

## CURRICULUM VITAE

October 2023

### **Hannah Brenkert-Smith, Ph.D.**

Research Associate Professor  
Environment & Society Program  
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### **PROFESSIONAL EXPERIENCE**

<i>Associate Research Professor</i> November 2020 – present	Institute of Behavioral Science - Environment & Society Program University of Colorado – Boulder
<i>Assistant Research Professor</i> May 2018 – November 2020	Institute of Behavioral Science - Environment & Society Program University of Colorado – Boulder
<i>Research Associate</i> January 2011 – April 2018	Institute of Behavioral Science - Environment & Society Program University of Colorado – Boulder
<i>Postdoctoral Fellow</i> January 2009- January 2011	National Center for Atmospheric Research Advanced Study Program Integrated Science Program: Research Applications Lab
<i>Science Policy Fellow</i> Winter 2007	National Academies of Science, Washington, D.C. Christine Mirzayan Science and Technology Policy Fellowship Committee on the Human Dimensions of Global Change
<i>EPA STAR Fellow</i> September 2005 – August 2008	U.S. Environmental Protection Agency STAR (Science to Achieve Results) Fellowship Dissertation Project: Wildfire Risk Decision-Making in the Wildland-Urban Interface
<i>Graduate Research Assistant</i> May 2004 - August 2005	Institute of Behavioral Science; Environment and Behavior University of Colorado, Boulder, CO Project: The Effect of Proximity to Wildfire Risk on Mitigation Efforts by Homeowners at the Wildland-Urban Interface
<i>Graduate Research Assistant</i> May 2003 - May 2004	Institute of Behavioral Science; Environment and Behavior University of Colorado, Boulder, CO Project: Institutions and Incentives for Mitigating Wildfire Risks
<i>Graduate Teaching Assistant</i> January 2003 - May 2003	Department of Sociology- Course: Data Analysis University of Colorado, Boulder, CO
May 2002 – December 2002	University of Colorado, Boulder, CO Department of Sociology- Course: Research Methods
August 2001 - May 2002	University of Maryland, College Park, MD Department of Sociology- Courses: Research Methods & Social Problems

### **EDUCATION**

- Ph.D., Sociology* University of Colorado at Boulder  
 August 2008 Ph.D. Dissertation: *Placing Wildfire in Context: Environmental and Social Dimensions of Mitigation Decision-Making*  
 Dissertation Committee: Drs. Lori Hunter (Chair), Kathleen Tierney, Daniel R. Williams, Nicholas Flores, Jane Menken  
 August 2002 - August 2008
- M.A., Women's Studies* San Francisco State University, San Francisco, CA  
 May 1999 MA Thesis: *Constructing Population Targets and Truths: Gender and Population in the Development Apparatus*  
 Thesis Committee: Drs. M.A. Jaimes Guerrero (Chair), Minoo Moallem, Inderpal Grewal, Chinosole  
 August 1997 - May 1999
- B.A., Women's Studies* University of Colorado at Boulder  
 May 1995 August 1991 - May 1995

### **SPECIALIZED TRAINING**

- U.S. Peace Corps* Agroforestry Extension  
 1999-2000 Cameroon, Africa

### **Peer Reviewed Publications:**

- Brenkert-Smith, H.**, Goolsby, J.B., Champ, P.A., Meldrum, J.R., Donovan, C., Wagner, C., Barth, C.M., Forester, C., Wittenbrink, S. *Accepted*. The devil is in the details: Variation in public acceptance of fuels treatments across western fire-prone communities. *Western Economics Forum*
- Meldrum, J.R., Champ, P.A., **Brenkert-Smith, H.**, Barth, C.M., McConnell, A.E., Wagner, C., Donovan, C. 2024. Rethinking cost-share programs in consideration of economic equity: A case study of wildfire risk mitigation assistance for private landowners. *Ecological Economics*  
<https://doi.org/10.1016/j.ecolecon.2023.108041>
- Champ, P.A., **Brenkert-Smith, H.**, Riley, J., Meldrum, J.R., Donovan, C., Barth, C. and Wagner, C. 2022. Actionable social science can guide community level wildfire solutions: An illustration from North Central Washington, U.S. *International Journal of Disaster Risk Reduction*.  
<https://www.sciencedirect.com/science/article/pii/S2212420922006070>
- Byerly, H., Champ, P.A., Meldrum, J.R., **Brenkert-Smith, H.** 2022. Wildfire imagery reduces risk information-seeking among homeowners as property wildfire risk increases. *Nature - Communications Earth & Environment*. <https://www.nature.com/articles/s43247-022-00505-7>
- Byerly, H., P. Cada, P.A. Champ, J. Gomez, D. Margoles, J.R. Meldrum, **H. Brenkert-Smith**. 2022. You vs. Us: Framing adaptation behavior in terms of private or social benefits. *Climatic Change*, 174:11.  
<https://doi.org/10.1007/s10584-022-03400-4>
- Qin, H., Vickery, J., **Brenkert-Smith, H.**, Bekee, B., & Prasetyo, Y. 2022. Do actions reduce perceived risk? A longitudinal analysis of the relationship between risk perception and actions in response to forest disturbance in Colorado. *Risk Analysis*, 1–13. <https://doi.org/10.1111/risa.14023>
- Meldrum, J.R., C.M. Barth, J.B. Goolsby, S.K. Olson, A.C. Gosey, J. White, **H. Brenkert-Smith**, P.A. Champ, and J. Gomez. 2022. Parcel-Level Risk Affects Wildfire Outcomes: Insights from Pre-Fire Rapid Assessment Data for Homes Destroyed in 2020 East Troublesome Fire. *Fire* 5(1): 24. <https://www.mdpi.com/2571-6255/5/1/24>

- Qin, H., **Brenkert-Smith, H.**, Vickery, J., Sanders, C., and Bass, M. 2021. Explaining Changes in Perceived Wildfire Risk Related to the Mountain Pine Beetle Outbreak in North Central Colorado. *Ecological Indicators*, 130: 108080. <https://doi.org/10.1016/j.ecolind.2021.108080>
- Qin, H., **Brenkert-Smith, H.**, Vickery, J., Sanders, C., and Flint, C. 2021. Changing Perceptions and Actions in Response to Forest Disturbance by Mountain Pine Beetles in North-Central Colorado. *Journal of Forestry*, 119(5):493-505. <https://doi.org/10.1093/jofore/fvab020>
- Meldrum, J.R., **Brenkert-Smith, H.**, Champ, P., Gomez, J., Byerly, H., Falk, L., Barth, C. 2021. Would you like to know more? The effect of personalized wildfire risk information and social comparisons on information-seeking behavior in the wildland-urban interface. *Natural Hazards*. <https://doi.org/10.1007/s11069-021-04534-x>
- Byerly, H., Meldrum, J., **Brenkert-Smith, H.**, Champ, P., Gomez, J., Falk, L., and Barth, C. 2020. Developing behavioral and evidence-based programs for wildfire risk mitigation. *Fire* 3(4): 66. <https://doi.org/10.3390/fire3040066>
- Dickinson, K.L., **H. Brenkert-Smith**, G. Madonia, and N.E. Flores. 2020. Risk interdependency, social norms, and wildfire mitigation: a choice experiment. *Natural Hazards* 103(1327–1354). <https://doi.org/10.1007/s11069-020-04037-1>
- Jahn, J., White, M., and **Brenkert-Smith, H.** 2020. My place or yours? Using spatial frames to understand the role of place in forest management conflicts. *Society and Natural Resources* 33(3) 329-346. <https://doi.org/10.1080/08941920.2019.1709003>
- Brenkert-Smith, H.**, Jahn, J., White, M., and E. Vance, and Ahumanda, J.I. 2020. Resistance and representation in a wildland-urban interface fuels treatment conflict: The case of the Forsythe II project in the Arapaho-Roosevelt National Forest. *Fire* 3(1), 2. <https://doi.org/10.3390/fire3010002>
- Champ, P., Meldrum, J., **Brenkert-Smith, H.**, Warziniack, T., Barth, C., Falk, L., and Gomez, J. 2020. Do actions speak louder than words? Comparing the effect of risk aversion on objective and self-reported mitigation measures. *Journal of Economic Behavior and Organization* 169:301-313. <https://doi.org/10.1016/j.jebo.2019.11.019>
- Vickery, J., **Brenkert-Smith, H.**, and Qin, H. 2019. Using conjoint constitution to understand responses to slow-moving environmental change: The case of mountain pine beetle in north-central Colorado. *Environmental Sociology*. <https://doi.org/10.1080/23251042.2019.1706263>
- Meldrum, J.R., **Brenkert-Smith, H.**, Champ, P., Gomez, J., Falk, L., Barth, C. 2019. Interactions between Resident Risk Perceptions and Wildfire Risk Mitigation: Evidence from Simultaneous Equations Modeling. *Fire* 2(46): 1-18. <https://doi.org/10.3390/fire2030046>
- Warziniack, T., P. Champ, J. Meldrum, **H. Brenkert-Smith**, C. Barth, and L.C. Falk. 2018. Responding to risky neighbors: Testing for spatial spillover effects for defensible space in a fire-prone WUI community. *Environmental & Resource Economics*, <https://doi.org/10.1007/s10640-018-0286-0>
- Meldrum, J., Champ, P. and **Brenkert-Smith, H.**, Falk, L.C., and Barth, C. 2018. Wildland-urban interface residents' relationships with wildfire: variation within and across communities. *Society and Natural Resources* 31(10):1132-1148. <https://www.tandfonline.com/doi/abs/10.1080/08941920.2018.1456592>  
<https://doi.org/10.1080/08941920.2018.1456592>
- Brenkert-Smith, H.**, Dickinson, K. and Flores, N. 2018. Relevant recruiting for online survey participation. *SAGE Research Methods Cases Part 2*. <https://dx.doi.org/10.4135/9781526438027>.  
[https://scholar.colorado.edu/ibs\\_facpapers/4/](https://scholar.colorado.edu/ibs_facpapers/4/)
- Brenkert-Smith, H.**, Meldrum, J., Champ, P., and Barth, C. 2017. Where you stand depends on where you sit: A qualitative inquiry into notions of fire adaptation. *Ecology and Society* 22(3):7. <https://doi.org/10.5751/ES-09471-220307>

- Schoennagel, T., Balch, J., **Brenkert-Smith, H.**, Dennison, P., Harvey, B., Krawchuk, M., Morgan, P. Moritz, M., Rasker, R., Turner, M.G., and Whitlock, C. 2017. Adaptation to western wildfires as climate changes. *Proceedings of the National Academy of Sciences* 114(18): 4582-4590. <https://doi.org/10.1073/pnas.1617464114>
- Champ, P.A. and **H. Brenkert-Smith**. 2016. Is Seeing Believing? Wildfire risk perceptions after a catastrophic fire. *Risk Analysis* 36(4): 816-830. <https://doi.org/10.1111/risa.12465>
- Brenkert-Smith, H.**, J. Meldrum, and P.A. Champ. 2015. Climate change beliefs and hazard mitigation behaviors: Homeowners and wildfire risk. *Environmental Hazards* 14(4): 341-360. <https://doi.org/10.1080/17477891.2015.1080656>
- Paveglio, T., **H. Brenkert-Smith**, T. Hall, and A. Smith. 2015. Understanding social impact from wildfires: Advancing a means for assessment. *International Journal of Wildland Fire* 24(2): 212-224. <https://doi.org/10.1071/WF14091>
- Meldrum, J., P. Champ, **H. Brenkert-Smith**, T. Warziniack, C. Barth, and L. Falk. 2015. Understanding the Gap between the Risk Perceptions of WUI Residents and Wildfire Professionals. *Risk Analysis* 35(9) 1746. <https://doi.org/10.1111/risa.12370>
- Paveglio, T., M. Carroll, T. Hall, **H. Brenkert-Smith**. 2015. Put the Wet Stuff on the Hot Stuff: Fire management delegation and trust among local communities: The Columbia Complex Fire. *Journal of Rural Studies*, 41:72-81. <https://doi.org/10.1016/j.jrurstud.2015.07.006>
- Dickinson, K., **H. Brenkert-Smith**, P. Champ, and N. Flores. 2015. Catching Fire: Social Interactions, Risk Perceptions, and Wildfire Mitigation Behaviors. *Society and Natural Resources* 28(8):807-829. <https://doi.org/10.1080/08941920.2015.1037034>
- Petty, A., C. Isendahl, **H. Brenkert-Smith**, D.J. Goldstein, T.C. Kumasi, A. Rahman, and J.M. Rhemtulla. 2015. Applying historical ecology to natural resource management institutions: lessons from two case studies of landscape fire management. *Global Environmental Change* 31:1-10. <https://doi.org/10.1016/j.gloenvcha.2014.11.004>
- Meldrum, J., P.A. Champ, T. Warziniczek, **H. Brenkert-Smith**, C.M. Barth, and L.C. Falk. 2014. Cost shared wildfire risk mitigation in Log Hill Mesa, Colorado: Survey evidence on participation and willingness to pay. *International Journal of Wildland Fire* 23:567-576.
- Nawrotzki, R., **H. Brenkert-Smith**, L. Hunter, P. Champ, and N. Flores. 2014. Wildfire-Migration Dynamics: Lessons from Colorado's Fourmile Canyon Fire. *Society and Natural Resources* 27(2): 215-225.
- P.A. Fischer, T. Paveglio, M. Carroll, D. Murphy, and **H. Brenkert-Smith**. 2013. Assessing Social Vulnerability to Climate Change in Human Communities near Public Forests and Grasslands: A Framework for Resource Managers and Planners. *Journal of Forestry* 111(5): 357-365.
- Brenkert-Smith, H.**, K. Dickinson, P. Champ, and N. Flores. 2013. Social Amplification of Wildfire Risk: The role of social interactions and information sources. *Risk Analysis* 33(5): 800-817. doi: 10.1111/j.1539-6924.2012.01917.x.
- Brenkert-Smith, H.**, P. Champ, and N. Flores. 2012. Trying not to get burned: Understanding Homeowners' Wildfire Risk Mitigation Behaviors. *Environmental Management* 50(6): 1139-1151.
- M. Hayden, **H. Brenkert-Smith**, and O. Wilhelmi. 2011. Differential Adaptive Capacity to Extreme Heat: A Phoenix, AZ Case Study. *Weather, Climate, and Society* 3(4): 269-280.
- Brenkert-Smith, H.** 2011. Homeowners' perspectives on the parcel approach to wildland fire mitigation: the role of community context in two Colorado communities. *Journal of Forestry* 109(4): 193-200. <https://doi.org/10.1093/jof/109.4.193>
- Brenkert-Smith, H.** 2010. Building Bridges to Fight Fire: The role of informal social interactions in six Colorado wildland-urban interface communities. *International Journal of Wildland Fire* 19(1):689-697.

**Brenkert-Smith, H.** 2006. The Place of Fire. *Natural Hazards Review* 7(3):105-113.  
[https://doi.org/10.1061/\(ASCE\)1527-6988\(2006\)7:3\(105\)](https://doi.org/10.1061/(ASCE)1527-6988(2006)7:3(105))

**Brenkert-Smith, H.,** P. Champ, and N. Flores. 2006. Qualitative Insights into Wildfire Mitigation. *Society and Natural Resources* 19(8): 759-768.

**Manuscripts in Review** (titles altered to preserve anonymity)

**Professional or Technical publications**

**Brenkert-Smith, H.;** Dalton, D.; Puffett, J.; Champ, P.A.; Barth, C.M.; Meldrum, J.R.; Donovan, C.; Wagner, C.; Goolsby, J.B.; Forrester, C. 2023. Living with Wildfire in Genesee Fire Protection District, Jefferson County, Colorado: 2022 Data Report. Res. Note RMRS-RN-99. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 123 p. <https://doi.org/10.2737/RMRS-RN-99>.

Goolsby, J.; **Brenkert-Smith, H.;** Reid, D.; Meldrum, J.R.; Champ, P.A.; Barth, C.M.; Donovan, C.; Wagner, C.. 2023. Living with Wildfire in Emigration Canyon, Utah: 2022 data report. Res. Note RMRS-RN-98. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 143 p. <https://doi.org/10.2737/RMRS-RN-98>.

**Brenkert-Smith, H.;** Champ, P.A.; McConnell, A.E.; Gomez, J.; Barth, C.M.; Meldrum, J.R.; Donovan, C.; Wagner, C.; Goolsby, J.B. 2023. Living with wildfire in Park County, Colorado: 2021 data report. Res. Note RMRS-RN-97. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 93 p. <https://www.fs.usda.gov/research/treesearch/65848>

**Brenkert-Smith, H.,** McConnell, A.E., Olson, S., Gosey, A., Meldrum, J.R., Gomez, J., Barth, C.M., Donovan, C., Wagner, C., Goolsby, J.. 2022. Living with wildfire in Grand County, Colorado: 2021 data report. Res. Note RMRS-RN-94. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 178 p. <https://doi.org/10.2737/RMRS-RN-94>

Goolsby, J.B., P.A. Champ, **H. Brenkert-Smith,** B.J. Clauson, R.M. Sgroi, L. Williams, C.M. Barth, J.R. Meldrum, C. Donovan, C. Wagner. 2022. Living with Wildfire in Teton County, Wyoming 2021 data report. Res. Note RMRS-RN-93. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 92 p. <https://doi.org/10.2737/RMRS-RN-93>

Donovan, C., J.P. Gomez, L. Falk, C.M. Barth, P.A. Champ, **H. Brenkert-Smith,** J.R. Meldrum, C. Wagner. 2022. Living with wildfire in Log Hill Mesa, Ouray County, Colorado: 2017 data report and a comparison to 2011 and 2012 data. Res. Note RMRS-RN-91. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 45 p. <https://doi.org/10.2737/RMRS-RN-91>.  
<https://www.fs.usda.gov/treesearch/pubs/63688>

Champ, P.A., Goolsby, J.B., Shaver, J.T., Kuehn, J.; Meldrum, J.R., **Brenkert-Smith, H.,** Barth, C.M., Donovan, C., Wagner, C. 2021. Living with wildfire in Chalk Creek, Chaffee County, Colorado: 2019 data report. Res. Note RMRS-RN-90. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 81 p. <https://doi.org/10.2737/RMRS-RN-90>

Champ, P., Barth, C., **Brenkert-Smith, H.,** Falk, L., Gomez, J., Meldrum, J.R. 2021 Putting people first: Using social science to reduce risk. *Wildfire Magazine* 30.2:30-34. <https://www.iawfonline.org/article/putting-people-first-using-social-science-to-reduce-risk/>

**Brenkert-Smith, H.,** Chambers, C., Gibble, K., Barth, C.M., Donovan, C., Wagner, C., Lerch, A., Meldrum, J.R., and Champ, P.A. 2021. Living with wildfire in the Ashland, Oregon: 2020 data report. Res. Note RMRS-RN-88. Fort Collins, CO: U.S. Department of Agriculture, Rocky Mountain Research Station. 54 p. <https://www.fs.usda.gov/treesearch/pubs/61748>

- Brenkert-Smith, H.**, Champ, P.A., Riley, J.; Barth, C.M., Donovan, C.; Meldrum, J.R., Wagner, C. 2020. Living with wildfire in the Squilchuck Drainage—Chelan County, Washington: 2020 data report. Research Note RMRS-RN-87. Fort Collins, CO: U.S. Department of Agriculture, Rocky Mountain Research Station. 125 p. <https://www.fs.usda.gov/treearch/pubs/60840>
- Wyborn, C., M. Essen, M. Nielsen-Pincus, P. Champ, B. Gray, L. Yung, T. Paveglio, C. Evers, B. A. Miller, D.R. Williams, **H. Brenkert-Smith**, D. Jacobs, P. Haggerty, A. Schmidt, J. Riley, C. Edgeley, M. Carroll, and M. Billings. 2020. Co-Management of Fire Risk Transmission Partnership Fall 2019 workshop report. USDA Forest Service, Rocky Mountain Research Station. Fort Collins, Colorado.
- Qin, J.H., E. Prentice, and **Brenkert-Smith, H.** 2019. Mountain Pine Beetles and Colorado Forests: Findings from a re-survey of Colorado community residents. <https://mospace.umsystem.edu/xmlui/handle/10355/70377>.
- Jahn, Jody L.S., **Brenkert-Smith, H.** 2019. Defining “Resilient Landscapes” from Multiple Stakeholders in a Wildland-Urban Interface (WUI) Area. Final Project Report (16-3-01-37). [https://www.firescience.gov/projects/16-3-01-37/project/16-3-01-37\\_final\\_report.pdf](https://www.firescience.gov/projects/16-3-01-37/project/16-3-01-37_final_report.pdf)
- Champ, P. and **Brenkert-Smith, H.** 2019. WiRē-CCFD1: Wildfire Research Preliminary Results. Co-Management of Fire Risk Transmission Partnership. USDA Forest Service. Rocky Mountain Research Station.
- Meldrum, J.R.; **Brenkert-Smith, H.**; Wilson, P.; Champ, P.A.; Barth, C.M.; Boag, A.. 2019. Living with wildfire in Archuleta County, Colorado: 2015 data report. Res. Note RMRS-RN-79. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 38 p. [https://www.fs.fed.us/rm/pubs\\_series/rmrs/rn/rmrs\\_rm079.pdf](https://www.fs.fed.us/rm/pubs_series/rmrs/rn/rmrs_rm079.pdf) <https://www.fs.usda.gov/treearch/pubs/57791>
- Brenkert-Smith, H.**; Meldrum, J.R.; Wilson, P.; Champ, P.A.; Barth, C.M.; Boag, A.. 2019. Living with wildfire in La Plata County, Colorado: 2015 data report. Res. Note RMRS-RN-80. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 36 p. [https://www.fs.fed.us/rm/pubs\\_series/rmrs/rn/rmrs\\_rm080.pdf](https://www.fs.fed.us/rm/pubs_series/rmrs/rn/rmrs_rm080.pdf) <https://www.fs.usda.gov/treearch/pubs/57792>
- Brenkert-Smith, H.**; Meldrum, J.R.; Wilson, P.; Champ, P.A.; Barth, C.M.; Boag, A.. 2019. Living with Wildfire in Montezuma County, Colorado: 2015 Data Report. Res. Note RMRS-RN-81. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 36 p. [https://www.fs.fed.us/rm/pubs\\_series/rmrs/rn/rmrs\\_rm081.pdf](https://www.fs.fed.us/rm/pubs_series/rmrs/rn/rmrs_rm081.pdf) <https://www.fs.usda.gov/treearch/pubs/57793>
- Brenkert-Smith, H.**, Jahn, J., Ahumada, J. 2018. Survey data report: Defining “Resilient Landscapes” from multiple stakeholder perspectives in a wildland-urban interface (WUI) area. Joint Fire Sciences Project 16-3-01-37. [https://www.firescience.gov/JFSP\\_advanced\\_search\\_results\\_detail.cfm?jdbid=%24%26JO5W%20%20%20%0A](https://www.firescience.gov/JFSP_advanced_search_results_detail.cfm?jdbid=%24%26JO5W%20%20%20%0A)
- Brenkert-Smith, H.** and the WiRē team. 2018. Asking is better than assuming: Enhancing the work of wildfire practitioners with social science. Fire Adapted Communities Learning Network. <https://fireadaptednetwork.org/asking-better-assuming-enhancing-work-wildfire-practitioners-social-science/>
- Champ, P.A., **Brenkert-Smith, H.**, Meldrum, J., Barth, C., Warziniack, T. 2017. Is the whole greater than the sum of its parts? Homeowner wildfire risk mitigation, community heterogeneity, and fire adaptedness. Final report. JFSP Project 14-2-01-31. [https://www.firescience.gov/projects/14-2-01-31/project/14-2-01-31\\_final\\_report.pdf](https://www.firescience.gov/projects/14-2-01-31/project/14-2-01-31_final_report.pdf)
- Meldrum, J., C. Barth, P. Champ, **H. Brenkert-Smith**, L. Falk, and T. Warziniack 2017. Insurance and wildfire risk: what do we know? *Fire Management Today*, 75(2).

- Brenkert-Smith, H.**, and the WiRē Team. 2017. Near misses and far-sightedness: Boulder fire is a reminder of the need for community collaborations. Invited commentary. <https://hazards.colorado.edu/article/near-misses-and-far-sightedness-boulder-fire-is-a-reminder-of-the-need-for-community-collaborations>, 24 March 2017.
- Meldrum, J.R.; Falk, L.C.; Gomez, J.; Barth, C.M.; **Brenkert-Smith, H.**, Warziniack, T.; Champ, P.A. 2017. Living with wildfire in Telluride Fire Protection District, Colorado. Res. Note RMRS-RN-75. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 30 p. [https://www.fs.fed.us/rm/pubs\\_series/rmrs/rn/rmrs\\_rm075.pdf](https://www.fs.fed.us/rm/pubs_series/rmrs/rn/rmrs_rm075.pdf)
- Toman, E., **Brenkert-Smith, H.**, Curtis, A., Rogers, M., Stidham, M. 2015. Final Report 12-2-01-59: Managing Multi-Functional Landscapes at the Interface of Public Forests and Private Land: Advancing Understanding through a Comparison of Experience in U.S. and Australia. Joint Fire Science Program. 15 p. [https://researchoutput.csu.edu.au/ws/portalfiles/portal/21103030/1000006261\\_published\\_report.pdf](https://researchoutput.csu.edu.au/ws/portalfiles/portal/21103030/1000006261_published_report.pdf)
- Toman, E., **Brenkert-Smith, H.**, Curtis, A., Rogers, M., Stidham, M. 2015. Guidebook to cognitive mapping with diverse stakeholders in natural resource management: Overview. Joint Fire Science Program. 6 p. [https://www.firescience.gov/projects/12-2-01-59/project/12-2-01-59\\_Toman\\_etal2015Guidebook\\_to\\_cognitive\\_mapping\\_overview.pdf](https://www.firescience.gov/projects/12-2-01-59/project/12-2-01-59_Toman_etal2015Guidebook_to_cognitive_mapping_overview.pdf)
- Toman, E., **Brenkert-Smith, H.**, Curtis, A., Rogers, M., Stidham, M. 2015. Guidebook to cognitive mapping with diverse stakeholders in natural resource management: Section II. Method 1: Using cognitive mapping to explore stakeholder perceptions of desired future conditions. Joint Fire Science Program. 28 p. [https://www.firescience.gov/projects/12-2-01-59/project/12-2-01-59\\_Toman\\_etal2015Guidebook\\_to\\_cognitive\\_mapping\\_Method\\_1.pdf](https://www.firescience.gov/projects/12-2-01-59/project/12-2-01-59_Toman_etal2015Guidebook_to_cognitive_mapping_Method_1.pdf)
- Brenkert-Smith, H.**, Stidham, M., Toman, E. 2015. Managing multi-functional landscapes at the interface of public forests and private land in western Boulder County: Project summary for study participants. Joint Fire Science Program. 24 p.
- Toman, E., **Brenkert-Smith, H.**, Stidham, M. 2015. Forest Restoration in Boulder County, Colorado, March 31, 2015: Workshop Summary. Joint Fire Science Program. 2 p.
- Toman, E., **Brenkert-Smith, H.**, Curtis, A., Rogers, M., Stidham, M. 2015. Guidebook to cognitive mapping with diverse stakeholders in natural resource management: Section III. Method 2: Fire management in a multi-functional landscape. Joint Fire Science Program. 5 p.
- Meldrum, James R.; Barth, Christopher, M.; Colter Falk, Lilia; **Brenkert-Smith, Hannah**; Warziniack, Travis; Champ, Patricia A. 2015. Living with wildfire in Delta County, Colorado: cross-community comparisons. Res. Note. RMRS-RN-67. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 33 p.
- Hines, S, **H. Brenkert-Smith**, P. Champ, L. Joyce, P. Robichaud, and S. Ryan-Burkett. 2014. Our relationship with a dynamic landscape: Understanding the 2013 Northern Colorado Flood. Science You Can Use Bulletin, Issue 10. Fort Collins, CO: Rocky Mountain Research Station. 15 p.
- Brenkert-Smith, H.** S. McCaffrey, M. Stidham. 2013. Pine Ridge Fire summary report. Res. Note NRS-171. Newtown Square, PA: USDA Forest Service, Northern Research Station. 12 p.
- McCaffrey, S., **Brenkert-Smith, H.**, and M. Stidham. 2013. Little Bear Fire Summary Report. Research Note. NRS-176. Newtown Square, PA: USDA Forest Service, Northern Research Station. 22 p.
- Meldrum, J.R., C.M. Barth, L.C.Falk, **H. Brenkert-Smith**, T. Warziniack, and P.A. Champ. 2013. Living with Wildfire in Log Hill Mesa, Colorado. RMRS-RN-66. USDA Forest Service, Rocky Mountain Research Station. 35p.
- Brenkert-Smith, H.**, P.A. Champ, and A. Telligman. 2013 Understanding Change: Wildfire in Boulder County, Colorado. Research Note. RMRS-RN-57. USDA Forest Service 47 p.
- Brenkert-Smith, H.**, P.A. Champ, and A. Telligman. 2013 Understanding Change: Wildfire in Larimer County, Colorado. Research Note. RMRS-RN-58. USDA Forest Service, Rocky Mountain Research Station. 47 p.

- Champ, P.A., **Brenkert-Smith, H.**, Flores, N. 2012. Living with Wildfire in Boulder County, Colorado 2007. Res. Note RMRS-RN-47. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 26 p.
- Champ, P.A., **Brenkert-Smith, H.**, Flores, N. 2012. Living with Wildfire in Larimer County, Colorado 2007. Res. Note RMRS-RN-48. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 26 p.
- Brenkert-Smith, H.** and P. Champ. 2011. Fourmile Canyon: Living with Wildfire. *Wildfire Management Today* 71(2).
- Wilhelmi, O. and **H. Brenkert-Smith.** 2010. Disaster Risk Assessment in Current and Future Climates. Understanding Risk: Innovation in Disaster Risk Assessment, Proceeds from the 2010 UR Forum, The World Bank, pp 1—13.
- Champ, P.A., N. Flores and **H. Brenkert.** 2010. Living with Wildfire in Colorado. Abstract in The '88 Fires: Yellowstone and Beyond Conference Proceedings. R.E. Masters, K.E.M. Galley and D.G. Despain (eds.). Tall Timbers Research Station, Miscellaneous Publication No. 16.
- Brooks, J., **H. Brenkert,** D. Williams, J. Serby. 2006. Integrating Social Science into Forestry in the Wildland/Urban Interface." *Wildfire Management Today* 66(2) 35-43.
- Brenkert, H.**, P. Champ and N. Flores. 2005. Mitigation of Wildfire Risk by Homeowners. Res. Note RMRS-RN-25WWW. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.

### **Research Grants and Fellowships**

#### *Underway:*

- 2023-2025 **Principal Investigator:** Using Social Data to Foster Community Engagement in High Risk Firesheds. With Rocky Mountain Research Station and Wildfire Research (WiRē) Center. USDA Forest Service Research & Development Bipartisan Infrastructure Law Wildfire Crisis Strategy Project Proposal (\$240,000).
- 2023-2024 **Principal Investigator:** Inclusion of manufactured home park residents in wildfire mitigation and preparedness in Lake County, Colorado. With Julia Goolsby (CU Boulder) and the Wildfire Research (WiRē) Center. Quick Response Research Award Program Special Call for Proposals: FEMA Region 8 (\$4,000).
- 2022-2025 **Co-Principal Investigator:** Collaborative Research: Prescribed burning decisions and risk-risk tradeoffs. NSF Decision Risk Management Sciences (DRMS); Chemical, Bioengineering, Environmental and Transport Systems (CBETS-Engineering); and Civil, Mechanical, and Manufacturing Innovation Division (CMMI): With Drs. Katherine Dickinson (CU Anschutz), Colleen Reid (CU Boulder), Michael Hannigan (CU Boulder), and Evan Coffey (CU Boulder) (\$776,260 to CU Boulder of \$1,199,546).
- 2022-2023 **Principal Investigator:** Advancing community wildfire risk reduction through state-wide partnership With Julia Goolsby, the Wildfire Research (WiRē) Center, and the Colorado State Forest Service Salida Field Office. University of Colorado Outreach Award, Office for Outreach and Engagement, CU-Boulder (\$25,000).
- 2021-2024 **Co-Principal Investigator:** Collaborative Research: NNA Research: Socio-ecological considerations for sustainAble Fuel treatments to Reduce wildfire Risk (SAFRR). Navigating the New Artic, NSF. With, Drs. Schmidt and Berman (UAA), Mack and Little (NAU), and Champ (USFS) (\$478,980 to CU Boulder of \$2,291,321).



- 2021-2026 **Investigator:** Wildfire Research (WiRē) Approach: Fire and Aviation Division of State and Private Forestry. USDA Forest Service (Y1: \$213,500; Y2: \$284,581; Y3: \$80,000).
- 2021-2022 **Principal Investigator:** Researcher-practitioner collaborations for rural community wildfire risk reduction. With the West Region Wildfire Council. University of Colorado Outreach Award, Office for Outreach and Engagement, CU-Boulder (\$9,000).

*Under review:*

*Completed:*

- 2017-2022 **Investigator:** Co-Management of Fire Risk Transmission. USDA Forest Service’s State and Private Forestry; with Drs. Daniel R. Williams and Patricia Champ, USFS Rocky Mtn. Research Station (and others) (Original funding (\$123,732) *supplemented* with funding additions of \$196,462 (2018), \$119,800 (2019), \$144,300 (2020); for a total of \$584,294).
- 2018-2021 **Principal Investigator:** Behavioral Nudges in a Wildfire Risk Context: Social Comparison and Community Type. National Science Foundation – Decision Risk Management Sciences: With Drs. James Meldrum, USGS, and Patricia Champ, USFS (\$389,185).
- 2019-2020 **Principal Investigator:** Fire Adapted Bailey: Launching an evidence-based approach. University of Colorado Outreach Award, Office for Outreach and Engagement, CU-Boulder (\$9,000).
- 2019-2020 **Recipient:** Wildfire as a social problem: Modeling intracommunity wildfire behavior. IBS Research Development Award 2019.
- 2018-2019 **Principal Investigator:** Enhancing wildfire outreach programs with social science. University of Colorado Impacts Grant, Office for Outreach and Engagement, CU-Boulder (\$5,532).
- 2017-2019 **Co-Principal Investigator:** Dynamic Risk Perception and Action in Response to Forest Insect Disturbance in North-Central Colorado. National Science Foundation, Decision and Risk Management Sciences; with Dr. Hua Qin, U. of Missouri and Jamie Vickery, CU. (\$184,899 to CU-Boulder of \$431,958).
- 2016-2019 **Co-Principal Investigator:** Defining “Resilient Landscapes” From Multiple Stakeholder Perspectives. Joint Fire Sciences Program; with Dr. Jody Jahn, CU (\$269,149).
- 2014-2018 **Co-Principal Investigator:** Living with Wildfire in Delta and San Miguel Counties, Colorado. National Fire Plan, USDA Forest Service, Rocky Mountain Research Station; with Drs. Patricia Champ, USFS and James Meldrum, USGS, (\$159,974; supplement to Living with Wildfire in Colorado project).
- 2015-2017 **Co-Principal Investigator:** Is the whole greater than the sum of its parts? Homeowner wildfire risk mitigation, community heterogeneity, and fire adaptedness. Joint Fire Science Program, New Science Initiative; with Dr. Patricia Champ, US Forest Service (\$255,378 to CU-Boulder of \$354,117)).
- 2013-2017 **Co-Principal Investigator:** Living with Wildfire in Colorado. National Fire Plan, USDA Forest Service, Rocky Mountain Research Station; with Drs. Patricia Champ, USFS and James Meldrum, CU (\$142,625).
- 2013-2016 **Principal Investigator:** Assessing the Effects of Risk Interdependency, Social Norms, and Costs on Homeowners’ wildfire Mitigation Decisions using Choice Experiments, National Science Foundation; with Nicholas Flores, CU; Katie Dickinson, Kathleen Miller, and Stephan Sain, NCAR (\$298,045).
- 2013-2015 **Co-Principal Investigator:** Managing multi-functional landscapes at the interface of public forests and private lands: advancing understanding through a comparison of experience in U.S. and Australia.

Joint Fire Sciences Program, USDA Forest Service; with Drs. Eric Toman, OSU; Allan Curtis, Charles Sturt University (\$197,495 (\$34,987 sub-award to CU-Boulder)).

- 2012-2014 **Consultant:** Quantifying the Characteristics and Investigating the Biogeoscientific and Societal Impacts of Extreme Wildland Fires in the United States. NASA; with Drs. Matt Carroll, Washington State Univ.; Troy Hall, Idaho U.; Travis Paveglio, U. of Montana (\$49,430 to CU-Boulder of \$1,221,176).
- 2011-2015 **Co-Principal Investigator:** Systematic Learning after a Wildfire: Development of a Post-Fire Research Framework and Protocol. USDA Forest Service, North Central station. People and their Environments: Social Science Supporting Natural Resource Management and Policy Program; with Drs. Sarah McCaffrey, USFS; Branda Nowell, NCSU; Toddi Steelman, U. of Saskatchewan (\$58,031).
- 2010-2015 **Principal Investigator:** Homeowner Vulnerability to Wildfire Risk in a Changing Climate. USDA Forest Service, Rocky Mountain Research Station. Human Dimensions Program; with Drs. Patricia Champ and Daniel R. Williams (\$325,028).
- 2009-2011 Advanced Study Program Postdoctoral Fellow. Research Applications Lab. National Center for Atmospheric Research.
- 2007 Christine Mirzayan Science and Technology Policy Fellowship. Committee on the Human Dimensions of Global Change. The National Academies of Science, January - March 2007, Washington, D.C.
- 2006 Conference Scholarship to attend the Geological Society of America's "Managing Drought and Water Scarcity," 18-20 September 2006, Longmont, CO.
- 2005-2008 Environmental Protection Agency STAR (Science to Achieve Results) Fellow (\$111,000).
- 2005 The Role of Place Meaning and Attachment in Fire Mitigation Decision Making; USDA/US Forest Service: North Central Research Station (\$23,042).
- 2005 Brown-Ricketts-Udick Grant; American Association of University Women, Boulder Branch.
- 2004-2005 The Effect of Proximity to Wildfire Risk on Mitigation Efforts by Homeowners at the Wildland-Urban Interface. Front Range Fuels Treatment Partnership and USDA/US Forest Service: Rocky Mountain Research Station.
- 2003-2004 Institutions and Incentives for Mitigating Wildfire Risks; Front Range Fuels Treatment Program and USDA/US Forest Service: Rocky Mountain Research Station.
- Submitted but not funded:*
- 2023-2024 *Declined:* Homeowners as partners in wildfire risk reduction in Boulder County. With Boulder County Wildfire Partners and the Wildfire Research (WiRē) Center. University of Colorado Outreach Award, Office for Outreach and Engagement, CU-Boulder (\$24,000).
- 2022-2025 *Declined:* Community resilience before and after wildfire. Joint Fire Sciences Program: With Drs. Patricia Champ (USFS) and James Meldrum (USGS), Chris Barth (BLM), The WiRē Center (\$490,960).
- 2021-2024 *Declined:* NSF- DBE: Wildfire as a social problem: Modeling intracommunity wildfire behavior. Hannah Brenkert-Smith (CU Boulder, WiRē Team), Co-PI Hussam Mahmoud (CSU), Akshot Chulahwat (CSU), Patricia Champ (USDA Forest Service, WiRē Team), James Meldrum (United States Geological Survey, WiRē Team), Christopher Barth (Bureau of Land Management, WiRē Team) (\$921,227: \$560,268 to CU and \$360,959 to CSU)
- 2020-2023 *Declined:* CNH2-L: FAST FIRE: Redefining U.S. wildfire risk based on unprecedented measures of wildfire spread rates and the proliferation of vulnerable settlements. Balch et al. (\$1,599,935).

- 2020-2021 *Declined:* Building Community Capacity to respond to wildfire (in Teton County, WY). University of Colorado Outreach Grant, Office for Outreach and Engagement, CU-Boulder (\$8984)
- 2020-2023 *Declined:* Linking wildfire risk transmission to an intracommunity wildfire behavior model along the boundary of the Teton to Snake Fuels Management project. USDA Forest Service Research and Development (CU: \$225,000 of \$965,260).
- 2018-2022 *Declined:* CNH-L: Human settlements in flammable U.S. landscapes: How will people coexist with wildfire? Senior Personnel, with Leyk, Stefan (PI), Balch, Jennifer (Co-PI), Gutmann, Myron (Co-PI), Connor, Dylan; Mietkiewicz, Nathan; Joseph, Maxwell; McGlinchy, Joe (Senior Personnel) (\$1,599,600).
- 2017-2020 *Recommended:* Co-Management for Wildfire Adaptation: Wildfire expectations and the relationship to risk reduction. Joint Fire Sciences Program, Co-Principal Investigator with Drs. Patricia Champ (USFS) and James Meldrum (USGS), (\$256,261 with sub-award of \$192,270 to CU)
- 2017-2020 *Declined:* Leveraging social norms to overcome free riding in interdependent wildfire risk decisions: Experiments in lab and field settings. National Science Foundation, Decision and Risk Management Sciences, Co-Principal Investigator with Drs. Katie Dickinson and Nick Flores, CU (\$416,033).
- 2016-2018 *Declined:* Scenario Planning as a Tool for Integrating Biophysical and Social Dimensions of Wildfire Risk Management in Wildland-Urban Interface Communities. National Fire Plan, Co-Principal Investigator, with Drs. Daniel R. Williams USFS, Alan Ager USFS, and Daniel Murphy UC (\$323,930).
- 2016- 2020 *Declined:* The Effect of Nudges in a Wildfire Risk Context: Comparing Community Type. National Science Foundation, IBSS, Principal Investigator, with Drs. James Meldrum CU and Patricia Champ USFS (\$613,316).
- 2015-2018 *Declined:* Flood Follows Fire: Exploring The Effect of Near Misses, Direct Impacts, And Cumulative Effects After Two Major Disasters. National Science Foundation, Decision and Risk Management Sciences, Principal Investigator with Drs. Liesel Ritchie (CU) and Brokopp-Binder (\$714,626).
- 2014-2017 *Declined:* Flood Follows Fire: Exploring The Effect of Near Misses, Direct Impacts, And Cumulative Effects After Two Major Disasters. National Science Foundation, Decision and Risk Management Sciences, Principal Investigator with Drs. Liesel Ritchie (CU) and Brokopp-Binder (\$455,993).
- 2012-2014 *Declined:* Playing with Fire: Experimental Games Assessing the Effect of Risk Interdependency, Social Norms, and Costs on Homeowners' Wildfire Mitigation Decisions. National Science Foundation, Decision and Risk Management Sciences, Co-Principal Investigator, with Drs. Flores (CU) and Dickinson (NCAR) (\$299,058).

## Service

- **Climate Science Advisory Board (2023 – 2025) NIH Mountain West ACE-CH Hub: Climate Change Engagement Platform to Support Resilient Rural and Urban Communities.** PIs Drs. K. Dickinson and K. James. The overall objective of this community engaged effort in two communities (urban-Denver West and rural- San Luis Valley) is to collaborate with community members through advisory boards determined the state of climate stressor (air quality, drought, and wildfire) adaptation and preparedness including resources, established programs, and resilience across multiple sectors (occupation, public health, medical) and multiple systems (household, neighborhood, school, community).
- **Board of Directors** for the **Institute of Behavioral Science** (2020 – 2022)
- **Board of Directors** for the **Wildfire Research (WiRē) Center** – (2019 – present) WiRē is a collaboration between researchers and practitioners who seek to support evidence-based wildfire programs that engage communities and residents in activities, education, and the pursuit of practices and policies that encourage adaptation to wildfire in wildland-urban interface communities. This researcher-practitioner partnership supports the systematic collection and analysis of biophysical and social data in fire-prone communities to tailor programs and associated communications specific to the local context. The data inform and become part

of community programs to facilitate fire adaptation, based on the unique characteristics and strengths of communities. The work is in-depth, and the community is front and center. Throughout the process, the researchers and practitioners join together to define the research questions, delineate the parameters of inquiry, and craft the research approach. The practitioners take lead responsibility for collecting the community data and the researchers take the lead on data analyses. Together, the team then develops locally relevant communication products that are most useful for the practitioners. In other words, we engage in the co-production of knowledge, rather than one-way translations. The approach is adaptive and continually being updated as the team learns. See: [www.wildfiresearchcenter.org](http://www.wildfiresearchcenter.org)

- **Advisory Board member** (2014 – present) for the **Boulder Wildfire Partners Program**. This county-level wildfire program is funded by the Colorado Department of Natural Resources and the Federal Emergency Management Administration and is engaged in innovative approaches to building private-public partnerships to reduce wildfire risk in the wildland-urban interface. As a scientist on the advisory board, I bring relevant research findings to the board for consideration as the program refines its approach and seeks to expand its efforts.
- **Advisory Board member (2015 – present)** for the **Global Paleofire Working Group** (GPWG). The GPWG is an international group of researchers working to create a global database of paleofire records. The data are used to reconstruct changes in fire history and its relationship to changing vegetation and fuels, human activities (e.g. spread of agriculture, fire suppression), and climate on long time scales but continuing up through present day. The effort is intended to support managers' needs as they grapple with resource planning and management decisions.

### Synergistic Activities

- **Sense-Making and Storytelling around Proactive Wildfire Management**. PI: Dr. Megan Matonis (USFS Science Application & Communication), Co-Investigators: Linda Joyce and Jan Engert (Science Application & Communication, Patricia Champ, David Calkin, and Matthew Thompson (Human Dimensions), Elizabeth Reinhardt (Forest Service Fire and Aviation Management), and Cathy Dowd (Okanogan-Wenatchee National Forest), and the WiRē Team (see [www.wildfireresearchcenter.org](http://www.wildfireresearchcenter.org)).
  - In this effort, the WiRē Team is collaborating with a graphic artist to use sense-making workshops and storytelling through the production of three forthcoming animated whiteboard videos to help managers and scientists co-produce knowledge about proactive fire management.
- **Living with Wildfire in Colorado** project. Primary actor in data collection and analysis for wildfire survey examining mitigation and preparedness among property owners in fire-prone areas of Boulder and Larimer Counties, Colorado. The study collected baseline data in 2007 and was repeated in 2010 just after the Fourmile Canyon Fire. In 2014, this study expanded to the Western Slope of Colorado, building collaborative relationships with wildfire and land managers in Ouray, Delta, Montrose, and Gunnison Counties and is funded by the Joint Fire Sciences Program through 2017.
- Advanced Study Program **Postdoctoral Fellow** at the National Center for Atmospheric Research in the Climate Science and Applications Program where I participated in collaborative research on household coping and preparedness for extreme heat in Phoenix, AZ and continued my research on social interactions, disaster experience, and hazard mitigation behavior (2009-2011).
- **Selected participant** in NSF Dissertations Initiative for the Advancement of Climate Change Research (DISSCRS) 2010. DISSCRS fosters interdisciplinary research on climate change assessment and impacts.
- **Invited participant** in the **Forest Community Vulnerability and Adaptive Capacity in the Context of Climate Change** workshop (November 7-10, 2011, Lubrecht Experimental Forest, Montana). This workshop brought together researchers from the social and biophysical sciences to engage in meetings and small group discussions to explore research needs to foster understanding among managers and planners of vulnerability and adaptive capacity in forest communities. The workshop resulted in the following manager-targeted publication:

P.A. Fischer, Paveglio, T., Carroll, M., Murphy, D., **Brenkert-Smith, H.** 2013. Assessing social vulnerability to climate change in rural communities near public lands: Elements of framework for managers and planners. *Journal of Forestry* 111(5): 357-365.

- **Young Scholar’s Network Workshop participant** sponsored by the AIMES (Analysis, Integration, and Modeling of the Earth System): *Historical Ecology: Integrating Biophysical, Historical, and Ethnographic Evidence at the Landscape Scale*, Uxeau, Burgundy, France (June-July 2009) which yielded the following publication:  
Petty, A., C. Isendahl, **H. Brenkert-Smith**, D.J. Goldstein, T.C. Kumasi, A. Rahman, and J.M. Rhemtulla. 2015 Applying historical ecology to natural resource management institutions: lessons from two case studies of landscape fire management. *Global Environmental Change* 31:1-10.
- Christine Mirzayan **Science and Technology Policy Fellow**. Committee on the Human Dimensions of Climate Change. National Academy of Sciences. During my fellowship I contributed to:  
National Research Council. (2008). *Public participation in environmental assessment and decision making*. National Academies Press.

### **Honors and Awards**

- 2023 Rocky Mountain Research Station’s 2022 Award for Science Delivery. Awarded to the Wildfire Research (WiRē) Center
- 2010 Competitively selected participant: DISCCRS V (DISsertations initiative for the advancement of Climate Change ReSearch). March 13-20, 2010, Arizona. National Science Foundation.
- 2005 Winner of the Rural Sociological Society’s Natural Resource Research Group graduate student paper competition for “The Place of Fire”
- 2005 Winner of the Annual Hazards and Disasters Paper Competition for Graduate Students for “The Place of Fire.” Natural Hazards Center. University of Colorado
- 2002 Highest Honors, Research Methods Ph.D. Comprehensive Exam. Department of Sociology, University of Colorado
- 1999 Outstanding Graduate Student Achievement Award. Department of Women’s Studies, San Francisco State University

### **Presentations (2010 - present)**

- Brenkert-Smith, H.**, and Barth, C. 2022. Living with Wildfire in Kenai Peninsula Borough. Kenai Peninsula Borough All Hands All Lands, November 9, 2022.
- Brenkert-Smith, H.** 2021. Can humans live with wildfire? Pathways to wildfire adaptation through evidence-based approaches. CU on the Weekend.
- Brenkert-Smith, H.**, and Barth, C. 2020. Understanding communities to enable community resilience. Wildfire Coordination Group, National Silver Jackets Program National Flood Risk Management Program.
- Brenkert-Smith, H.** and Barth, C. 2020. The Quiet Majority: Understanding Communities to Make Mitigation Work. CU Boulder Natural Hazards Center and the Federal Emergency Management Agency webinar series: Making Mitigation Work. <https://hazards.colorado.edu/training/webinars/the-quiet-majority-understanding-communities-to-make-mitigation-work>
- Essen, M., D.R. Williams, M. Nielsen-Pincus, P. Champ, C. Evers, B. Gray, C. Edgeley, T. Paveglio, L. Yung, C. Wyborn, **H. Brenkert-Smith**, B.A. Miller, D. Jacobs, J. Riley, A. Ager, M. Carroll and M. Billings. 2019. Approaches to Cross-Boundary Wildfire Risk Governance. 8th International Fire Ecology and Management Congress, Tucson, Arizona.
- Brenkert-Smith, H.** 2019. The WiRē Team: Collaborating with practitioners in support of evidence-based programs. University of Colorado - Institute of Behavioral Science Seminar Series, Boulder, CO.
- Champ, P., **Brenkert-Smith, H.**, Donovan, C., and Paveglio, T. 2019. The Wildfire Research (WiRē) Team: A long-running, research-practitioner collaboration centered around community-specific data. Teton Area Wildfire Protection Coalition. Jackson, WY.

- Champ, P., and **Brenkert-Smith, H.** 2019. WiRē Preliminary Results for Chelan County FD1. Co-Management of Fire Risk Transmission webinar. 13 March 2019.
- Champ, P., Meldrum, J., Gomez, J., Falk, L., **Brenkert-Smith, H.**, Barth, C. 2019. Nudging toward information-seeking about wildfire risks. Association of Environmental and Resource Economists Summer Conference, Lake Tahoe, NV, 30 May 2019.
- Brenkert-Smith, H.** 2018. Connecting during a Disaster. CableLabs Innovation Bootcamp. CableLabs, Louisville, CO, 25 September 2018.
- Brenkert-Smith, H.** 2018. Mitigation Matters: Grassroots to National Efforts. 43<sup>rd</sup> Annual Natural Hazards Research and Applications Workshop, Broomfield, CO, 8-12 July, 2018.
- Vickery, J., **H. Brenkert-Smith**, and H. Qin. Dynamic Risk Perception and Action in Response to Forest Insect Disturbance in North-Central Colorado: Qualitative Findings. Poster Session at the Natural Hazards Workshop, July 2018 in Broomfield, Colorado.
- Vickery, J., **H. Brenkert-Smith**, and H. Qin. Changing Risk Perception and Action in Response to Forest Insect Disturbance. International Symposium on Society and Resource Management, June 2018 in Snowbird, Utah.
- Vickery, J., H. Qin, and **H. Brenkert-Smith**. Dynamic Risk Perception and Action in Response to Forest Insect Disturbance in North-Central Colorado. Institute of Behavioral Science Research Symposium, April 2018 in Boulder, Colorado.
- Barth, C., **Brenkert-Smith, H.**, Gomez, J., and Meldrum, J. 2018. The Wildfire Research (WiRē) Team An Innovative Approach to Fire Adaptation. Fire Adapted Communities Learning Network Webinar, 20 March.
- Barth, C., **H. Brenkert-Smith**, J. Meldrum, and J. Gomez. 2017. Wildfire Research (WiRē): Uniting Research and Practice to Address “Last-Mile” Wildfire Problems. [panel presentation] 42<sup>nd</sup> Annual Natural Hazards Research and Applications Workshop, Broomfield, CO, 9-12 July, 2017.
- Brenkert-Smith, H.**, and P. Champ. 2017. Uniting research and practice to promote fire adaptation: The Wildfire Research (WiRē) Team. National Cohesive Strategy Workshop, Reno, NV, 26 April 2017.
- Brenkert-Smith, H.**, C. Barth, P. Champ, and J. Meldrum. 2017. Where you stand depends on where you sit: Qualitative inquiry into notions of wildfire adaptation. Colorado Wildland Fire Conference, Pueblo, CO, 19-21 April 2017.
- Brenkert-Smith, H.** and P. Champ. 2017. The Wildfire Research (Wirē) Team: Infusing social science into wildfire education programs through collaboration and systematic data collection. Fire Adapted Colorado meeting – Fort Collins, CO, 1 February 2017.
- Brenkert-Smith, H.** and P. Champ. 2016. The Wildfire Research (Wirē) Team: Infusing social science into wildfire education programs through collaboration and systematic data collection. Presentation to State Forest Service Leadership Team. 20 December 2016, Fort Collins, Colorado.
- Barth, C., **H. Brenkert-Smith**, L. Falk. 2016. Living with Wildfire: Understanding social science research and wildfire risk mitigation in Southwest Colorado. [panel presentation] 15 November 2016, Durango, CO.
- Brenkert-Smith, H.**, C. Barth, P. Champ. L. Falk., J. Meldrum. 2016. Infusing social science into wildfire education programs through collaboration and systematic data collection. [panel presentation] Interactions of Society and the Environment Seminar Series, November 2, 2016, Fort Collins, CO.
- Brenkert-Smith, H.**, Barth, C., Champ, P., Falk, L., Froemke, P., Gomez, J., Meldrum, J., Warziniack, T., Wilson, P. 2016. The Wildfire Research (WiRē) Team: Infusing social science into programs through collaboration and systematic data collection. Poster session, July 10-14, 2016, Broomfield, CO.
- Brenkert-Smith, H.** with P. Champ, T. Warziniack, J. Meldrum, C. Barth, and L. Falk. 2016. Collaborative Wildfire Research: Homeowner Property Conditions, Community Comparisons, and Using Research to Improve Wildfire Programs. Colorado Office of Emergency Management Conference. 9 March 2016, Colorado Springs, CO
- Brenkert-Smith, H.**, K. Dickinson, and N. Flores. 2016. Assessing the effects of Risk Interdependency, Social Norms, and Costs in a Wildfire Context. Society of Risk Analysis, poster presentation December 7–10, 2015, Washington, D.C.
- Brenkert-Smith, H.**, C. Barth, J. Meldrum, P. Champ, T. Warziniack. 2015. Is the whole greater than the sum of its parts? Homeowner wildfire risk mitigation, community heterogeneity, and fire adaptedness. Colorado Wildfire Conference. 24-26 September 2015, Snowmass CO.

- Brenkert-Smith, H., J. Meldrum, P. Champ, and T. Warzniack.** 2015. Is the whole greater than the sum of its Parts? Homeowner wildfire risk mitigation, community heterogeneity, and fire adaptedness. Human Dimensions of Wildland Fire Conference. April 20-24 2015, Boise, ID.
- Meldrum, J., P. Champ, T. Warziniack, and H. Brenkert-Smith. 2014. Why do homeowners underestimate wildfire risk? [presented by J. Meldrum]. *89<sup>th</sup> Western Economic Association International (WEAI) Annual Conference*. Jun 27-Jul 1, 2014, Denver, CO.
- Meldrum, J., P. Champ, T. Warziniack, and H. Brenkert-Smith. 2014. The risk perception gap: Insight from comparison of wildfire risk evaluations for Log Hill Mesa, Colorado. [presented by J. Meldrum]. *Western Agricultural Economics Association (WAEA) Annual Meeting*. Jun 22-24, 2014, Colorado Springs, CO.
- Meldrum, J., H. Brenkert-Smith, P. Champ, T. Warziniack, C. Barth, and L. Falk Living with Wildfire in Colorado: Interdisciplinary research for more effective homeowner wildfire risk mitigation program. [presented by J. Meldrum]. *Institute of Behavioral Science Research Symposium*. Poster session, Apr 16, 2014, Boulder, CO.
- Champ, P., T. Warziniack, J. Meldrum, H. Brenkert-Smith, C. Barth, and L.C. Falk. 2013. Living with Wildfire in Log Hill Mesa: Behavioral Responses to Wildfire Risk. [presented by P. Champ and T. Warziniack]. *Interactions of Society and the Environment Seminar Series*. Nov 21, 2013, Ft. Collins, CO.
- Barth, C., P. Champ, T. Warziniack, J. Meldrum, and **H. Brenkert-Smith**. 2013. Identifying wildfire risk: Pairing homeowner and expert risk assessment [Panel presentation]. *National Fire Protection Association's 2013 Backyards & Beyond Wildland Fire Education Conference*. Nov 14-16, 2013, Salt Lake City, UT.
- Meldrum, J., P. Champ, T. Warziniack, H. Brenkert-Smith, C. Barth, and L.C. Falk Understanding and encouraging wildfire risk mitigation: Survey evidence on cost shared funding, risk perceptions, and more. [presented by J. Meldrum]. *CU Environmental and Resource Economics Workshop 2013*. Oct 4-5, 2013, Vail, CO.
- Brenkert-Smith, H.** 2013 Post-wildfire Research Protocol. Panelist with S. McCaffrey, M. Green, B. Mackie, and D. Gill. Natural Hazards Workshop. June 4-8: Broomfield, CO.
- Carroll, M., T. Paveglio, and **H. Brenkert-Smith**. 2013. Firewise for Whom? International Symposium on Society and Resource Management. July 13-16: Estes Park, CO.
- Champ, P. and **H. Brenkert-Smith**. 2013. Is seeing believing? Wildfire risk perceptions after a catastrophic fire. W3133 Conference: Benefits and Costs of Natural Resources Policies Affecting Ecosystem Services on Public and Private Lands. February 28: Coeur d'Alene, ID.
- Champ, P. and **H. Brenkert-Smith**. 2013. Living with Wildfire in Colorado. Community at Work radio show. KRFC.
- Champ, P. and **H. Brenkert-Smith**. 2012. Colorado Working Together 2012 Forest Summit. 10/12/12 Colorado State University.
- Champ, P. and **H. Brenkert-Smith**. 2012. Homeowner Mitigation and Preparedness. Front Range Fuels Treatment Partnership – Implementers Meeting 3/7/2012.
- Champ, P., K. Dickinson, **H. Brenkert-Smith**, and N. Flores. 2011 The Role of Social Interactions and Risk Perceptions in Homeowners' Wildfire Risk Mitigation Behaviors. Association of Environmental Resource Economics Conference.
- Brenkert-Smith, H.** 2011. Considering Vulnerability and Adaptive Capacity in fire-prone communities along Colorado's Front Range. Invited Participant: Forest Community Vulnerability and Adaptive Capacity in the face of Climate Change Workshop. 8 November 2011. Lubrecht Experimental Forest, Missoula, MT.
- Champ, P., **H. Brenkert-Smith**, and J. Webster. 2011. Boulder County, Homeowner Mitigation and Preparedness, and the Fourmile Canyon Fire. National Fire Protection Association Conference: Backyards and Beyond. 27 October 2011, Denver, CO.
- Brenkert-Smith, H., J. Sutton, and J. Rozdilsky.** 2011. Invited Panelist: Resilience at Different Scales and in Different Regions (moderator, Bob O'Connor, NSF), National Hazards Workshop, 11 July 2011, Broomfield, CO.
- Brenkert-Smith, H.** 2011. Climate-adapted hazard research and management. International Symposium on Society and Resource Management. 5 June 2011. Madison, WI: University of Wisconsin.
- Brenkert-Smith, H.** 2011. Placing hazards decisions in context. Hazards, Disasters, & Society. 3 March 2011, University of Colorado.
- Brenkert-Smith, H., M. Hayden, and O. Wilhelmi.** 2011. Phoenix heat: A pilot study on urban heat hazards coping and climate adaptation. Interactions of Society and the Environment Seminar Series. 3 February 2011. USGS Fort Collins Science Center.

- Brenkert-Smith, H.** 2010. Four Mile Fire: A Follow-up Study. Advanced Study Program Presentation. National Center for Atmospheric Research. October 2010. Boulder, CO.
- Brenkert-Smith, H.** 2010. Informal social interactions and community context. Fire Social Science Meeting, Western Governors' Association. 9-10 June 2010, Denver, Colorado
- O. Wilhelmi and **Brenkert-Smith, H.** 2010. Panel Session co-Leads: Innovation in Disaster Risk Assessment in Current and Future Climates. Understanding Risk Conference, World Bank, 1-3 June 2010, Washington D.C.
- Brenkert-Smith, H.** and P. Champ, and N. Flores. 2010. Living with Wildfire in Colorado: A Survey of Two Front Range Counties. 2<sup>nd</sup> Human Dimensions of Wildland Fire Conference. International Association of Wildland Fire. 26-29 April 2010, San Antonio, TX.
- Brenkert-Smith, H.** 2010. Bridging Hazards Mitigation and Climate Adaptation Research. DISSCRS (DISSertations initiative for the advancement of Climate Change ReSearch). National Science Foundation. 13-20 March 2010, Arizona.
- Brenkert-Smith, H.,** M. Hayden, and O. Wilhelmi. 2010. Urban Heat Hazards and Climate Adaptation: Phoenix Case Study. Advanced Study Program Presentation. National Center for Atmospheric Research. February 2010, Boulder, CO.

### Areas of Specialization

Actionable research, Community-engaged research, Co-production of science, Environmental Sociology, Social dimensions of risk, Hazard mitigation, Place attachment & meaning, Research methods, Gender

### Professional Service

Manuscript Reviewing Service

<i>Disasters</i>	2016
<i>Ecology &amp; Society</i>	2021, 2020
<i>Environmental Management</i>	2015, 2014, 2013
<i>Environmental Science &amp; Policy</i>	2020
<i>Fire</i>	2020, 2019
<i>Forests</i>	2020, 2014
<i>Int. J. of Disaster Risk Reduction</i>	2022
<i>Int. J. of Wildland Fire</i>	2018, 2017, 2016, 2014, 2011
<i>Journal of Environmental Psych</i>	2020
<i>Journal of Forestry</i>	2016, 2014, 2012, 2011
<i>Journal of Risk Research</i>	2016
<i>Landscape &amp; Urban Planning</i>	2020
<i>Natural Hazards Review</i>	2015, 2014, 2011 (Guest Editor)
<i>Political Geography</i>	2018, 2017
<i>Risk Analysis</i>	2018, 2017, 2016
<i>Risk Research</i>	2016
<i>Society &amp; Natural Resources</i>	2019, 2018, 2017, 2016, 2015, 2014, 2012, 2011
<i>U.S. Forest Service</i>	2014
<i>Western Economics Forum</i>	2023
<i>WIRE Climate Change</i>	2017

Proposal Review Service

*National Science Foundation* 2021, 2019, 2015, 2014

### Committee and Community Service

- Wildfire Research Center – Board of Directors, 2019 – present
- Boulder County Wildfire Partners – Advisory Committee, 2014 – present
- Institute of Behavioral Science – Board of Directors, 2020 – 2022
- Thompson Lecture Series – Organizing committee member, NCAR 2009 – 2011



Advanced Study Program Director Search Committee – Cohort representative, NCAR 2010  
Early Career Scientists Assembly – Junior Faculty Forum Committee member, 2010. “Climate and Water:  
Advancing adaptation science and strategies for water-resource vulnerability from climate variability  
and change”

**Student Advising Service**

Postdoctoral mentor

Hilary Byerly CU IBS (June 2019 – 2022)  
Jamie Vickery CU IBS (Sept 2017 – 2020)  
James Meldrum CU IBS (2012 – 2016)

Dissertation Committee Member

Amy Telligman, CU Environmental Studies (2012 – 2013)

MA/MS Thesis Committee Member

Natalie Bennett, CU Environmental Studies (2021 – 2022)

Graduate student mentor

Christine Dimke CSU Economics (2019 – present)  
Greg Madonia CU Economics (2017 – 2018)  
Dana Pauzaukie NCAR-SOARS (Significant Opportunities in Atmospheric Research and Science) (2010)

Undergraduate student mentor

Samantha Johnston (2023-present)  
Lena Miller (2023-present)  
Zoe Boiarsky CU (2019 – 2020)  
Elsa Roeber CU Engineering (2018 – 2019)  
Brianna Champ (2011 – 2014)