

## RESUME

Sandra Lee Pinel, PhD, AICP

505 E. Braddock Rd. #604, Alexandria VA 208-596-3913

### EXPERTISE

I am a certified community and regional planning expert and educator with an MS and PhD in the discipline with more than 20 years of experience developing and executing comprehensive local and regional planning and infrastructure development programs with state, tribal, local, and non-governmental organizations and universities. As stakeholder engagement lead within CISA, I develop, sustain and manage inter-agency and public/private partnerships to deliver strategies and capabilities to enhance the resilience of critical infrastructure planning, design, and financing. My leadership record includes managing cooperative relationships and joint technical planning projects to resolve unusually complex issues and align infrastructure investments. I previously led the graduate community planning and design education program, engaged students in practicums with state, tribal, and local governments, taught analytical and comprehensive planning methods and led three interdisciplinary and international social and ecological resilience research projects. As evidenced by publication and speaking record, I am considered an expert in collaborative planning and the public and private governance of complex natural and infrastructure systems under different political, legal, and economic regimes. In 2017 and 2018, was assigned as the infrastructure system recovery specialist during national disaster recovery operations and maintain FEMA surge capacity certification. I have managed national community and regional planning and reliance research projects and initiated multiple projects to build planning and infrastructure resilience capacity with students and local officials.

### EDUCATION & PROFESSIONAL CERTIFICATION:

**Ph.D. Urban and Regional Planning**, University of Wisconsin, Madison, Madison, Wisconsin, 2007. Minor in Anthropology and Latin American Studies. Specialized collaborative planning for social and ecological resilience, completed graduate courses and preliminary exams in regional economic analysis, and conducted and published independent international case-study research on managing complex infrastructure and natural systems across conflicting interests and geographic/jurisdictional boundaries. Dissertation based on national security research funded through a competitive fellowship from the National Security Education Program Boren program, *Co-management of Cultural Landscapes: Collaborating to Compete at Mt. Pulag National Park, the Philippines*.

**M.S. Urban and Regional Planning**, University of Wisconsin, Madison, Wisconsin. Graduate coursework included 12 credits in local public finance, benefit cost analysis, resource economics, cartography, soils, socio-economic impact analysis, and physical planning practicums. The agricultural preservation plan I developed won the APA award.

BA, Brandeis University, Waltham, MA. Anthropology with Honors. Thesis, *Folk Medicine in Peru*.

Post-graduate university courses at the University of New Hampshire (land use law), University of New Mexico (business, financial analysis, economic development and social impact assessment), and Hamline University, St. Paul (alternative dispute resolution).

**American Institute of Certified Planners, AICP** since 1993 – maintained with 32 continuing education credits bi-annually earned through courses, teaching, and professional presentations and publications.

#### Recent Critical Infrastructure-Related Training:

- Argonne National Laboratories, Electrical and Communication Systems 8 hours, 2017

- FEMA Critical Infrastructure and National Disaster Response and Recovery Surge course certifications 2019
- National Acquisition Institute Project Management, 2 courses, 2019
- Required security and information protection training, DHS Secret Clearance annually
- Critical Infrastructure Partnership Advisory Council certification 2017 and 2018

**PROFESSIONAL EXPERIENCE:**

- **12-2016 to Present, Full-time: Stakeholder Engagement Lead, and Community Planner, DHS Cybersecurity and Infrastructure Security Agency, Infrastructure Development and Recovery Program (IDR) (formerly NPPD Office of Infrastructure Protection):** Responsible for establishing and maintaining the organization's plan for engaging stakeholders to achieve collective objectives and increasing the resilience of the Nation's critical infrastructure. I lead three major infrastructure planning partnerships and advise the branch on how to build the capacity of state, regional, and local planners to identify critical infrastructure priorities, establish resilience objectives, identify dependencies among infrastructure systems, and how to develop cooperative relationships leading to joint technical efforts in planning projects to resolve unusually complex issues. The branch identifies potential points of failure, interdependencies, and possible cascading effects, and develops recommendations for increasing resilience in the face of these risks. I established, executed and maintained the stakeholder engagement strategy to work with infrastructure resilience experts and multiple federal agencies to build infrastructure resilience analysis and planning capabilities that are being piloted with state, local, tribal, and territorial governments. This is evidenced by my leadership in the establishment and facilitation of the CIPAC-chartered Resilience Investment, Planning and Development cross-sector working group which is developing strategies, based on emerging threats, needs, and gaps to recommend and influence Federal, State, Local, Tribal, Territorial (FSLTT) government officials in the development and improvement of local policies, procedures, and directives related to resilient critical infrastructure design and investment. I adjudicated the charter, briefed leadership, recruited the co-chairs and initial technical experts, developed White Papers and work plans, and applied strategic planning expertise to facilitate meetings across experts to achieve deliverables. I am responsible for partner briefings, messaging, high-level partnerships with academia, federal agencies, and private associations and foundations and strategic outreach for the delivery of technical assistance capabilities.

I led a National Drought Resilience Partnership interagency work group for two years to document from NPPD reports, the impacts of drought on infrastructure services across sectors and to develop the National Drought Resilience Partnership's infrastructure Drought Resilience Guide and served as action officer for CISA (then NPPD-IP) on the National Drought Resilience Partnership, the Rockefeller 100 Resilient Cities Initiative, the Committee on Marine Transportation Systems Resilience Integrated Action Team (CMTS-R'IAT). I execute the agency's infrastructure development and recovery mission with staff that provide critical infrastructure dependency assessments. With the CMTS-R'IAT, I secured and managed a \$2M infrastructure assessment project with the USACE Engineer Research and Development Center to develop and test a port resilience decision guide that will be made nationally transferable. I developed the pilot project with the Commonwealth of Kentucky and CISA Region IV for applying the newly developed Infrastructure Resilience Planning Framework (the Framework), to meet local and regional critical infrastructure resilience challenges before and after disasters and to demonstrate the value that the Framework can add to FEMA's Hazard Mitigation Planning guides. In order to build national infrastructure planning capacity with local governments, I developed partnerships with the National Association of Development Organizations and the International City County Management Association.

Agency leadership applied my facilitation expertise to facilitate staff mission retreats and develop

concepts of operations for engaging with FEMA and other sector-specific agencies for infrastructure development and to co-train the agency's disaster recovery cadre (2018). At VAB, I have gained additional knowledge in construction processes and infrastructure systems by receiving training from and working with the Argonne National Laboratory and Idaho National Laboratory and serving as the co-lead for infrastructure systems recovery with US Army Corps of Engineers in Puerto Rico and the US Virgin Islands, assignments which required obtaining data on systems from multiple territorial and federal agencies and developing priority recovery strategies for roads, water and wastewater, ports, and community facilities and organizing interviews with territorial owners and operators for the Naval Post Graduate School, National Renewable Energy Laboratory and developing mission assignments for transportation planning later funded by FEMA. The FEMA Community Planning and Capacity Building Recovery Support Function secured the SMEs I recommended to provide support to the municipalities in Puerto Rico for preparedness. My recommendations have been included in CISA's evolving role in the National Disaster response and recovery frameworks and missions.

- **6-2015 to 12-2016, 20 hrs./wk.: Fulbright Scholar and Research Scholar, Antioch University New England Environmental Studies:** competency as demonstrated by Research lead to apply regional planning, social science, and collaborative research to the intergovernmental management of complex landscapes. Facilitated regional landscape management plans with multiple provinces, municipalities, national agencies, and regional institutions with a University in Ecuador, taught global environmental change, and advised PhD students.
- **6-2014 to 6-2015, Full-time: Visiting Professor and Scholar, Universidad Técnica Particular de Loja as a Government of Ecuador and Prometeo Scholar.** Managed and mentored applied research and workshops with provincial, national, and indigenous organizations for the management of a complex natural and economic landscape. Mentored Ecuadorian faculty to result in peer-reviewed publications.
- **1-2014 to 5-2014, 32 hrs./wk.: Hyde Chair of Excellence, Community and Regional Planning, University of Nebraska College of Architecture and Planning:** Selected as SME in community and regional planning to provide lectures and to teach special collaborative and regional planning courses. Co-developed an infrastructure resilience NSF proposal with two other universities, one of which is a DHS Center of Excellence.
- **9-2017 to 5-2013, Full-time: Academic Program Coordinator for Bioregional Planning and Community Design program and Assistant Professor, Conservation Social Sciences, College of Natural Resources, University of Idaho:** Developed and taught the core community and regional planning theory, practice, and methods classes. Executed service learning agreements with Federal, State, Local, Tribal, Territorial (FSLTT) government officials that engaged planning students to facilitate planning meetings and develop strategies, based on emerging threats, needs, and gaps, for the development and improvement of local policies, procedures, and directives related to resilient critical infrastructure design and community planning. Represented the program to the National Accreditation Board. Acquired and managed a USDA contract with the US Forest Service for a national pilot in participatory forest planning and researched and published case studies on multi-interest resource management. Graduated 7 PhD and MS students, supervised four research assistants and developed and served as co-PI for three major social and ecological resilience research projects with multiple universities and disciplines to address transboundary water and infrastructure systems.
- **1-2002 to 12-2007 Full-time PhD student and researcher, University of Wisconsin, Madison. US:** Foreign Language and Area Studies fellow and Boren Fellow, urban and regional planning lecturer, and writer of peer-reviewed articles on collaborative planning (see concurrent teaching position below).
- **9-1996 to 6-2002, Full-time: Senior Planner, Sector Representative, Metropolitan Council, St. Paul, MN:** 6 years of GS 13 equivalent experience in the review of local comprehensive plans for

compliance with metropolitan, state, and national standards for infrastructure systems, watersheds, and housing, and other regional development requirements. Used policy and negotiation to effectively influence Federal, State, Local, Tribal, Territorial (FSLTT) government policy implementation by working with officials in the development and improvement of local policies, procedures, and directives related to resilient critical infrastructure design and community planning. Responsible for comprehensive plan environmental and policy compliance and plan review reports, negotiation of complex infrastructure and land use policy conflicts between state, federal, and local governments and presentations for 60/190 local governments on all aspects of growth management to the state-appointed Metropolitan Council. Managed Mississippi River partnerships with state and federal agencies. Co-organized and managed the River Team and national river designation with the University of Minnesota and public and private stakeholders for river corridor protection. Responsible for coordinating local planning technical assistance, funding, and plan review with the state Department of Natural Resources and National Park Service for consistency with the Mississippi National River and Recreation Area and state Critical Area environmental and design regulations (see publications for results).

- **5-1991 to 1-1995, Full-time: Planner and Executive Management Analyst, N. M. Department of Finance and Administration, Local Government Division, & Public Information Officer, Office of Indian Affairs (OIA), Santa Fe, NM:** Responsible for establishing and maintaining the state's stakeholder and inter-agency teams and planning initiatives to increase the resilience of state investments in local and tribal critical infrastructure. Responsible for strategic planning, the development and management of the inter-agency infrastructure financing and housing finance groups of state, federal and regional agencies to build local planning and implementation capacity. Obtained Ford Foundation grant for project with seven regional councils. Drafted strategic plan for department, co-staffed the governor's strategic governance task force, and coordinated department assistance to the New Mexico Association of Regional Councils and the state's Rural Development Council. New Mexico Office of Indian Affairs: Wrote and produced *The Source*, a policy publication and analyze state policy for impact on 22 tribal governments. Developed state capacity-building programs and directives related to resilient critical infrastructure design and community planning and strategic plans for the state office of finance and administration to support local planners in establishing resilience objectives, identifying dependencies among infrastructure systems, and, developing cooperative relationships leading to joint technical efforts in planning projects to resolve unusually complex issues.
- **9-1994 to 3-1995, Half-time: Detailed as Policy Analyst Detail to the US Advisory Commission on Intergovernmental Relations, Washington, D.C. and to the National Rural Development Councils, USDA, Washington D.C:** Evaluated federal policy for unfunded mandates in order to streamline federal planning requirements that affected rural infrastructure financing capacity and regional transportation planning. Contributed to national reports and developed two major white papers for the ACIR and National Rural Development Council.
- **1988 to 1990: Institute for Cultural Affairs West, Phoenix AZ, Native American Leadership Program and Seventh Generation Fund, Washington D.C.** Secured private foundation funding for the Native American leadership program. Co- facilitated and documented participatory plans national Native American organizations.
- **4-1982 to 12-1987, Full-time: Director of Social and Economic Development, Five Sandoval Indian Pueblos, Bernalillo, NM:** Responsible for developing, managing federal-funded social and economic development grants to support the planning and economic development capacity with five member tribes. Developed planning and economic development assistance, business training, agricultural marketing, credit union financing and trained and supervised six tribal planning staff. Managed an annual budget of \$250,000 in state and federal funds and consultant contracts. Developed water and wastewater projects and strategies for tribal government to co-manage national dam water releases to reduce negative impacts on resilience.
- **8-1977 to 5-1979, Graduate Student and Research Assistant, Department of Landscape**

*Architecture and Department of Urban and Regional Planning, UW Madison, WI*

**HONORS AND AWARDS**

- 2018 Team Infrastructure Security Award, Cybersecurity and Infrastructure Security Agency, for bringing infrastructure and planning expertise to recovery operations in the US Virgin Islands and Puerto Rico.
- 2014-2016 Fulbright Nexus of the Americas, selected as one of 20 scholars and practitioners from across the Hemisphere to advance adaptation to climate change, including electrical systems and food security.
- Service Learning Award for designing and executing community planning courses with local governments, University of Idaho, 2009.
- Gill-Chin Lim Award for Graduate Student Research Travel to the ACSP Conference 2006.
- David L. Boren Fellow, National Security Education Program. 2002-2005: Title- Devolution of Government Planning and Indigenous Participation in the Philippines.
- Foreign Language Area Studies, (FLAS) U.S. Department of Education through the Center for Southeast Asian Studies for Tagalog (2003-2004) and Center for Latin American, Iberian, and Caribbean Studies (LACIS) for Quechua (2002-2003, 2004), UW Madison.
- Tinker-Native Grant, University of Wisconsin, LACIS, for exploratory fieldwork in Peru and Ecuador. 2004-2005: Title- Indigenous Participation in Protected Area Plans – Process or Institutions? As under graduate, Sachar International Institute, Brandeis University anthropological fieldwork in Peru.

**TRAINING PLANNERS AND RESILIENCE PROFESSIONALS**

**University Courses Taught**

- Global Environmental Change, PhD Course, Antioch University New England, Spring 2017.
- Regional and Collaborative Planning, CRPL 495/895, University of Nebraska, Lincoln, College of Architecture, 2014.
- University of Idaho: Planning History, Theory and Professional Ethics; Comprehensive Local and Regional Planning; Planning Studio; Advanced Studio; Conservation Social Sciences Seminar on Cultural Landscapes; Seminar on Adaptive Management and Traditional Ecological Knowledge; International Land Preservation and Conservation Systems, Qualitative Planning Methods Modules.
- Mentored four PhD students and matriculated 10 MS Bioregional Planning students.

**PUBLISHED COMMUNITY and REGIONAL PLANNING AND RESILIENCE RESEARCH:**

**Refereed and Adjudicated Articles and Book Chapters:**

- Pinel, S. L. & Urie, R. (2017). Learning Reflexive Planning: A Narrative of Teachable Moments in Community Engagement. *Journal of Architectural Planning and Research* 34” 32-48.
- Pinel, S. L., López, F. R., Morocho Cuenca, R., Astudillo, D., & Merriman, D. (Under final review). Scaling-down or scaling-up? Local actor decisions and the feasibility of decentralized environmental governance: The case of páramo wetlands in Southern Ecuador. *Scottish Geographic Journal*.
- Conway-Gómez, K., Pinel, S. L., Torres Lima, P. A. (forthcoming). Adaptive governance for resilience in peri-urban socio-ecological systems. A Chapter in Calderice, O. (eds.) *Urban resilience for risk and adaptation governance: Lessons from the practices*. New

York: Springer.

- Pinel, S. L. (2015). Feasible and Appropriate Spatial Planning: Use of Ethnographic Research. In E Silva, P. Healey & N. Harris (eds.). *Research Methods in Spatial and Regional Planning*. London: Town and Country Chapter 3.4.
- Inínguez, V., Helsley, J., Pinel, S. L., Ammon, J., Wendland, K., Lopez, F. (2013). Collaborative Community-based Governance in a Transboundary Wetland System in the Ecuadorian Andes: Opportunities and challenges at a proposed Ramsar site. *Mountain Research and Development* 33.3 (August 2013, online open access).
- Daniel, J., Pinel, S.L, and Brooks, J. (2013). Identifying and Overcoming Barriers to Collaborative Transboundary Water Management in a Fragmented Governance Setting: Perceptions, strategies, and structures. *Mountain Research and Development* 33(3) (August 2013, online open access).
- Pinel, S. L. (2013). Giving and Reciprocity in Natural Resource Management and Consensus- building: An application of economic anthropology to understanding the Clearwater Basin Collaborative. *Human Organization* 72(2): pp. 164-174. .
- Pinel, S. L. and J. Pecos, J. (2012). Generating Co-management at Kasha Katuwe Tent Rocks National Monument, New Mexico. *Environmental Management* 49 (3): 593-604.
- Pinel, S. L. (2011). Regional Planning as Mediation: Inside the Minnesota's Metropolitan Twin Cities Regional Plan Implementation. *Journal of Environmental Planning and Policy* 13(4).
- Pinel, S. L. (2009). Collaborating to Compete at Mt. Pulag National Park, the Philippines. *Planning Theory and Practice*. Vol. 10(1): 105-131.
- Pinel, S. L, R. Pecos, and P. Pino. (2007). Culture and Cash – How Two New Mexico Indian Pueblos Combined Culture and Development. *Alternatives: Local, Global, Political* Vol. 32, January-March 2007: 9-39.
- Pinel, S. L. (2007). Planning Partnerships for Indigenous Cultural Landscapes – Conditions for Conflict or Cooperation at Mt. Pulag, the Philippines. *International Journal of Environmental, Cultural, Economic, and Social Sustainability*. Online Vol. III, March 2007.
- Pinel, S. L. (1994). Social Impact Assessment Sensitizes Planning. Chapter 6, in Frank So, (ed.) *Planning and Community Equity*. Chicago: American Planning Association: 77-104.
- Pinel, S. L & M. J. Evans. (1994). Tribal Sovereignty and the Control of Knowledge. Chapter 3 in Tom Greaves (ed.), *Intellectual Property Rights, a Sourcebook*. Oklahoma City: Society for Applied Anthropology: 41-56.
- Published symposia, *Natural Resource Development on Indian Lands, Planning for Success, American Bar Association Section of Natural Resources, Energy and Environmental Law Committee on Native American Natural Resource Law and Indian Law Section*, State Bar of New Mexico, February 21-22, 1991, Albuquerque, NM.

#### **Selected Professional Reports:**

- CMTS Resilience Integrated Action Team. 2018. *The 2017 Hurricane Season: Recommendations for a Resilient Path Forward for the Marine Transportation System*. CMTS, December 2018 (Pinel contributor).
- Streamlined Federal Planning Requirements White Paper, National Rural Development Program and Federal mandates working group with Advisory Council on

Intergovernmental Relations comments on SB 88, The Local Empowerment and Flexibility Act of 1995, Washington D.C.: USDA Rural Development.

- Proposal for Department of Infrastructure and Transportation Community Development Division, prepared for the *Department of Finance and Administration* (DFA): Santa Fe, N.M, State of New Mexico DFA, 1995.
- New Mexico Governor's Task Force on Government Efficiency Report, January 7, 1994. Co- authored with Janet Peacock. NM DFA, Santa Fe, NM, 1993.
- Local Assistance Handbook, prepared for, Governor Bruce King and DFA, DFA-Local Government Division, NM. 128 grant and funding programs summarized for local reference, 1993 & 1994. NM DFA, Santa Fe, NM, 1993.

#### **Selected Workshops, Seminars, Invited Lectures:**

- Infrastructure Resilience Planning Framework Webinars – State of Kentucky, SLTTGCC, and FEMA 2017-2019.
- Partnerships to Build Infrastructure Resilience Capacity: A DHS/CISA Approach. Presented to the *Critical Infrastructure Protection and Resilience North America 2019 Conference*, Tampa Florida, May 8, 2019.
- Panel Presentation at National Infrastructure Week, 2018, *Committee on Marine Transportation Systems: Lessons from the 2017 Hurricane Season*, May 18, 2018.
- Crossing Sectors and Boundaries: The Infrastructure Development and Recovery Program, presented by Sarah Gambill and Sandra Pinel to the *Frontiers in Resilience Summit*, George Mason University, Arlington, VA, May 8, 2017 and to the *Urban Resilience Summit*, University of New Mexico Resilience Institute and Sandia National Labs, August 7-8, 2017.
- Interrogating International Paradigms: Using Case Studies to Understand Regional Governance Dynamics and Outcomes in the Philippines and the Western USA. Invited lecture to *MIT Urban Studies and Planning*, February 24, 2014.
- Context Matters: The Application of Ethnography to Planning and Design. Hyde Lecture Series, *University of Nebraska College of Architecture*, January 17, 2014, Lincoln, NE (AICP Continuing Education Workshop).
- Collaborative Forest Planning and Social and Cultural Values in The Nez Perce and Clearwater National Forests, Presented to five Idaho community workshops and *Forest Planning Summit*, under contract with the USFS, USDA, Fall 2012.
- Urbanizing Landscapes – An Update of Research Developments to the All Scientist Meeting, Water Sustainability and Climate Change Incubation Project, February 23, 2012, and the NSF Research Collaborative Network Project, Coeur D'Alene, ID, March 5, 2013 and Flathead Lake, August 19-21, 2013.
- Collaborative Planning – Research Results to Clearwater Basin Collaborative, February 27, 2013; Rural and Asset Based Development, Presented to the Clearwater Basin Collaborative, June 25, 2010.
- Idaho Rural Partners community and regional planning expert “visiting teams” for Community Reviews, Nez Perce Tribe and City of Lapwai, 2012 and Silver Valley, Idaho, 2011.

#### **Selected Professional Meeting Papers on Community and Regional Planning and Infrastructure Governance**

- Pinel, S. L. and Long, J. Applying a legal pluralism framework to collaborative planning research and theory: A proposal for understanding the governance dynamics of two complex mountain landscapes. Presented at the *5<sup>th</sup> Joint AESOP-ACSP Congress*, Dublin, Ireland, July 16, 2013.
- Daniel, J. and Pinel, S, L. Addressing the Legal Constraints to Collaborative Resource Management: International Literature Compared to a North Central Idaho Forest Collaborative, *53<sup>rd</sup> Association of Collegiate Schools of Planning (ACSP) Annual Conference*, Cincinnati, Ohio, November 4, 2012.
- Pinel, S. L. Giving and Reciprocity in Collaborative Regional Governance: An Application of Economic Anthropology to Understanding and Resolving Stalemates. Invited session, *Beyond Collaboration*, ISSRM, Alberta, Canada, June 21, 2012.
- Potential contributions of planning scholarship to resilience research agendas: An example from an urbanizing landscape in the Intermountain West. *52<sup>nd</sup> Association of Collegiate Schools of Planning (ACSP) Annual Conference*, October 13, 2011, Salt Lake City, Utah.
- Daniel, J. and Pinel, S. L. Collaboration by Federal Land Management Agencies: The Role of Legal Structures and Agency Culture. *ISSRM Annual Meetings*, June 7, 2011, Madison, Wisconsin. Submitted to JEPM, September 2011.
- Pinel, S.L & Hollenhorst, S. Planning Without Borders – An Emerging Approach to Multi- disciplinary Planning Education, Presented to the *51<sup>st</sup> ACSP Annual Conference*, October 8 2010, Minneapolis, MN.
- Pinel, S. L. Co-management of Indigenous Places: Sustained Governance in Context. Presented to the *Joint International Conference of AEOSP and the 49<sup>th</sup> ACSP*, July 9, 2008, Chicago, IL.
- Pinel, S. L. Local Redevelopment in the Twin Cities Mississippi National River: Regional Planning as Intergovernmental Mediation, presented to the *48<sup>th</sup> ACSP Annual Conference*, November 2007, Milwaukee, WI.
- Pinel, S. L. Collaborating to Complete: Stakeholder Agendas and Co-management. Research findings presented at two symposiums sponsored by the *University of the Philippines, College of Public Administration and Governance and School of Urban and Regional Planning, University of the Philippines, Diliman*, September 2006 and at the *Cordillera Studies Center, University of the Philippines, Baguio*, September 2005.
- Session Chair and Organizer: Fiscal Costs of Growth from Rural Agricultural to Suburban Environments. For the *Joint International Summit on Rural and Community Development*, July 22-25, 2001, Duluth, MN.

#### **Resilience Research Grants and Contracts:**

- 2012-2013: PI), USFS, Rocky Mountain Region. New Forest Plan Pilot Process Design, Facilitation and Evaluation, \$80,000 Cost-share agreement, August 1, 2012 - 2014.
- 2010-2016: Gosz, Pinel, Crabtree. Sanford and Norton (Co-PIs), National Science Foundation, SEES-RCN, Complex Mountain Landscapes RCN-SEES: Advancing Our Social and Environmental Understanding of Complex Mountain Landscapes and their Vulnerability to Environmental Change, \$750,000, 2012-2017.
- Jim Gosz (UI), Todd Norton (WSU), Pinel, S. L. et al., WSC - Category 1. Sustainability Dynamics for Water Resources in a Rapidly Urbanizing and Climatically Sensitive Region, 2010 – 2012.
- National Science Foundation Incubation Grant,\$150,000, 2010-2012. Waits, L., Roon,

D., Tank, D. Mulkey, S., Pinel, S. Rachlow, J. An Interdisciplinary Team-Based International Research Experience in Biodiversity Conservation and Sustainable Community Development in the Ecuadorian Andes, National Science Foundation, Undergraduate Research, \$144,000, 2010 - 2013.

- o Partners: Learning from Complex Challenges in Two Idaho Wilderness to Urban Transition Landscapes, USDA-CREES for implementing the McIntire Stennis Strategic Plan \$150,000, 2010 - 2013.
- o Pinel (PI), López-Rodríguez, Morocho-Cuenca. Decentralization y Conservation Management: An Analysis of Decisions Affecting in the High Andean Wetlands in Yacuambi, Universidad Técnica Particular de Loja and SENSEYCT, \$30,000, 2014-2015.
- o 2015, Pinel (PI), Kauneckis, Gruber, Peralvo, Lima Torres, S de Almeida, et al. Building Local and Regional Institutional Capacity to Govern Complex Mountain Landscapes: Improving Adaptive Management Practice in Mountain Systems. Proposal submitted to the Belmont Call: Mountains of our Future Earth, June 2, 2015.
- o 1994, DFA Local Government Division (S. L. Pinel written and implemented) Building Regional and County Planning Capacity in New Mexico. Ford Foundation Rural Poverty and Resources Program proposal, \$130,000 funded to DFA, Local Government Division (LGD), NM, 1994-1997.

**SERVICE:**

- o Vice President of Federal Policy, Regional and Intergovernmental Planning Division, American Planning Association, 2014-, formerly Small Town Rural Division Board, Minority and Equity committee, American Planning Association (member since 1984).
- o American Association of Collegiate Planners, since 2008
- o Sustaining Fellow of the Society for Applied Anthropology.
- o Brandeis University Alumni Admissions Council, 1999-2006.
- o VP Signature Initiative, Urban to Wilderness Transition Landscapes, 2010
- o UI Disability and Affirmative Action, UBUNTU, Diversity University Committees, 2010-2013
- o Grant review panel, National Security Education Program, David Boren Fellowships for Foreign Language and Graduate International Studies/Research, 2010.
- o Manuscript Review, Society and Natural Resources, 2008, 2010 and 2012; Journal of Interpretation Research, 2010; Environmental Management, 2011-2012, other journals