

CURRICULUM VITAE

January 2018

Hannah Brenkert-Smith, Ph.D.

Research Associate
Environment & Society Program
Institute of Behavioral Science
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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

PROFESSIONAL EXPERIENCE

Research Associate Institute of Behavioral Science - Environment & Society Program
January 2011 – present University of Colorado – Boulder

Postdoctoral Fellow National Center for Atmospheric Research
January 2009- January 2011 Advanced Study Program
Integrated Science Program: Research Applications Lab

Science Policy Fellow National Academies of Science, Washington, D.C.
Winter 2007 Christine Mirzayan Science and Technology Policy Fellowship
Committee on the Human Dimensions of Global Change

EPA STAR Fellow U.S. Environmental Protection Agency
September 2005 – August 2008 STAR (Science to Achieve Results) Fellowship
Dissertation Project: Wildfire Risk Decision-Making in the Wildland-Urban Interface

Graduate Research Assistant
 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

Graduate Research Assistant
 May 2003 - May 2004
 Institute of Behavioral Science; Environment and Behavior
 University of Colorado, Boulder, CO
 Project: Institutions and Incentives for Mitigating Wildfire Risks

Graduate Teaching Assistant
 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

Peer Reviewed Publications

- Brenkert-Smith, H.**, Dickinson, K. & Flores, N. 2018. Relevant recruiting for online survey participation. *SAGE Research Methods Cases*. 10.4135/9781526438027.
- 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://www.ecologyandsociety.org/vol22/iss3/art7/>
- Schoennagel, T., Balk, 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.
- Champ, P.A. and **H. Brenkert-Smith**. 2016. Is Seeing Believing? Wildfire risk perceptions after a catastrophic fire. *Risk Analysis* 36(4): 816-830.
- Brenkert-Smith, H.**, J. Meldrum, P.A. Champ. 2015. Climate change beliefs and hazard mitigation behaviors: Homeowners and wildfire risk. *Environmental Hazards* 14(4): 341-360.
- Paveglio, T., **H. Brenkert-Smith**, T. Hall, and A. Smith. 2015. Understanding social impact from wildfires: A means for assessment across landscapes. *International Journal of Wildland Fire* 24(2): 212-224.
- 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.
- 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.
- 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.
- 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.
- Meldrum, J., P.A. Champ, T. Warziniack, **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 rural communities near public lands: Elements of framework for 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.
- 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.
- Brenkert-Smith, H.**, P. Champ, and N. Flores. 2006. Qualitative Insights into Wildfire Mitigation. *Society and Natural Resources* 19(8): 759-768.

Manuscripts under Review (titles altered to preserve anonymity)

- Champ, P., **Brenkert-Smith, H.**, Meldrum, J. Barth, C., Falk, L., Gomez, J., and Warziniack, T. Risk aversion and wildfire risk. *Land Economics* (2nd revise & resubmit).
- Meldrum, J., Champ, P. and **Brenkert-Smith, H.**, Falk, L.C., and Barth, C. Wildfire and Social complexity. *Society and Natural Resources* (2nd revise & resubmit).
- Dickinson, K.L., **H. Brenkert-Smith**, G. Madonia, and N. Flores. Wildfire mitigation: A choice experiment. *Journal of Urban Economics* (review 1).
- Warziniack, T., P. Champ, J. Meldrum, **H. Brenkert-Smith**, C. Barth, and L.C. Falk. Spatial spillover effects in wildfire mitigation. *Env. & Resource Economics* (review 1)

Manuscripts in Preparation

- Brenkert-Smith, H.**, Dickinson, K., and Flores, N. Insurance Sticks and Carrots: Do they work to spur wildfire mitigation?
- Brenkert-Smith, H.**, Meldrum, J., Champ, P., and Barth, C. Finding the middle way to fire adaptation: The centrality of the regional perspective.
- Meldrum, J., **Brenkert-Smith, H.**, Champ, P., Barth, C., Falk L., and Gomez, J. Whose definition of risk? Comparing wildfire risk maps for a wildland-urban interface community in southwest CO
- Meldrum, J., **Brenkert-Smith, H.**, Madonia, G., Champ, P., Barth, C., Falk L., and Gomez, J. Nudging wildland-urban interface residents with local data.
- Meldrum, J., **Brenkert-Smith, H.**, Champ, P., Barth, C., Falk L., Gomez, J., and Wilson, P. Social capital and property conditions across a fire-prone landscape.
- Champ, P., Meldrum, J., **Brenkert-Smith, H.**, Barth, C., Falk L., Gomez, J., and Wilson, P. Wildfire response and loss expectations in fire-prone communities.

Professional or Technical publications

- McCaffrey, S., **H. Brenkert-Smith**, M. Stidham. Powerhouse Fire Report. Research Note. USFS (in review).
- Stidham, M., **H. Brenkert-Smith**, S. McCaffrey. Doce Fire Report. Research Note. USFS (in review).
- 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
- 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, James R.; Falk, Lilia C.; Gomez, Jamie; Barth, Christopher M.; Brenkert-Smith, Hannah; Warziniack, Travis; Champ, Patricia 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.
- 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.
- 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.
- 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.
- 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:

- 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. (\$431,958 (\$184,899 sub-award to CU-Boulder)).
- 2017-2018 **Investigator:** Co-Management of Fire Risk Transmission. USDA Forest Service's State and Private Forestry; with Drs. Daniel R. Williams, Patricia Champ, and Sarah McCaffrey, USFS Rocky Mtn. Research Station (and others) (\$119,945).
- 2016-2018 **Co-PI:** Defining "Resilient Landscapes" From Multiple Stakeholder Perspectives. Joint Fire Sciences Program; with Dr. Jody Jahn, CU (\$269,149).
- 2014-2019 **Co-PI:** 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).

In review:

- 2018-2021 NSF – DRMS: Behavioral Nudges in a Wildfire Risk Context: Social Comparison and Community Type. Principal Investigator, with Drs. James Meldrum, USGS, and Patricia Champ, USFS (\$389,185)
- 2018-2022 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).

Completed:

- 2015-2017 **Co-PI:** 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 (\$354,117 (\$255,378 sub-award to CU-Boulder)).
- 2013-2017 **Co-PI:** Living with Wildfire in Colorado. National Fire Plan, USDA Forest Service, Rocky Mountain Research Station; with Drs. Patty 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-PI:** 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 (\$1,221,176 (\$49,430 sub-award to CU-Boulder).
- 2011-2015 **Co-PI:** 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:

- 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).

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).
 - 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.

Service

- **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.
- **Wildfire Research (WiRe) team** – founding member – WiRe 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

Honors and Awards

- 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)

- C. Barth, **H. Brenkert-Smith**, J. Meldrum, and J. Gomez. 2017. Wildfire Research (WiRē): Uniting Research and Practice to Address “Last-Mile” Wildfire Problems. [panel presentation] 42nd 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. Warziniack.** 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]. *89th 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. 2nd 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

Environmental Sociology
 Social Dimensions of Risk
 Place Attachment & Meaning
 Research Methods
 Gender

Professional Service

Manuscript Reviewing Service

<i>Disasters</i>	2016
<i>Environmental Management</i>	2015, 2014, 2013
<i>Forests</i>	2014
<i>International Journal of Wildland Fire</i>	2017, 2016, 2014, 2011
<i>Journal of Forestry</i>	2016, 2014, 2012, 2011
<i>Journal of Risk Research</i>	2016
<i>Natural Hazards Review</i>	2015, 2014, 2011 (Guest Editor)
<i>Political Geography</i>	2018
<i>Risk Analysis</i>	2017, 2016
<i>Risk Research</i>	2016
<i>Society and Natural Resources</i>	2017, 2016, 2015, 2014, 2012, 2011
<i>U.S. Forest Service</i>	2014
<i>WIRE Climate Change</i>	2017

Proposal Review Service

<i>National Science Foundation</i>	2015, 2014
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Committee and Community Service

Wildfire Partners Advisory Committee – Boulder County, 2014 - present
 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

Jamie Vickery (Sept 2017 - present)

James Meldrum (2012 - 2016)

Dissertation Committee Member

Amy Telligman, Environmental Studies (2012 – 2013)

Graduate student mentor

SOARS (Significant Opportunities in Atmospheric Research and Science) at NCAR

Dana Pauzaukie (2010)