
 2019 – current Member-at Large, Society for Ecological Restoration, Southwest Chapter
 2019 – current Faculty Status Committee, School of Natural Resources and the Environment, University
 of Arizona (Chair 2021-2022)
 2019 – 2021 Diversity and Inclusion Council, Division of Agriculture, Life and Veterinary Sciences,
 and Cooperative Extension (ALVSCE), University of Arizona
 2019 Faculty Promotion and Tenure Committee, Laboratory of Tree-Ring Research, University
 of Arizona.
 2018 – current Core Advisory Team, Center for Climate Adaptation Science and Solutions, University
 of Arizona (<https://www.ccass.arizona.edu/node/364>)
 2018 Co-Chair (with Jia Hu), SNRE Departmental Seminar Series, “Women in Ecology and
 Natural Resources.”
 2018 Program Review Panel, Institute of the Environment
 2017 – current Inclusive Excellence Committee, School of Natural Resources and the Environment,
 University of Arizona (Co-Chair 2017-2021)
 2011 – current Chair, Global Change Ecology and Management Working Group, School of Natural
 Resources and the Environment, University of Arizona
 2010 – current Executive Board, Southwest Fire Science Consortium
 2008 – current Working Group, Fire History Analysis and Exploration (FHAES) program
 (www.frames.gov/fhaes)
 2007 – current Advisor, Society for Ecological Restoration-Nepal
 2003 – 2011 Office of the Governor, Arizona Forest Health Council
 2001 – 2003 US Forest Service, Collaborative Forest Restoration Program, Technical Advisory Panel

1994 – current Indigenous Peoples Restoration Network
1993 – 2003 Native Seeds/SEARCH, Board of Directors
1991 – 1994 IUCN Species Survival Commission, Reintroduction Specialist Group
1988 – 1993 Society for Ecological Restoration, Madison, WI, Board of Directors
1984 – 1993 American Association of Botanical Gardens & Arboreta, Plant Conservation Committee

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science
Association for Fire Ecology
Ecological Society of America
International Association for Landscape Ecology
Society for Ecological Restoration
Tree-Ring Society

MENTORS (current affiliations shown)

W Wallace Covington (Northern Arizona University); Peter Dreier (Occidental College); Kenneth Geiser (University of Massachusetts-Lowell); Lisa Graumlich (University of Washington); Charles Halpern (University of Washington); Sheldon Krimsky (Tufts University); Norton Nickerson (Tufts University); Peter H. Raven (Missouri Botanical Garden); Robert Robichaux (University of Arizona); Thomas W. Swetnam (University of Arizona); D. Lawrence Venable (University of Arizona).

POST-DOCTORAL SCHOLARS

Newman, Erica (University of California, Berkeley) 2018-2020
O'Connor, Christopher (University of Arizona) 2013-2015
Swetnam, Tyson (University of Arizona) 2013-2016

CURRENT AND GRADUATED STUDENTS (current affiliation)

Arizpe, Alexis, MS 2015 (Gregor Mendel Institute, Vienna, Austria)
Chiriboga, April, PhD 2015
Conver, Joshua, MS 2011 (University of Cincinnati)
Dewar, Jacqueline, MS 2011 (Alberta Fire Management Service)
Fulé, Emily, MS (in process)
Guiterman, Christopher, PhD 2016 (NOAA/NCEI, Paleoclimate program)
Hannah, Dustin, MS 2014 (Northern Arizona University)
Kellerman, Jherime, PhD 2012 (Oregon Institute of Technology)
Ketcham, Shari, MS 2015 (US Forest Service)
Lalor, Alexandra, MS (in process)
Lee, Kangsan, PhD (in process)
Leinberger, Amanda, PhD (in process)
Lepley, Kai, MS 2018 (Technicians for Sustainability)
Lombardo, Keith, PhD 2012 (Cabrillo National Monument, National Park Service)
Macalady, Alison, PhD 2015 (National Research Council, Board on Atmospheric Sciences and Climate)
Maghran, Lauren, MS 2014 (US Environmental Protection Agency)
Marshall, Laura, PhD 2019 (Colorado State University)
Minor, Jesse, PhD 2017 (University of Maine, Farmington)
O'Connor, Christopher, PhD 2013 (US Forest Service, Rocky Mountain Research Station)
Pelletier, Pamela, PhD (in process)
Schulze, Scott, MS (US Department of Defense, Davis-Monthan AFB)
Sharma, Akanksha, MS 2018 (University of Georgia)
Sidman, Gabriel, MS 2013 (Winrock International)
Smith, Marielle, PhD 2017 (Michigan State University)
Swetnam, Tyson, PhD 2013 (University of Arizona, Data Science Institute/Cyverse)

Taylor, Erana, PhD 2021 (Aldo Leopold Wilderness Institute, US Forest Service)
Towne, Geoffrey, MS 2013 (Tucson Water)
Von Haupt, Lea, MS (in process)
Walker, Athan, MSc (University of Arizona Computer Science, in process)
Webb, Amanda, MS 2017 (University of Arizona)
Wickhorst, Andrew, MS 2015 (City of Phoenix)
Williams, Emma, MS 2016 (US Forest Service, Tahoe Basin)