

**CURRICULUM VITAE**  
**Kevin A. Lombard, Ph.D.**

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**EDUCATION**

- May, 1991**      **Bachelor of Science in Agriculture, Horticulture**, Texas Tech University, Lubbock, Texas.
- August, 2000**      **Master of Science in Agriculture, Horticulture**, Texas Tech University, Lubbock, Texas
- May, 2007**      **Doctor of Philosophy, Major: Agronomy; Minor: Public Health (US and Mexico Border Health Issues)**, New Mexico State University, Las Cruces, NM

**WORK EXPERIENCE**

- 2015-present**      **Superintendent, Agricultural Science Center at Farmington.** Administrative leadership to the ASC Farmington, located on land leased from the Navajo Nation.
- 2014-Present**      **Associate Professor of Horticulture (Tenured), New Mexico State University Plant and Environmental Sciences department/Agricultural Science Center at Farmington.** 75% research (NMSU) and 25% teaching (San Juan College). Research focus: specialty horticultural crop introductions for semi-arid Northwest New Mexico and the design of integrated approaches 1) to improve wellness of Navajo people and 2) to conserve water in the urban landscape.
- 2007-2014**      **Assistant Professor of Horticulture, New Mexico State University Plant and Environmental Sciences department/Agricultural Science Center at Farmington**
- 2007**      **U.S. Crisis Corps Volunteer, FAO Junior Farmer Field and Life School (JFFLS) Lusese village advisor, Caprivi Region, Namibia.** One hectare school community garden project targeting HIV/AIDS impacted orphans and vulnerable children. Led train the trainer HIV/AIDS prevention and life skill building activities with adult facilitators. Identified sites for two-year Peace Corps volunteers.
- 2001-2007**      **Teaching and Research Assistant, Department of Agronomy and Horticulture, New Mexico State University, Las Cruces. Teaching activities:** Instruction of Principles of Agronomy/Horticulture labs and curricula revision. Dissertation title: Opportunities and challenges of Poplar-based agroforestry in the Four Corners region of New Mexico.
- 2003**      **Horticulture Production Advisor, Rural Enterprise Unit/Ministry of Agriculture (MOA)/ACDIVOCA, Asmara Eritrea.** Team identification of fruit and vegetable production and marketing constraints, train the trainer workshops and development of Eritrean language horticultural extension publications. Project management including supervision of U.S.-based volunteers and consultants.
- 2000-2001**      **Lab Instructor/Research Technician, Plant and Soil Science (PSS) Department, Texas Tech University, Lubbock, Texas.** Instruction of Principles of Horticulture laboratories. Field/greenhouse technical support to the Castor (*Ricinus communis*) breeding project for oilseed and anti-cancer activity.
- 1998-2000**      **Teaching Assistant, Plant and Soil Science Department, Texas Tech University, Lubbock, Texas.** Team curricula development of web-based versions of introductory horticulture courses. Instruction of web-based and traditional classroom labs. Thesis title: Flavonol quercetin in onion (*Allium cepa* L. by high performance liquid chromatography and spectrophotometric methodology.
- 1995-1998**      **Horticulturist I, Filoli Center, Woodside, California.** National Trust for Historic Preservation property. Maintenance of ornamental, vegetable (kitchen garden) and

- fruit tree collections. Supervision of interns and volunteers and conducting occasional weekend gardening workshops.
- 1994-1995** **Buildings and Grounds Foreman, Rollins Blue Cypress Ranch, Okeechobee, Florida.** Supervision of ornamental landscape grounds keeping crew within a private 27,000-acre cattle ranch/hunting retreat.
- 1991-1994** **U.S. Peace Corps Volunteer, Kagera Integrated Fisheries Project (Tanzanian Department of Natural Resources and FAO/UNDP), Bukoba Tanzania (western Lake Victoria).** Agroforestry extension/outreach and seedling production of fuel wood, timber, and fruit trees to mitigate deforestation associated with fish smoking and to improve the livelihoods of artisanal fishermen.
- 1989-1991** **Horticultural Assistant, James W. Kent Horticultural Services, Fort Worth, Texas.** Residential and commercial grounds maintenance, ornamental landscaping, and arboriculture.
- 1990** **Horticultural Intern, Planting Fields Arboretum (State of NY), Long Island, New York.** A 400-acre historic estate. Grounds maintenance, landscaping, greenhouse care, arboriculture, and public garden interpretation.
- 1990** **Apple Orchard Pruner (“you-pick” orchard), George Elle, PhD., Lubbock, Texas.** Dormant season pruning.
- 1981-1990** **Lombard Horticultural Service, Fort Worth, Texas.** Owner/operator of residential grounds maintenance and landscaping service.

## **OTHER EXPERIENCE AND PROFESSIONAL MEMBERSHIPS**

### **1. Professional Memberships**

American Society for Horticultural Science (ASHS)  
 International Society for Horticultural Science (ISHS)  
 Soil Science Society of America (SSSA)

### **2. Membership in Committees**

2014-present: Member, NMSU PES Undergraduate Student Recruitment and Retention Committee  
 2013-2014: Chair, Young or Early Career Faculty and Professional Leadership Symposium/Competition (2014 ASHS Annual Meetings)  
 2008-present: Co-chair, San Juan College Horticulture Program  
 2009-2013: Member, NMSU PES Graduate Studies Committee  
 2007-2010: Chair, Urban Landscape Water Conservation Coordinating Committee

### **3. Honorary Societies, and Other Organizations**

Sigma Xi - the honor society of research scientists and engineers, 2012  
 Phi Beta Delta - Honorary Society for International Scholars, 2000  
 Gamma Sigma Delta - Honorary Agriculture Fraternity for academic achievement, 2000  
 Pi Alpha Xi - Honorary Horticulture Fraternity for academic achievement, 1991  
 Alpha Zeta - Honorary Agriculture Fraternity for academic achievement, 1991  
 Texas Tech Marching Band “*the Goin Band from Raiderland*” 1986-1990

## **REFEREED AND TECHNICAL PUBLICATIONS** \*indicates student working with me

- Ornelas, I., D. Deschenie, S. Bishop, **K.A. Lombard**, S.A.A. Beresford (Submitted 2016). Yéego Gardening!: A Community Garden Intervention to Promote Health on the Navajo Nation. Progress for Community Health Partnerships. (In Press).
- Lombard, K.A.**, D. Deschenie, S.A.A. Beresford, I. Ornelas, J. Jim, M. Bauer, F. Nez. 2015. Where Health and Horticulture Intersect: A Navajo Wellness Collaboration. American Society for Horticultural Sciences. Aug 4-7, 2015. New Orleans, LA. *HortScience* 50(9):S360 (Abstr.).
- Lombard, K.A.**, B. Barnett, and R. Arnold. 2015. Tiny houses for Northwest, NM: A collaboration between San Juan College and the New Mexico State University Agricultural Science Center at Farmington to demonstrate sustainable living. Aug 4-7, 2015. New Orleans, LA.

- HortScience* 50(9):S362 (Abstr.).
- Idowu, O. J., **K. A. Lombard**, D. Hyder and A. L. Ulery, 2015: Soil Quality of a Semi-Arid Pasture Irrigated with Reverse Osmosis Wastewater-A Case Study from Northern New Mexico. *Journal of Water Resource and Protection* 7, 1121-1130.  
[file:///C:/Users/klombard/Downloads/JWARP\\_2015092215223553.pdf](file:///C:/Users/klombard/Downloads/JWARP_2015092215223553.pdf)
- O'Neill, M. K., Allen, S. C., Heyduck, R. F., **Lombard, K. A.**, Smeal, D., Arnold, R. N. (2015). Hybrid poplar: a potential multipurpose tree for drip irrigation in semi-arid regions (pp. 6). Durban: United Nations Food and Agriculture Organization.  
<http://foris.fao.org/wfc2015/api/file/55469d39e52d79267e89a464/contents/601eacf9-017f-4434-8000-a06b4ab2ee31.pdf>
- Lombard, K.A.**, B. LaShell, F.J. Thomas, J. French, T. Bates. 2015. Hops virus testing: Significance and implications for establishing hop production in New Mexico and Southwest Colorado. *NMSU-AES Research Report 788*. July 2015.  
<http://aces.nmsu.edu/pubs/research/horticulture/RR788.pdf>
- \*Sutherin, S., **K.A. Lombard**, and R. St. Hilaire. 2014. Website? Video? Facebook? Mobile App? One Group's Experience Developing and Comparing Urban Landscape Water Conservation Digital Outreach Resources. *Journal of Extension* 53(1) Article #1FEA1  
<http://www.joe.org/joe/2015february/a1.php>
- Arnold, R. N., M.K. O'Neill, D. Smeal, D., **K.A. Lombard**. 2014. *Pest control in crops grown in northwestern New Mexico, 2013*. ADR 100-2013. (pp. 13). Las Cruces, NM: NMSU Cooperative Extension., Abstract/Synopsis: Weed control in crops grown in northwestern New Mexico in 2013.
- Lombard, K.A.**, \*K. McCarver, F.J. Thomas, R. Acharya, T. Bates. 2014. What's Hop'pening in Northwest New Mexico? Hops (*Humulus lupulus*) trials summary 2009 to 2014. American Society for Horticultural Sciences. July 28-30, 2014. Orlando, FL. *HortScience* 49(9):S318-319 (Abstr.).
- \*Nelson, C.W., A. Unc, **K.A. Lombard**, M. Lucero, and S. Perkins. 2014. Impact of seed exposure to plant material on plant growth and development on remediated arid lands. *Journal of the American Society of Mining and Reclamation*. 3(1) 41-69.
- O'Neill, M.K., S.C. Allen, R.F. Heyduck, **K.A. Lombard**, D. Smeal, and R.N. Arnold. 2014. Hybrid poplar (*Populus* spp.) adaptation to a semi-arid region: results from Northwest New Mexico (2002–2011). *Agroforestry Systems*. 88(3) 387-396. DOI 10.1007/s10457-014-9694-5 <http://link.springer.com/article/10.1007%2Fs10457-014-9694-5#page-1>
- Lombard, K.A.**, S.A.A. Beresford, I. Ornelas, \*C. Topaha, \*T. Becenti, \*D. Thomas, and \*J.G. Vela. 2014. Healthy Gardens/Healthy Lives: Navajo perceptions of growing food locally to prevent diabetes and cancer. *Health Promotion Practice*. 15(2) 223-231. Online first 12 July 2013. DOI: 10.1177/1524839913492328. <http://hpp.sagepub.com/content/early/2013/07/09/1524839913492328.full.pdf+html>
- Lombard, K.A.**, C. Martin, and J. Greenfield. 2014 Risk Management Education in Southwest Medicinal Herb Production and Marketing in New Mexico: Assessing grower and potential grower outcomes after a two-day workshop. *Journal of Herbs, Spices & Medicinal Plants*. 20:31–44. DOI:10.1080/10496475.2013.819477
- Lombard, K.A.** B. Maier, F.J. Thomas, M.K. O'Neill, S. Allen, and R. Heyduck. 2013. Wine Grape Cultivar Performance in the Four Corners Region of New Mexico: 2010-2012. *HortTechnology*. 23(5) 699-709.
- \*Sutherin, S., **Lombard, K.A.**, and R. St. Hilaire. 2013. Southwest Plant Selector: A mobile application for iPhone and iPad. *HortTechnology*. 23(5) 602-609.
- Lombard, K.A.**, B. Maier, and M.K. O'Neill. 2012. Where's the grape? High elevation grape trials in northwest New Mexico. American Society for Horticultural Sciences. July 31-Aug 3, 2012. Miami, FL. *HortScience* 47(9):S277-278 (Abstr.).
- \*Sutherin, S., **K.A. Lombard**, R. St. Hilaire. 2012. Center for Landscape Water Conservation: An integrated approach to internet-based outreach. American Society for Horticultural Sciences. July 31-Aug 3, 2012. Miami, FL. *HortScience* 47(9):S250 (Abstr.).
- Arnold, R.N., D. Smeal, **K. Lombard**, M.K. O'Neill, S.C. Allen, M. West, and R. Yazzie. 2012. Broadleaf weed control in dry beans (*Phaseolis vulgaris*) with preemergence applications of Valor alone or in combination from 2004 to 2008.

- Lombard, K.A.**, S.C. Forster-Cox, K. Huttlinger, D. Smeal, S.A.A. Beresford and M. O'Neill. 2011. Gardens for Health: Development of a Model Diabetes Intervention Project among an Indigenous Tribe in Northwest New Mexico. *Acta Hort.* 911:311-316.
- \*Sutherin, S., **K.A. Lombard**, R. St. Hilaire. 2011. Establishing a Virtual Urban Landscape Water Conservation Center for New Mexico, West Texas, and Surrounding Areas. American Society for Horticultural Sciences. September 25-28, 2011. Waikoloa, HI. *HortScience* 46(9):S390-391 (Abstr.).  
[http://ashs.org/downloads/2011ASHS\\_Conference\\_abstracts.pdf](http://ashs.org/downloads/2011ASHS_Conference_abstracts.pdf)
- Lombard, K.A.**, M. O'Neill, A. Ulery, J. Mexal, B. Onken, S. Forster-Cox, and Ted Sammis, 2011. Fly ash and composted biosolids as a source of Fe for hybrid poplar – a greenhouse study. Special Issue: Biosolids Soil Application: Agronomic and Environmental Implications. *Applied and Environmental Soil Science* vol. 2011, Article ID 475185, 11 pages. doi:10.1155/2011/475185. <http://www.hindawi.com/journals/aess/2011/475185/>
- Smeal, Daniel, **Kevin Lombard**, Margaret West, Michael O'Neill, and Richard N. Arnold. 2011. Low-Pressure Drip Irrigation for Small Plots and Urban Landscapes. Research Report 771. Agricultural Experiment Station Research Report. New Mexico State University. Las Cruces, NM.  
[http://aces.nmsu.edu/pubs/research/agmech\\_eng/rr773.pdf](http://aces.nmsu.edu/pubs/research/agmech_eng/rr773.pdf).
- Smeal, D., M.K. O'Neill, **K.A. Lombard**, R.N. Arnold. 2010. Climate-Based Coefficients for Scheduling Irrigations in Urban Xeriscapes. Proceedings of the 5th National Decennial Irrigation Conference. ASABE and the Irrigation Association. Phoenix, Arizona. December 5 - 8, 2010.
- Lombard, K.A.**, S. A.A. Beresford, \*C. Topaha, \*T. Becenti, S.C. Forster-Cox, D. Smeal, and M. O'Neill. 2010. Is gardening feasible for inclusion into a diabetes intervention project among a Native American tribe in Northwest New Mexico? American Society for Horticultural Sciences. August 2-September 5, 2010. Palm Desert, CA. *HortScience* 45(8):S118. (Abstr.).
- Smeal, D., **K.A. Lombard**, M.K. O'Neill, and R.N. Arnold. 2010. Scheduling irrigations on drip-irrigated vegetable crops using climate-based coefficients and canopy measurements. American Society for Horticultural Sciences. August 2-September 5, 2010. Palm Desert, CA. *HortScience* 45(8):S264. (Abstr.).
- Lombard, K.A.** 2010. Northwest, NM Viticulture update: NMSU Agricultural Science Center at Farmington. Proceedings of the 29th Southwest Wine and Vine Annual Meetings. March 5-6, 2010. Albuquerque, NM.
- Lombard, K.A.**, Mick O'Neill, Robert Heyduck, Blake Onken, April Ulery, John Mexal, and Adrian Unc. 2010. Composted biosolids as a source of iron for hybrid poplars (*Populus* sp) grown in Northwest New Mexico. *Agroforestry Systems*. 81(1): 45-56. DOI: 10.1007/s10457-010-9334-7
- O'Neill, M.K., C.C. Shock, **K.A. Lombard**, R.F. Heyduck, E.B.G. Feibert, D. Smeal, and R.N. Arnold. 2010. Hybrid Poplar (*Populus* spp.) selections for arid and semi-arid intermountain regions of the western United States. *Agroforestry Systems*. 79:409-418. DOI: 10.1007/s10457-010-9286-y.
- Lombard, K.A.**, Mick O'Neill, John Mexal, April Ulery, Blake Onken, Greg Bettmann, and Robert Heyduck. 2010. Can Soil Plant Analysis Development (SPAD) Values Predict Chlorophyll and Total Fe in Hybrid Poplar? *Agroforestry Systems*. 78(1):1-11. DOI: 10.1007/s10457-009-9214-1.
- Arnold, R.N., D. Smeal, M.K. O'Neill, **K.A. Lombard**, R.F. Heyduck, S. Henke, D. Wirth, D. Mankiewicz, R. Wirtanen, S. Katirgis, M. Lepich, F. MacDonald, A. Sattler, and M. Johnson. 2010. Using coal bed methane produced water from well sites for native and non-native grass stand establishment. Research Report 771. Agricultural Experiment Station Variety Test Reports. New Mexico State University. Las Cruces, NM.  
[http://aces.nmsu.edu/pubs/research/livestock\\_range/RR771.pdf](http://aces.nmsu.edu/pubs/research/livestock_range/RR771.pdf).
- Arnold, R.N., M.K. O'Neill, D. Smeal, and **K. Lombard**. 2009. Weeds Industry Report 2008. NMSU College of Agricultural, Consumer and Environmental Sciences - Agricultural Experiment Station Research Report.:37 pages.  
<http://aces.nmsu.edu/pubs/research/agronomy/WeedsIndRpt08%20.pdf>

- O'Neill, M.K., R.F. Heyduck, **K.A. Lombard**, D. Smeal, R.N. Arnold, and C. Owen. 2009. Bioenergy crop production in the Four Corner region. *New Mexico Journal of Science*. 45:41-51.
- Lombard, K.A.** 2009. Northwest, NM Viticulture update: NMSU Agricultural Science Center at Farmington. Proceedings of the 28th Southwest Wine and Vine Annual Meetings. March 27-28, 2009. Albuquerque, NM.
- Smeal, D., M.M. West, Z.F. Williams, M.K. O'Neill, **K.A. Lombard** and R.N. Arnold. 2008. Efficient irrigation of small plots using a simple, inexpensive micro-irrigation system. Proceedings: ICASALS 2006 Conference: Water in Arid and Semiarid Lands: Innovative Approaches and Informed Decision-Making. Nov. 15-17, 2006. Lubbock, TX.
- Lombard, K.A.**, S. Forster-Cox, D. Smeal, and M.K. O'Neill. 2006. Diabetes on the Navajo Nation: What role can gardening and agriculture extension play to reduce it? *Journal of Remote and Rural Health* 6:640.  
<http://www.rrh.org.au/articles/subviewnew.asp?ArticleID=640>  
**Aug 13, 2014: This article has been viewed 43785 times since October 16, 2006 and is the top viewed in the PMID domain 17044752**
- O'Neill, M.K., D. Smeal, R.N. Arnold, and **K. Lombard**. 2006. Growth and survival of drip-irrigated hybrid poplar in the semi-arid Four Corners region. *Journal of Sustainable Forestry*. 23:47-62. DOI: 10.1300/J091v23n02\_03.
- Lombard, K.A.**, E. Peffley, E. Geoffriau, L. Thompson, and A. Herring. 2005. Quercetin in onion (*Allium cepa* L.) after heat-treatment simulating home preparation. *Journal of Food Composition and Analysis* 18: 571-581.
- Lombard, K.A.**, E. Geoffriau and E.B. Peffley, 2004. Total quercetin content in onion (*Allium cepa* L.): survey of cultivars originating from various locations. *HortTechnology* 14(4): 628-630.
- Smith, Crystal, **Kevin A. Lombard**, Ellen B. Peffley, 2003. Genetic analysis of quercetin in onion (*Allium cepa* L.) 'Lady Raider'. *Texas Journal of Agriculture and Natural Resources* 16:24-28.
- Lombard, K.A.** and Daniel de Reuck, 2003. Banana Production and Post-Harvest: A Field Guide Book for Eritrean Farmers. ACDI/VOCA.
- de Reuck, Daniel and **K.A. Lombard**, 2003. An Illustrated Guide to Green Banana Defects for Eritrean Farmers. ACDI/VOCA.
- Sharma, R.K., **K.A., Lombard** and A. Kelete, 2003. Apple Cultivation: A Field Guide Book for Eritrean Farmers. Central Highlands Project.
- Sharma, R.K., W. Biniam, A. Kelete and **K.A. Lombard**, 2003. Spice Cultivation: A Field Guide Book for Eritrean Farmers. Central Highlands Project.
- Auld, D.L., S.D. Pinkerton, E. Boroda, **K.A. Lombard**, C.K. Murphy, K.E. Kenworthy, W.D. Becker, R.D. Rolfe, and V. Ghetie, 2003. Registration of TTU-LRC castor germplasm population with reduced levels of toxins. *Crop Science*. 43(2): 746-747.
- Lombard, K.A.**, A.M. Wagner, J.G. Mexal, and R. Mostafavi, 2003. Introduction to Agronomy and Horticulture, Agro & Hort 100G, Lab Manual, 3<sup>rd</sup> Edition.
- Lombard, K.A.**, E. Geoffriau, E.B. Peffley, 2002. Flavonol quantification in onion (*Allium cepa* L.) by spectrophotometric and HPLC analyses. *HortScience* 37(4): 682-685.
- Lombard, K.A.**, E.B. Peffley, L. Thompson, and E. Geoffriau, 1999. Quantification of quercetin in onion (*Allium cepa* L.) after thermal processing. *Allium Improvement Newsletter* 9:35-38.

**PRESENTATIONS AT SCIENTIFIC/TECHNICAL MEETINGS** \*indicates student working with me

Hyder, Don and **K.A. Lombard**. 2016. From China to New Mexico: Assessing Goji Berry qualities for Southwestern medicinal herb production. Soil Science Society of America, American Society of Agronomy and Crop Science Society of America International Annual Meeting. Nov 6-9, 2016. Phoenix, AZ.

\*Fullen, Samuel, **K.A. Lombard**, A. Ulery, and B. Hunter. 2016. Heavy metal contamination in New Mexico soils after 2015 Gold King Mine Spill. Soil Science Society of America, American Society of Agronomy and Crop Science Society of America International Annual Meeting. Nov 6-9, 2016. Phoenix, AZ.

- Bauer, Mark, **K.A. Lombard**, F. Nez, and L. Garcia. 2016. An Intervention to Promote Navajo Gardening, Nutrition, and Community Wellness. 12th Annual FALCON (First Americans Land-Grant Consortium) Conference. Nov. 5, 2016. Albuquerque, NM.
- \*Paul, Davin. 2016. The impact of Residential gardening on food choices, and dietary intake. 12th Annual FALCON (First Americans Land-Grant Consortium) Conference. Nov. 5, 2016. Albuquerque, NM.
- \*Tom, Katrina. 2016. An intervention to promote gardening in the Navajo Nation. 12th Annual FALCON (First Americans Land-Grant Consortium) Conference. Nov. 5, 2016. Albuquerque, NM.
- \*McCarver, K., **K.A. Lombard**, M.L. Stanford, M. Uchanski. 2016. Capacity Building of Female Farmers' Group through the Use of Bio-fertilizers in an Off-season Vegetable System in Shankapur, Nepal. American Society for Horticultural Sciences. Aug 8-11, 2016. Atlanta, GA.
- Lombard, K.A.**, A. Ulery, B. Hunter, \*S. Fullen. 2016. What are the effects of the Gold King Mine spill on San Juan County, NM agricultural irrigation ditches and farms? Environmental Conditions of the Animas and San Juan Watersheds with Emphasis on Gold King Mine and Other Mine Waste Issues. Water Resources Research Institute. May 17, 2016.
- \*Fullen, S., **K.A. Lombard**, A. Ulery, B. Hunter. 2016. What are the effects of the Gold King Mine spill on San Juan County, NM agricultural irrigation ditches and farms? Environmental Conditions of the Animas and San Juan Watersheds with Emphasis on Gold King Mine and Other Mine Waste Issues. Water Resources Research Institute. May 17, 2016.
- \*Francis, B., **K.A. Lombard**, D.C. Weindorf, A. Ulery, B. Duda, and C. Millares. 2016. Rapid Assessment of Soil Metal Concentrations Along the Animas River, New Mexico. Environmental Conditions of the Animas and San Juan Watersheds with Emphasis on Gold King Mine and Other Mine Waste Issues. Water Resources Research Institute. May 18, 2016.
- Lombard, K. A.** and F.J. Thomas, F. 2016. Equipment for Hops Production, 3rd What's Hop'n-Winter Workshop. March 12, 2016. Fort Lewis College, Durango, CO.
- Deschenie, D., **K.A. Lombard**, S. A.A. Beresford, I. Ornelas, and M. Bauer. 2015. Where Health and Horticulture Intersect: A Navajo Wellness Collaboration. Navajo Nation Human Research Review Board 2015 Conference. Oct. 21-22, 2015. Window Rock, AZ.
- Bauer, M., **K.A. Lombard**, and F. Nez. 2015. An Intervention to Promote Navajo Gardening, Nutrition and Community Wellness. Navajo Nation Human Research Review Board 2015 Conference. Oct. 21-22, 2015. Window Rock, AZ.
- Lombard, K.A.**, and others, Update on Gold King Mine Spill. New Mexico Environment Department. Farmington, NM. Oct 20, 2015. About 75 attendees.
- O'Neill, M. K., Allen, S. C., Heyduck, R. F., **Lombard, K. A.**, Smeal, D., Arnold, R. N. (2015). Hybrid Poplar: A Potential Drip-irrigated Plantation Tree for the American Southwest. 60th Annual New Mexico Water Conference. Water Resources Research Institute. October 7-9, 2015, Taos, NM.  
[https://www.researchgate.net/publication/282613864\\_Hybrid\\_Poplar\\_A\\_Potential\\_Drip-irrigated\\_Plantation\\_Tree\\_for\\_the\\_American\\_Southwest\\_%28poster%29](https://www.researchgate.net/publication/282613864_Hybrid_Poplar_A_Potential_Drip-irrigated_Plantation_Tree_for_the_American_Southwest_%28poster%29)
- Weindorf, D. and **K.A. Lombard**. Testimony to U.S. Senate Indian Affairs Committee on Gold King Mine Spill Impacts to Agricultural Lands in northwest New Mexico. Washington, D.C. September 16, 2015.
- Deschenie, D., **K.A. Lombard**, S. A.A. Beresford, I. Ornelas, Jesse Jim and M. Bauer. 2015. Where Health and Horticulture Intersect: A Navajo Wellness Collaboration. American Society for Horticultural Sciences. Aug 4-7, 2015. New Orleans, LA.
- Lombard, K.A.**, B. Barnett, R. Arnold. 2015. Tiny Houses for Northwest New Mexico: A Collaboration between San Juan College and the New Mexico State University Agricultural Science Center at Farmington to Demonstrate Sustainable Living. American Society for Horticultural Sciences. Aug 4-7, 2015. New Orleans, LA.
- Lombard, K. A.**, B. LaShell, F.J. Thomas, and A. Beye. 2015. Old Fort/NMSU Variety Trial Updates. 2nd What's Hop'n-Winter Workshop. March 22, 2015. Fort Lewis College, Durango, CO.
- Lombard, K.A.**, and B. Maier, Grapevine Disease and Mitigation. Pesticide Applicators

- Workshop. Farmington, NM. February 5, 2015. About 50 attendees.
- Lombard, K.A.**, and F.J. Thomas. 2015. Four Corners (hops) Production Realities. Hops, grains and craft beer in New Mexico workshop. Questa Village Hall. Questa, NM. January 31, 2015. About 40 attendees.
- \*Benally, P., \*L. Harvey, D. Deschenie, \*J. Zimmerman, **K.A. Lombard**, S.A.A. Beresford, I. Ornelas. 2014. Where health and horticulture intersect: A Navajo wellness collaboration. Preliminary Shiprock, NM results. Society for Advancement of Chicanos and Native Americans in Science (SACNAS) Annual Meeting. October 16-18, 2014. Los Angeles, CA.
- Allen, S. C., M. K. O'Neill, R.F. Heyduck, **K.A. Lombard**, D. Smeal, R.N. Arnold. 2014. Hybrid poplar (*Populus* spp.) provenance trials in a high desert region of New Mexico (2002-2014). National Convention, Society of American Foresters. October 5, 2014. Salt Lake City, UT. (Poster).
- Lombard, K.A.**, B. Maier, F.J. Thomas and others. 2014. Wine Grape Cultivar Performance in the Four Corners Region of New Mexico in 2010-2012. Summer Grape Workshop. August 2, 2014. Los Lunas, NM.
- Lombard, K.A.**, \*K. McCarver, F.J. Thomas, R. Acharya, T. Bates. 2014. What's Hop'pening in Northwest New Mexico? Hops (*Humulus lupulus*) trials summary 2009 to 2014. American Society for Horticultural Sciences. July 28-30, 2014. Orlando, FL.
- Idowu, O. J., **K.A. Lombard**, D. Hyder, A. Ulery. 2014. Indicators of Soil Quality in a Wastewater-Amended Semi-Arid Soil. Innovation in Soil-Based Onsite Wastewater Treatment Conference, ASA-CSSA-SSSA. April 7, 2014. Albuquerque, New Mexico (Proceedings).
- Lombard, K.A.**, and F.J. Thomas. 2014. Four Corners (hops) Production Realities. 1st What's Hop'n-Winter Workshop. Fort Lewis College. Durango, CO. March 22, 2014.
- Lombard, K.A.**, B. Maier, F.J. Thomas and others. 2014. Wine Grape Cultivar Performance in the Four Corners Region of New Mexico in 2010-2012. The 33rd Southwest Wine and Vine Society Annual Meetings. March 7, 2014. Albuquerque, NM.
- Maier, B., **K.A. Lombard**. 2014. Vineyard irrigation: Planning and Layout. The 33rd Southwest Wine and Vine Society Annual Meetings. March 7, 2014. Albuquerque, NM.
- Lombard, K.A.**, B. Maier, F.J. Thomas and others. 2013. Wine Grape Cultivar Performance in the Four Corners Region of New Mexico in 2010-2012. Winter Viticulture Workshop. Dec 19, 2013. Wines of the San Juan, Turley, NM.
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- Lombard, K.A.**, S.A.A. Beresford, I. Ornelas, \*C. Topaha, \*T. Becenti, \*D. Thomas, \*J. Vela. 2013. Healthy Gardens/Healthy Lives: Navajo perceptions of growing food locally to prevent diabetes and cancer. Navajo Nation Human Research Review Board 2013 Conference. Oct. 23-24, 2013. Window Rock, AZ.
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- \*Sutherin, S., **K.A. Lombard**, R. St. Hilaire. 2012. Center for Landscape Water Conservation: An integrated approach to internet-based outreach. American Society for Horticultural Sciences. July 31-Aug 3, 2012. Miami, FL.
- Lombard, K.A.** 2012. Bridging Disciplines: Horticulture and Health (with Hops and Gardens). Integrated Land Management workshop sponsored by Colorado State University and NMSU Cooperative Extension. La Plata County Fairgrounds, March 06, 2012. Durango, CO.
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- \*Thomas, D., **K.A. Lombard**, D. Hyder and \*T. Becenti. 2011. The Grow Box Experiment. Society for Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference. October 27-30, 2011. San Jose, CA.
- \*Lee, L., **K.A. Lombard**, D. Hyder. 2011. Evaluating an Asexual Method for propagating Wolfberry (*Lycium pallidum*). Society for Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference. October 27-30, 2011. San Jose, CA.
- Lombard, K.A.**, S.A.A. Beresford, \*C. Topaha, \*D. Thomas, \*T. Becenti, S. Forster-Cox, and D. Smeal. 2011. Gardening is a way to improve wellness of indigenous peoples of northwest New Mexico: Focus Group Results. 11<sup>th</sup> Biennial Conference for Research on the Colorado Plateau. October 24-27, 2011. Flagstaff, AZ.
- Smeal, D. **K.A. Lombard**, M.K O'Neill, R. Arnold. 2011. Microirrigation on the Colorado Plateau: Research at NMSU's Agricultural Science Center, Farmington, NM. 11<sup>th</sup> Biennial Conference for Research on the Colorado Plateau. October 24-27, 2011. Flagstaff, AZ.
- Allen, S.C., M.K O'Neill, R.F. Heyduck, **K.A. Lombard**, D. Smeal, and R. Arnold. 2011. Growth performance of hybrid polar in a semi-arid zone of the Colorado Plateau: A case study of clone OP-367. 11<sup>th</sup> Biennial Conference for Research on the Colorado Plateau. October 24-27, 2011. Flagstaff, AZ.
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- Smeal, D., **K. Lombard**, M. O'Neill, and R. Arnold. 2010. Chile pepper production in Northwestern New Mexico as related to microirrigation. 20<sup>th</sup> International Pepper Conference. Las Cruces, NM September 12-14, 2010. Abstract pg. 31.
- Lombard K.A.**, S. A.A. Beresford, \*C. Topaha, \*T. Becenti, S.C. Forster-Cox, D. Smeal, and M. O'Neill. 2010. Is gardening feasible for inclusion into a diabetes intervention project



- among a Native American tribe in Northwest New Mexico? American Society for Horticultural Sciences. August 2-September 5, 2010. Palm Desert, CA.
- Smeal, D., **K.A. Lombard**, M.K. O'Neill, and R.N. Arnold. 2010. Scheduling irrigations on drip-irrigated vegetable crops using climate-based coefficients and canopy measurements. August 2 – 5, 2010. American Society for Horticultural Sciences. August 2-September 5, 2010. Palm Desert, CA.
- \*Thomas, D., **K.A. Lombard**. 2010. Project X (for Exercise) Garden: Measuring Energy Expenditures in Small Scale Gardening. Society for Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference. Anaheim, CA. September 30-October 3, 2010. [http://www.sacnas.org/pdfs/Abstract\\_10.pdf](http://www.sacnas.org/pdfs/Abstract_10.pdf) p191
- \*Lee, L., D. Hyder, and **K.A. Lombard**. 2010. Taxonomy and history of *Lycium pallidum*. Society for Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference. Anaheim, CA. September 30-October 3, 2010.
- O'Neill M.K., R.N. Arnold, R. Heyduck, **K.A. Lombard**, and D. Smeal. 2010. Hybrid poplar in arid regions: the case for a versatile clone, OP-367. Sept 20 – 25, 2010. Fifth International Poplar Symposium, International Union of Forest Research Organizations (IFURO). Orvieto, Italy.
- Smeal, D., **K.A. Lombard**, M. O'Neill, and R. Arnold. 2010. Chile pepper production in Northwestern New Mexico as related to microirrigation. 20th International Pepper Conference. Las Cruces, NM. September 12-14, 2010. Abstract pg. 31.
- Lombard, K.A.**, S.C. Forster-Cox, K. Huttlinger, D. Smeal, S. A.A. Beresford, and M. O'Neill. 2009. Gardens for Health: Development of a Model Diabetes Intervention Project among an Indigenous Tribe in Northwest New Mexico. 1<sup>st</sup> All Africa Horticulture Congress. August 31-September 3, 2009. Nairobi, Kenya.
- Lombard, K.A.**, M. O'Neill, R. Heyduck, B. Onken, A. Ulery, J. Mexal, D. Smeal, and R. Arnold. 2009. Composted biosolids as a source of iron for hybrid poplars (*Populus* sp) grown in Northwest New Mexico. 2<sup>nd</sup> World Agroforestry Congress. August 24-28, 2009. Nairobi, Kenya.
- Lombard K.A.**, S. A.A. Beresford, S.C. Forster-Cox, K. Huttlinger, and D. Smeal. 2009. Gardens For Health: Development of a Cancer and Diabetes Intervention among the Navajo. Cancer Health Disparities Conference. May 27-29, 2009. Las Cruces, New Mexico.
- Krenz, J., **K.A. Lombard**. 2009. Where's the beef (coming from)? A case study assessing the role of food rations and incentives in an HIV/AIDS intervention program. Global Health Education Consortium Conference. April 4-5, 2009. Seattle, Washington.
- Huttlinger, K; Forster-Cox, S., **Lombard, K.A.** & Rafelito. 2009. Local Action and Tribal Gardening: March 17-21, 2009. Society for Applied Anthropology, Annual Meeting. Santa Fe, New Mexico.
- Huttlinger, K; Forster-Cox, S., **Lombard, K.A.** & Rafelito. 2008. Tribal gardening activities: A natural & long-standing link to health. December 1-3, 2008. Rural Minority and Multicultural Health Conference. Albuquerque, New Mexico.
- Lombard, K.A.**, M.K. O'Neill, R. Heyduck, B. Onken, A. Ulery, and J. Mexal. 2008. Composted biosolids as a source of iron for hybrid poplars grown in Northwest New Mexico. November 17-19, 2008. The Metropolitan Tree Improvement Alliance (METRIA) 15 Conference: Trees and the Global Environment. Las Cruces, New Mexico.
- Huttlinger, K; Forster-Cox, S., **Lombard, K.A.** & Rafelito. 2008. Navajo/Tribal Gardening Project. October 25-29, 2008. American Public Health Association, Annual Meeting. San Diego, California.
- Smeal, D., M.K. O'Neill, R.N. Arnold, and **K.A. Lombard**. 2008. Crop coefficients for scheduling irrigations on drought tolerant landscapes. WaterSmart Innovations Conference and Expo. October 8-10, 2008. Las Vegas, NV.
- Huttlinger, K; Forster-Cox, S., **Lombard, K.A.** & Rafelito. 2008. Native American/Tribal Gardening Project. October 3, 2008. Faculty Research Day. New Mexico State University. Las Cruces New Mexico.
- Lombard, K.A.**, M.K. O'Neill, R. Heyduck, B. Onken, Renae Pablo, D. Smeal, R.N. Arnold, April Ulery, and J. Mexal. 2008. Evaluation of Field Grown Hybrid Poplar OP-367 after

- Amending with Biosolids. July 29, 2008. Soil and Water Conservation Society (SWCS). Tucson, Arizona.
- Lombard, K.A.** and Rolston St. Hilaire. 2008. Establishing a virtual urban water conservation center. 2008. July 15, 2008. Rio Grande Basin Initiative Annual Meetings. Las Cruces, NM.
- O'Neill, M.K., **K.A. Lombard**, D. Smeal, R.N. Arnold, R. Heyduck, J. Mexal, and B. Onken. 2006. Poplar-based agroforestry in arid/semi-arid regions: opportunities and challenges in a growing world. June 5-9, 2006. Fourth International Poplar Symposium. Organized by the International Union of forestry Research Organizations (IUFRO). Nanjing, China.
- Lombard K.**, M.K. Shukla, A. Ulery, M. O'Neill, B. Onken, and M. Babcock. 2006. Implications of Arid-land Soil Amended with Industrial Byproducts: Impact on Structure and Chemistry. August 2006. WRR Conference, Socorro, NM.
- Lombard, K.A.**, M. O'Neill, and Daniel de Reuck, 2005. Presentation title: Organizational Approaches Leading to Success or Failure in Agricultural Development Projects. Agronomy Society of America Annual International Meeting, Salt Lake City, Utah.
- Mick O'Neill, **K.A. Lombard**, D. Smeal, R. Arnold, and J. Mexal, 2005. Poster title: Opportunities for Hybrid Poplar Production in the Four Corners Region of New Mexico. Agronomy Society of America Annual International Meeting, Salt Lake City, Utah.
- Lombard, K.A.**, M. O'Neill, D. Smeal, R. Arnold, and J. Mexal, 2005. Poster title: Hybrid poplar establishment under harsh environmental and edaphic conditions of the Four Corners Region. The Association for Temperate Agroforestry 9<sup>th</sup> North American Agroforestry Conference, Rochester, Minnesota.
- O'Neill, M., D. Smeal, R. Arnold, **K.A. Lombard** and J. Mexal, 2004. Poster Title: Establishment of hybrid poplar in semi-arid Temperate Zones. The 1<sup>st</sup> World Agroforestry Congress, Orlando, Florida.
- O'Neill, M., J. Mexal, and **K.A. Lombard**, 2003 Poster Title: Establishment of hybrid poplar under drip irrigation in the semi-arid Four Corners region. New Mexico State University All College Conference, Las Cruces, NM.
- Lombard, K.A.**, E.B. Peffley and E. Geoffriau, 2000. Presentation Title: Quercetin in onion (*Allium cepa* L.) after thermal processing and comparison of quantification by spectrophotometer and high performance liquid chromatography (HPLC). The 3<sup>rd</sup> International Symposium on Edible Alliaceae. The University of Georgia.
- Lombard K.A.**, E.B. Peffley and E. Geoffriau, 2000. Presentation Title: Quantification of quercetin in onion (*Allium cepa*) after domestic processing. American Society of Horticultural Sciences Southern Regional Conference, Lexington, KY.

### **WORKSHOPS AND TECHNOLOGY TRANSFER**

- Lombard, K.A. and others. 2013 What's Hop'n: An online (mostly) symposium on hops (*Humulus* sp.) production and marketing in the Four Corners Region and New Mexico. Three Rivers Brewery Conference Center. Farmington, NM. July 12-13, 2013. Available at: <http://aces.nmsu.edu/hch/hopsresearch.html>
- Lombard, K.A., S. Sutherin, and R. St. Hilaire and others. 2012. Southwest Plant Selector iOS app for iPhone and iPad (<https://itunes.apple.com/us/app/southwest-plant-selector/id526449181?mt=8>). Leverages smart-phone technology to disseminate plant selection information to a state-wide/regional audience.
- Lombard, K.A., S. Sutherin, and R. St. Hilaire. 2011. The Center for Landscape Water Conservation at [www.xericenter.com](http://www.xericenter.com), [www.youtube.com/xericenter](http://www.youtube.com/xericenter), [www.facebook.com/xericenter](http://www.facebook.com/xericenter), [www.picasaweb.google.com/xericenter](http://www.picasaweb.google.com/xericenter), and iTunes U on the NMSU channel under Southwest Yard and Garden. All associated sites are linked together. A QR Code drives smartphone users to our website. YouTube video hits have exceeded 50,000 since 2011. These technologies together drive user traffic and user adoptions of water-wise landscape practices.

## RESEARCH SUPPORT

<b>Lombard, K.A.</b> , S. A.A. Beresford and others	09/01/2016 - 08/31/2018
FHCRC/NMSU U-54 Cooperation/NIH	Role: Co-Principal Investigator
<i>Engaging School and Family in Navajo Gardening for Health</i>	
<b>Lombard</b> and others	2015 - 2016
New Mexico Department of Agriculture	Role: Principal Investigator
<i>Demonstrating specialty hops (<i>Humulus lupulus</i> L. and <i>H. lupulus</i> var. <i>neomexicanus</i>) and harvest tools for expanding production in New Mexico</i>	
Lombard, Ulery, and Weindorf	2015
NMSU Agricultural Experiment Station/NRCS	Role: Principal Investigator
<i>Emergency response to the Gold King Mine Spill – Agriculture Lands</i>	
LaShell, Beye, <b>Lombard</b> , and Godin	2015 - 2017
Colorado Specialty Crops Block Grant	Role: Co-investigator
<i>Evaluating high altitude production of hops varieties and creating grower alliances to assist with production and marketing.</i>	
Bauer and <b>Lombard</b> and others	11/01/2014 - 2016
USDA NIFA	Role: Co-Principal Investigator
<i>An Intervention to Promote Navajo Gardening, Nutrition and Community Wellness.</i> Research proposes to evaluate the effectiveness of community based-programs to enhance the capacity for and frequency of family gardening in selected Navajo communities, in the context of health promotion through enhanced vegetable consumption and increased physical activity.	
<b>Lombard, K.A.</b> and M. Patrick	11/01/2014 - 06/30/2015
Northwest New Mexico Council of Governments	Role: Co-Principal Investigator
<i>Sheep Spring Communities Garden.</i> Building on research and extension efforts to increase access to fresh fruits and vegetables in Navajo communities.	
<b>Lombard, K.A.</b> , S. A.A. Beresford and others	2013 - 2016
FHCRC/NMSU U-54 Cooperation/NIH	Role: Co-Principal Investigator
<i>Where Health and Horticulture Intersect: A Navajo Wellness Collaboration.</i> Objectives: Design a cancer/diabetes/livelihoods intervention on the Navajo Nation.	
Miller, <b>Lombard</b> , Uchanski, and others	2013 - 2014
New Mexico Department of Agriculture	Role: Co-Investigator
<i>Engaging New Mexico Youth in Digital Media Promotion of Specialty Crops &amp; Farming.</i> Objective: Leverage You-Tube videos to engage New Mexico new and young farmers	
Daye, Benally, and <b>Lombard</b>	09/2013 - 08/2016
USDA/NIFA Tribal Colleges Research Grants Program	Role: Co-investigator
<i>Liver Toxic Plant Effects in Livestock of Eastern Navajo.</i> Examine the prevalence of alkaloid containing plants in the Eastern Agency and provide Navajo Technical College students research opportunities.	

<b>Lombard</b> , Henning and Acharya,	2012 - 2013
New Mexico Department of Agriculture	Role: Principal investigator
<i>Enhancing Hops (Humulus lupulus L.) Production in New Mexico.</i> Continue to evaluate the agronomic, and market potential of hops production in New Mexico. Educate growers on opportunities and challenges to hops production.	
LaShell, Beye, <b>Lombard</b> , and Godin	2012 - 2015
Colorado Specialty Crops Block Grant	Role: Co-investigator
<i>Analyzing hops varieties for high altitude production and alternative marketing schemes.</i>	
<b>Lombard</b>	07/01/2009 - 2014
Hatch Act Formula Grant	Role: Principal investigator
<i>Improved Viticulture and Specialty Horticultural Crop Systems for the San Juan River Valley of Northwest New Mexico.</i> Objectives: Expand specialty horticultural crop research in San Juan county. Supplements viticulture, hops, Asian medicinal and gardens for health projects.	
Bauer and <b>Lombard</b>	11/01/2011 - 2012
USDA NIFA	Role: Co-Investigator
<i>Navajo Gardening, Nutrition and Community Wellness.</i> This proposal describes a community-based participatory research project to gather community assessment data to plan interventions to promote wellness through gardening and nutrition in the Navajo Nation	
Unc, Ulery, and <b>Lombard</b>	05/19/2010 - 04/31/2012
BHP Billiton	Role: Co-investigator
<i>Non-Specific Microbial Symbionts Inoculation and Plant Fitness for Remediation of Surface Coal Mining Sites.</i> Objectives were to examine plant fitness/establishment on reclaimed mine sites.	
<b>Lombard</b> and St. Hilaire	10/01/2008 - 07/30/2013
Rio Grande Basin Initiative	Role: Principal investigator
<i>Establishing a Virtual Urban Landscape Water Conservation Center.</i> Objectives were to support the dissemination of academic and applied research needed to increase knowledge about urban landscape management and water conservation techniques in NM, west TX, and southern CO.	
<b>Lombard</b> and Martin	06/01/2010 - 12/31/2011
Western Center for Risk Management Education	Role: Principal investigator
Award amount \$46,201	
<i>Risk management education in Southwestern medicinal herb production, processing and Marketing.</i> An educational program to help growers manage risks associated with producing and marketing Southwestern medicinal herbs.	
<b>Lombard</b> and Beresford	09/01/2008 - 08/31/2011
NIH FHCRC/NMSU U-54 Cooperation	Role: Principal investigator
<i>Gardens For Health: Development of an Intervention Model for the Prevention or Management of Diet Related Illness Among the Navajo.</i> Integrating horticulture and public health to improve livelihoods and wellness of Navajo people.	
Spencer, Gruel, Biernacki, <b>Lombard</b> and others	12/2009 - 04/2011
2009 Clean Energy Demo. Program Grant	Role: Co-investigator
<i>Center for Workforce Training Green Sustainability Courses and Outdoor</i>	

<i>Learning Center</i> – Community Demonstration Garden components. Objectives: Expand the learning and outreach capabilities of the San Juan College Outdoor Learning Center.	
<b>Lombard</b>	Role: Principal -investigator
San Juan College	2008 - present
<i>Memorandum of Understanding Between San Juan College and NMSU.</i> Establishes the framework for joint appointment with NMSU and San Juan College.	
<b>Lombard, Henning, Pablo, Acharya</b>	06/01/2009 - 05/31/2010
New Mexico Department of Agriculture	Role: Principal investigator
<i>Feasibility of Hops (Humulus lupulus L.) Production in the Four Corners Region of New Mexico.</i> Objectives are to examine cultivation, post-harvest chemistry and full-scale production potential of hops for regional beer brewer market needs.	
<b>Polatty and Lombard</b>	09/01/08 - 08/31/2009
San Juan Regional Medical Center	Role: Co-investigator (Sub-contract)
<i>The Bloomfield Senior Citizens Center Grant.</i> The project established a base group for a study on the effects of diet and exercise for diabetic clients of the Bloomfield Senior Citizens Center.	
<b>Martin and Lombard</b>	07/01/2008 - 06/30/2009
Western Center for Risk Management Education	Role: Co-investigator
<i>Risk management education in Asian medicinal herb production, processing and Marketing.</i> Educational program for growers to manage risks of producing and marketing Asian herbs.	
<b>Huttlinger, Forster-Cox, and Lombard</b>	12/01/2007 - 06/30/2008
Southwest Partnership Center	Role: Co-investigator
<i>Native American/Tribal Gardening Project:</i> Objectives: Assess gardening and food preference in a Navajo group.	