

Curriculum vitae

Leonardo Lombardini

Department of Horticultural Sciences

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Education

Doctor of Philosophy, Michigan State University, Dec. 1999

Major: Horticulture

Dissertation: Lombardini, L. 1999. Response of apple rootstocks to drought: mechanisms of resistance and their monitoring. Ph.D. dissertation. Michigan State University, East Lansing, MI. p. 166

Laurea (equivalent to Bachelor of Science + Master of Science), Università degli Studi di Firenze, Italy, July 1993

Major: Forestry

GPA: 29.1/30, final grade: 110/110 *magna cum laude*

Dissertation: Lombardini, L. Risposte morfo-fisiologiche di semenzali di *Pinus halepensis* Mill. sottoposti a stress idrico ('Morpho-physiological responses of *Pinus halepensis* Mill. seedlings in drought stress conditions'). Università degli Studi di Firenze, Florence, Italy. p. 155

Employment History

2008-present	Associate Professor	Texas A&M University <i>Department of Horticultural Sciences</i> Interdepartmental/intercollegiate affiliation: <i>Molecular and Environmental Plant Sciences (MEPS)</i>
2002-2008	Assistant Professor	Texas A&M University <i>Department of Horticultural Sciences</i> Interdepartmental/intercollegiate affiliation: <i>Molecular and Environmental Plant Sciences (MEPS)</i>
1999-2002	Post-doctorate	Tree Fruit Res. Ext. Center, Washington State University
1995-1999	Research Assistant	Michigan State University
1994-1995	Research Associate	Università di Pisa, Italy
1993-1994	Research Associate	National Research Council, Italy
1985-1993	Graduate Assistant	Università di Firenze, Italy

Position Description

Tenure-track, 12-month appointment (36% research, 64% teaching). The minimum qualification for this position is a Ph.D in Horticulture or related area with a strong background in plant physiology and biochemistry. Knowledge of human nutrition is desirable. The research responsibilities are to develop a basic and applied research program focused on the needs of the pecan industry. This includes: 1) Lead multidisciplinary research teams including extension specialists, geneticists, pathologists, entomologists, pomologists, biochemists, and physiologists whose goals include improving management approaches in the areas of water use efficiency, crop load management, light management in established orchards, control of viviparity, pest/disease control, and other cultural practices. 2) Cooperate with USDA-ARS Pecan Breeding Program in developing and refining field methods and molecular genetic techniques for selection of improved pecan cultivars. 3) Coordinate and work closely with the established multidisciplinary team of researchers in the fields of horticulture, medicine and human nutrition in the study of the nutritional benefits associated with pecan consumption. Teaching responsibilities include teaching a minimum of one course per semester on pecan/nut production, plant nutrition, plant physiology, and/or related subjects. A successful candidate must develop an aggressive program that includes actively pursuing extramural funding, advising graduate students, and publishing research findings in appropriate peer reviewed and industry-focused journals and publications.

Teaching (64% appointment)

Different courses taught		Number	
Undergraduate courses		6	
Graduate courses		3	

Undergraduate Courses	Title	Credit Hours	Semester Taught [†]	Personal Evaluations Average	Dept. Evaluations Average
HORT 418	Nut Culture	3	2003A	4.40	4.46
HORT 489	International Horticulture	3	2004A	4.58	4.30
HORT 400	Horticultural Perspectives (Study Abroad)	1	2004B	n/a	n/a
HORT 319	Fruit and Nut Production	3	2004C	4.24	4.38
HORT 418	Nut Culture	3	2005A	4.93	4.40
HORT 418	Nut Culture	3	2007A	4.84	4.48
HORT 489	International Horticulture	3	2008A	4.83	4.54
HORT 489	International Horticulture (Study Abroad)	3	2008B	4.95	4.53
HORT 418	Nut Culture	3	2009A	4.62	4.49
HORT 489	Introduction to International Study	1	2010A	n/a	n/a

HORT 489	Cultivating Global Leaders in Agriculture	1	2010A	4.85	4.50
HORT 440	International Horticulture	3	2010A	4.88	4.50
HORT 440	International Horticulture (Study Abroad)	3	2010B	4.67	n/a
HORT 418	Nut Culture	3	2011A	4.86	4.43
HORT 489	Cultivating Global Leaders in Agriculture	1	2011A	4.86	4.43
HORT 440	International Horticulture	3	2012A	??	4.66
HORT 489	Agricultural Leaders without Borders	1	2012A	??	4.57
HORT 440	International Horticulture (Study Abroad)	3	2012B	4.95	n/a
HORT 225	Hort Learning Community	1	2012C	TBA	4.81
HORT 489	Introduction to Italian Horticulture and Culture	3	2013A	TBA	TBA

Graduate

Courses

Title

HORT 601	Nutrition of Hortic. Plants	4	2003C	4.87	4.44
HORT 689	Physiological and Molecular Basis for Plant Stress Response	3	2003C	4.53	4.44
HORT 601	Nutrition of Hortic. Plants	4	2005C	4.91	4.59
HORT 689	Physiological and Molecular Basis for Plant Stress Response	3	2005C	4.76	4.59
HORT 690	Theory of Research	1	2006A	4.88	4.48
HORT 689	Physiological and Molecular Basis for Plant Stress Response	3	2006C	4.05	4.42
HORT 610	Physiological and Molecular Basis for Plant Stress Response	3	2008C	4.71	4.56
HORT 604	Applied Physiology of Horticultural Crops	3	2009C	4.72	4.43
HORT 610	Physiological and Molecular Basis for Plant Stress Response	3	2010C	4.88	4.50
HORT 604	Applied Physiology of Horticultural Crops	3	2011C	4.86	4.56
HORT 610	Physiological and Molecular Basis for Plant Stress Response	3	2012C	??	4.75

HORT 689	Physiological and Molecular Basis for Plant Stress Response (Lab)	1	2012C	??	4.63
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[†] A = Spring, B = Summer, C = Fall

Professional Internship, Special Problem, and Research courses supervised

<i>Course</i>	<i>Title</i>	<i>Total number of students</i>	<i>Semester</i>
HORT 484	Professional Internship	120	2003-present
HORT 485	Special Problem	12	2004-present
HORT 491	Research	7	2007-present
Total number of students supervised		139	

Guest lectures, undergraduate courses

<i>Course</i>	<i>Title</i>	<i>Semester[†]</i>
AGLS 105	Res. Agric. Life Sci. for Honor Students	2003A, C-2008A, C
HORT 101	Introductory Horticulture	2003A, C-present
HORT 319	Fruit and Nut Production	2005C-present (every other fall)
HORT 423	Tropical Horticulture	2005C-present (every other fall)
ITAL 489	Introduction to Italian Culture	2005C
MEPS 313	Introduction to Plant Physiology	2009A
BEFB 476	Bilingual Education in the Content Areas	2010A, 2012C
ALED 289	Cultural Theory and Adaptation	2011A

Guest lectures, graduate courses

<i>Course</i>	<i>Title</i>	<i>Semester</i>
HORT 690	Theory of Research	2003C
MEPS 681	Graduate Seminar	2004C
ALEC 645	Initiating, Managing, and Monitoring Projects of International Agricultural Development	2012A, 2013A

Direction of Undergraduate Students

- Served as advisor for six undergraduate students for their research project (HORT 485, and HORT 491).
- Prepared students of the Horticulture Club for the judging competition of the Southern Region and National Meetings of the American Society for Horticultural Sciences since 2004.

- Served as advisor for two exchange students from France (HORT 485) and for two exchange students from Spain (HORT 491).
- Served as Department's Internship/Job coordinator since 2003, which involves supervising and advising 15-30 students every year.

Direction of Graduate Students

- Mentor to three graduate students (Madhulika Sagaram, Vivek Sharma, and Gayathri Chadalapaka) to get certified with the TAMU Graduate Teaching Academy.

Graduate Committees

<i>Type of committee</i>	<i>Chair/Co-Chair</i>	<i>Committee Member</i>	<i>Total</i>
Ph.D.	3	19	22
M.S.	10	11	21
M.Agr.	1	2	3
M.Ed.	0	1	1
Total	14	33	47

Chair or Co-Chair:

1. **Cassandra Warren. M.S. student. Project TBD.**
2. **Facundo Ibanez. Ph.D. student. Co-Chair: L. Cisneros-Zevallos.**
3. **Zainab Mansur. M.S. student. Horticultural Sciences. Project on quality of Pawnee pecans as influenced by postharvest conditions.**
4. **Paige Graves. M.S. student. Horticultural Sciences. Project on nitrogen fertilization and root growth. Co-Chair: Dr. A. Volder.**
5. **Hayley M. Hannah. 2013. M.S. Horticultural Sciences. Aligning root growth with phenology in pecans. Co-Chair: Dr. A. Volder.**
6. Will Cody. M.S. student. Student transferred to another department.
7. Gokcen Dogan. M.S. Horticultural Sciences. Project on alternative grafting methods in pecans. Student dropped out due to husband's job relocation.
8. Ana G. Ortiz-Quezada. 2010. M.S. Food Science and Technology. Characterization of phenolic compounds from pecan kernels and their biological activities on adipogenesis and inflammation. Co-Chair: L. Cisneros-Zevallos.
9. Ratnaprabha. Ph.D. Project to study the applicability of chemical thinners for crop load manipulation in pecan. Student dismissed for lack of performance after 3 years.
10. Anais Carrillo. M.S. Cultivating Global Leaders: Enhancing participation in undergraduate experiential learning opportunities for minorities. Student suspended her degree for personal reasons after 1 year.
11. Madhulika Sagaram. 2007. Ph.D. MEPS. Variation in ecogeographical traits of pecan cultivars and provenances.
12. J. Emilio Villarreal Lozoya. 2006. M.S. Cultivar and E-beam irradiation effects on phytochemical content and antioxidant properties of pecan kernels. Co-Chair: L. Cisneros-Zevallos.

13. Byron T. Whisnant. M.S. Project on irrigation scheduling in pecan orchards using a soil water balance model. Student suspended his degree to serve in the military.
14. M. Dustin Salopek. 2003. M. Ag. Options for pecan orchard management in New Mexico and the effect of zinc adjuvants and time of day on zinc absorption. Co-Chair: G. McEachern.

Committee Member:

1. Akshata Kulkarni. M.S. student, Horticultural Sciences. Project: TBD. Chair: B. Patil.
2. David Vanderpool. M.S. student. Agricultural Leadership, Education, & Communications. Project TBD. Chair: G. Briers.
3. Heather Salopek. M.Ag. student, Horticultural Sciences. International marketing opportunities for pecans. Chair: J. Zajicek.
4. Jose Perez. Ph.D. student, Horticultural Sciences. Identification and purification of bitter melon (*Momordica charantia* Linn.) molecules and their biological properties. Chair: B. Patil.
5. Xiaoya 'Amy' Cai. Ph.D. student. Horticultural Sciences. Earth-Kind rose responses to drought and salt stress. Chair: T. Starman.
6. Ann Sultemeier. M.Ed student. Agricultural Leadership, Education, & Communications. Project: TBD. Chairs: J. Ripley and L. Lockett.
7. Clayton Lewis. M.S. student Soil & Crop Sciences. Project TBD on maize. Chair: T. Cothren.
8. Kevin Fath. M.S. student. Agricultural Leadership, Education, & Communications. Project TBD. Chair: G. Wingenbach.
9. Priyanka Chaudhary. Ph.D. student, Horticultural Sciences. Postharvest treatment effects on bioactive compounds of grapefruit. Chair: B. Patil.
10. Alexis White. M.S. student. Soil & Crop Sciences. Student suspended her degree. Chair: T. Cothren.
11. Holly Leggette. 2013. Ph.D. Agricultural Leadership, Education, & Communications. A model to augment critical thinking and create knowledge through writing in the social sciences of agriculture. Chair: T. Rutherford.
12. M'Randa Sandlin. 2013. Ph.D. Agricultural Leadership, Education, & Communications. Consumer and industry professional perceptions of the farming industry in Trinidad and Tobago. Chair: J. Lindner.
13. Yuan Chen. 2013. Ph.D. MEPS. Effect of 1-MCP on cotton plants under abiotic stress. Chair: T. Cothren.
14. Mark Harris. 2012. M.Ag. Agricultural Leadership, Education, & Communications. Beyond the Great Debate: Practical action to increase food security. Chair: T. Murphrey.
15. Ram Uckhoo. 2012. Ph.D. Horticultural Sciences. Analytical and isolation methods of phytochemicals in citrus fruits and their effect by production systems and processing. Chair: B. Patil.
16. Ali Annon. 2012. M.S. Horticultural Sciences. Overexpression of tobacco osmotin protein in carrot (*Daucus carota* L.) to enhance drought tolerance. Chair: K. Crosby.
17. Isin Karagoz. 2012. Ph.D. Food Engineering. Safety assurance of pecans by irradiation without a detrimental effect on quality. Chair: E. Castell.

18. Chris Chammoun. 2012. M.S. Agricultural Economics. Economic value of native and improved pecan. Chairs: M. Palma and J. Outlaw
19. Alison Bingham. 2012. M.S. Horticultural Sciences. Substrate moisture conditioning effects on growth and shelf life of *Angelonia angustifolia*. Chair: T. Starman.
20. Timothy Silberg. 2011. M.S. Agricultural Leadership, Education, & Communications. A study of sustainable compost micro-enterprises in Chimaltenango, Guatemala: Profitability and employee characteristics. Chair: T. Murphrey.
21. Kasey Miller. 2011. M.S. Agricultural Leadership, Education, & Communications. Students' perceptions of international agriculture after an international agricultural experience. Chair: T. Rutherford.
22. Andrew Cartmill. 2011. Ph.D. Horticultural Sciences. Effect of warming and precipitation on soil respiration and mycorrhizal abundance in post oak savanna. Chair: A. Volder.
23. Sheetal Rao. 2011. Ph.D. MEPS. Elucidation of mechanisms of salinity tolerance in *Zoysia matrella* cultivars – A study of structure and function of salt glands. Chair: M. Binzel.
24. Amit Vikram. 2011. Ph.D. Horticultural Sciences. Citrus bioactive compounds: Isolation and their effect on bacterial quorum sensing and biofilm formation. Chair: B. Patil.
25. Vladimir da Costa. 2010. Ph.D. Soil & Crop Sciences. Abiotic stress effects on physiological, agronomic and molecular parameters of 1-MCP treated cotton plants. Chair: T. Cothren.
26. Alma R. Solis Perez. 2009. Ph.D. Horticultural Sciences. Characterizing salinity tolerance in greenhouse roses. Chairs: R. Cabrera and M. Arnold.
27. Donita Bryan. 2008. Ph.D. Horticultural Sciences. Influence of planting depth on landscape establishment of container-grown trees. Chair: M. Arnold.
28. Eli Moore. 2008. M.S., Agricultural Economics. An economic evaluation of the effectiveness of the Texas pecan checkoff program. Chair: G. Williams.
29. Joshua Bynum. 2008. Ph.D., Soil & Crop Sciences. Physiological applications for determining water use efficiency among cotton genotypes. Chair: T. Cothren.
30. Tomas Martinez-Trinidad. 2007. Ph.D., Forest Science. Effects of carbohydrate applications on growth and vitality of live oak (*Quercus virginiana*). Chair: T. Watson.
31. Basavaraj Girennavar, 2007. Ph.D., Horticultural Sciences. Grapefruit drug interaction: isolation and biological activity of furocoumarins and their variation due to season, varieties, processing and irradiation. Chair: B. Patil.
32. Geoff Denny. 2007. Ph.D., Horticultural Sciences. Evaluation of selected provenances of *Taxodium distichum* for drought, alkalinity and salinity tolerance. Chair: M. Arnold.
33. Marcia Vizzotto. 2005. Ph.D., Horticultural Sciences. Anticarcinogenic and antioxidant activity of crude extract and fractions of selected peach and plum genotypes. Chairs: L. Cisneros and D. Byrne.
34. Leah N. Hundley. 2004. M.S. Soil & Crop Sciences. Physiological assessment of foliar imidacloprid treatments on cotton. Chair: T. Cothren.

Additional Teaching Activities

Internship Coordinator (2003-present). Responsibilities for such position have included:

- Holding 1-2 internship orientations meeting in fall and spring of each year.
- Serving as departmental liaison for internship contacts.

- Serving as advisor for one student enrolled in HORT 485 (Special Problem) during the Spring Semester to help organize the annual departmental Career Fair.
- Helping the Academic Advisor arrange for on-campus interviews for internships by industry organizations.
- Helped Dr. Hiler (former Chair of the Ellison's International Floriculture Chair) organize and coordinate the Internship Workshop held for industry representatives on Mar. 8, 2006.
- Assisting students in locating organizations and processing paperwork for internship.
- Following up with interns while away on internship and dealing with potential problems.
- Coordinating intern presentations each fall semester after internships and grading internship reports.
- Revised HORT 484 Internship Packet (originally authored by Dr. M. Arnold) and posting forms and other HORT 484 material on the web (<http://aggie-horticulture.tamu.edu/internship/index.html>).
- Developed online training course and quiz to inform prospective students about the departmental policy about the internship program. The course and quiz are available online on the HORT 484 website.
- Serving as departmental contact for coop programs.

Job Coordinator (2003-present). Responsibilities for such position have included:

- Helped Dr. Dan Lineberger in the development and maintenance of Aggies-for-hire online database (<http://aggies-for-hire.tamu.edu>) to allow employers upload employment opportunities and students to check employment opportunities.
- Maintained the Aggies-for-hire website and entered job offers that the department and the faculty received. Since the website was developed in September 2003, over 1200 positions have been listed on the website.
- Helped Academic Advisor arrange for on-campus interviews for jobs by industry organizations.
- Arranged for on-campus interviews of students.

Web-based teaching tools:

- Modified content and structure for HORT 418 (Nut Culture) to develop it into a Writing Intensive ('W') course. The 'W' approval for the course was received on April 18, 2006 and the new "W" course was first taught in Spring 2007, and again in 2009 and 2011.
- Developed websites for all the courses taught. Course websites were first developed from the ground up using HTML language then using elearning portals, such as WebCT and Moodle.
- Implemented the use of websites such as www.turnitin.com to prevent plagiarism. Turnitin.com was successfully used for Nut Culture class.

Self-Improvement:

- Participated in several training classes (HTML, Adobe Dreamweaver, Adobe Photoshop, WebCT Vista, Camtasia, etc.) for faculty, offered by either Computing & Information Services or Instructional Technology Services.

Research (36% appointment)

Authored publications

<i>Type of publication</i>	<i>Senior Author</i>	<i>Co-Author</i>	<i>Total</i>
Refereed journal articles (published, in press or accepted)	4	29	33
Book chapters	1	1	2
Non-peer, editor-reviewed articles	4	1	5
Conference proceedings	5	3	8
Abstracts	19	25	44
TCE/TAEX publications	3	0	3
Popular press articles (written by Dr. Lombardini)	2	3	5
Popular press articles (written by others)	n/a	8	8
Total	38	70	108

Refereed journal articles, published, in press, or accepted for publication

(Underlined authors indicate student advised as chair or committee member)



This above graph shows the number of times the articles below have been cited in each of the last 15 years. Articles with citation data: 60; Sum of the times cited: 422. Graph generated with Google Scholar (<http://scholar.google.com>)

1. Gucci R., L. Lombardini, M. Tattini. 1997. Analysis of leaf water relations in leaves of two olive (*Olea europaea*) cultivars differing in tolerance to salinity. *Tree Physiol.* 17:13-21.
2. Gucci R., G. Aronne, L. Lombardini, M. Tattini. 1997. Salinity tolerance in *Phillyrea* species. *New Phytol.* 135: 227-234.
3. Tattini M., L. Lombardini, R. Gucci . 1997. The effect of NaCl stress and relief on gas exchange properties of two olive cultivars differing in tolerance to salinity. *Plant Soil* 197:87-93.
4. Elfving D.C., L. Lombardini, J.R. McFerson, S.R. Drake, D.F. Faubion, T.D. Auvil, G. Van Ee, D.B. Visser. 2002. Effects of directed applications of prohexadione-calcium to tops of mature pear trees on shoot growth, light penetration, pruning and fruit quality. *J. Amer. Pomolog. Soc.* 57:45-57.
5. Lombardini L., M. Harris, and D.M. Glenn. 2005. Effects of particle film application on leaf gas exchange, water relations, nut yield, and insect populations in mature pecan trees. *HortScience.* 40:1376-1380.
6. Thompson T.E., L.J. Grauke, and L. Lombardini. 2005. 'Waco' pecan. *HortScience* 40:2207-2208.
7. Starman, T. And L. Lombardini. 2006. Growth, gas exchange, and chlorophyll fluorescence of four ornamental herbaceous perennials during water deficit conditions. *J. Amer. Soc. Hort. Sci.* 131: 469-475.
8. Lombardini L. 2006. One-time pruning of pecan trees induced limited and short-term benefits in canopy light penetration, yield and nut quality. *HortScience* 41:1469-1473.
9. Arnold M.A., G.V. McDonald, D.L. Bryan, G.C. Denny, W.T. Watson and L. Lombardini. 2007. Below-grade planting adversely affects survival and growth of tree species from five different families. *Arboric. Urban Forest.* 33:64-69.
10. Villarreal J.E., L. Lombardini, and L. Cisneros-Zevallos. 2007. Phytochemical constituents and antioxidant capacity of different pecan [*Carya illinoensis* (Wangenh.) K. Koch] cultivars. *Food Chem.* 102:1241-1249.
11. Sagaram M., L. Lombardini, and L.J. Grauke. 2007. Variation in leaf anatomy of pecan [*Carya illinoensis* (Wangenh.) K. Koch] cultivars from three ecogeographic locations. *J. Amer. Soc. Hort. Sci.* 132:1-5.

12. Lombardini L., T.M. Waliczek, and J.M. Zajicek. 2008. Consumer knowledge of nutritional attributes of pecans and factors affecting purchasing behavior. *HortTechnology*. 18:481-488.
13. Martinez-Trinidad T., W.T. Watson, M.A. Arnold, and L. Lombardini. 2009. Investigations of exogenous applications of carbohydrates on the growth and vitality of live oaks. *Urban For. Urban Gree*. 8:41-48.
14. Lombardini L., H. Restrepo-Diaz, and A. Volder. 2009. Photosynthetic light response and epidermal characteristics of sun and shade pecan leaves. *J. Amer. Soc. Hort. Sci.* 134:1-7. **Second most read article published in the Journal of ASHS in July 2009.**
15. Martinez-Trinidad T., W.T. Watson, M. Arnold, L. Lombardini, and D.N. Appel. 2009. Carbohydrate injections as a potential option to improve growth and vitality of live oaks. *Arboric. Urban Forest*. 35:142-147.
16. Martinez-Trinidad T., W.T. Watson, M. Arnold, and L. Lombardini. 2009. Temporal and spatial glucose and starch partitioning in live oak. *Arboric. Urban Forest*. 35:63-67.
17. Malik N.S.A., J.L. Perez, L. Lombardini, R. Cornacchia, L. Cisneros-Zevallos, J. Bradford. 2009. Phenolic compounds and fatty acid composition of organically grown pecan kernels. *J. Sci. Food Agric*. 89:2207-2213.
18. Villarreal Lozoya J.E., L. Lombardini, and L. Cisneros-Zevallos. 2009. Electron beam irradiation effects on phytochemical constituents and antioxidant capacity of pecan kernels [*Carya illinoensis* (Wangenh.) K. Koch] during storage. *J. Sci. Food Agric*. 57:10732-10739.
19. Wood B.W., L. Lombardini, and R.J. Heerema. 2009. Influence of aminoethoxyvinyl-glycine on pecan fruit retention. *HortScience*. 44:1884-1889.
20. Moore E., G. Williams, M. Palma, and L. Lombardini. 2009. Effectiveness of state-level pecan promotion programs: The case of the Texas pecan checkoff program. *HortScience*. 44:1914-1920. **Eighth most read article published in HortScience in Dec. 2009.**
21. Bryan D.L., M.A. Arnold, A. Volder, W.T. Watson, L. Lombardini, J.J. Sloan, L.A. Valdez-Aguilar, and A.D. Cartmill. 2010. Planting depth during container production and landscape establishment affects growth of *Ulmus parvifolia*. *HortScience*. 45:1-7. **Eighth most read article published in HortScience in Jan. 2010.**
22. Bryan D.L., M.A. Arnold, A. Volder, W.T. Watson, L. Lombardini, J. Sloan, L.A. Valdez-Aguilar, and A.D. Cartmill. 2010. Transplant season, irrigation, and planting depth effects on landscape establishment of bald cypress and sycamore. *Arboric. Urban Forest*. 36: 57-65.
23. Restrepo-Díaz H., J.C. Melgar, and L. Lombardini. 2010. Ecophysiology of horticultural crops: An overview. *Agron. Colomb*. 28:71-79.
24. Sagaram, M., L. Lombardini, and L.J. Grauke. 2011. Variation in anatomical characteristics in leaves of pecan seedstocks from Mexico and the United States. *J. Amer. Soc. Hort. Sci.* 136:103-108.
25. Bryan D.L., M.A. Arnold, A. Volder, W.T. Watson, L. Lombardini, J. Sloan, A. Alarcón, L.A. Valdez-Aguilar, and A.D. Cartmill. 2011. Planting depth and soil amendments affect growth of *Quercus virginiana* Mill. *Urban For. Urban Gree*. 10:127-132.

26. Ojeda-Barrios D., J. Abadía, L. Lombardini, A. Abadía, and S. Vázquez. Zinc deficiency in field-grown pecan trees: Changes in leaf nutrient concentrations and structure. 2012. J. Sci. Food Agr. 92:1672-1678.
27. Cai, X., T. Starman, G. Niu, C. Hall, and L. Lombardini. 2012. Response of selected garden roses to drought stress. HortScience 47:1050-1055.
28. Honaker, J., S. Skrivanek, J. Lopez, D. Martin, L. Lombardini, L.J. Grauke, and M. Harris. 2013. Blackmargined aphid (*Monellia caryella* (Fitch); Hemiptera: Aphididae) honeydew production in pecan and implications for managing the pecan aphid complex in Texas. Southwest. Entomol. 38:19-32.
29. Lombardini, L., A. Volder, M.L. Nesbitt, and D.L. Cartmill. 2013. Consequences of injury caused by *Cameraria caryaefoliella* (Lepidoptera: Gracillariidae) on pecan gas exchange and chlorophyll fluorescence. J. Amer. Soc. Hort. Sci. 138:1-4.

Book chapters

1. Lombardini, L. 2006. Ecophysiology of plants in dry environments, p. 47-65. In: P. D'Odorico and A. Porporato (eds.). Dryland Ecohydrology. Springer, Dordrecht, The Netherlands.
2. Ortiz-Quezada A.G., L. Lombardini, and L. Cisneros-Zevallos. 2010. Pecan nuts: Pecan nut cultivars and antioxidant activity, p.881-889. In: V.R. Preedy, R.R. Watson, and V. Patel (eds.). Nuts and seeds in health and disease prevention. Academic Press.

Peer-reviewed journal articles

1. Lombardini L., J.A. Flore, J.D. Everard, M. Tattini . 1997. Study of growth analysis, water relations, gas exchange, and carbon partitioning in one plum species during water stress and relief. Proc. VI International Symposium on Integrating Canopy, Rootstocks and Environmental Physiology in Orchard Systems. B.H. Barritt and F. Kappel (eds). Acta Hortic. 451: 361-368.
2. Lombardini L., M. Toselli, J.A. Flore. 2001. Carbon translocation and root respiration in potted apple trees during conditions of moderate drought. Proc. VII International Symposium on Orchard and Plantation Systems. J.W. Palmer and J.N.Wünsche (eds). Acta Hortic. 557:413-419.
3. Lombardini L., H.W. Caspari, D.C. Elfving, T.D. Auvil, and J.R. McFerson. 2004. Gas exchange and water relations in 'Fuji' apple trees grown under deficit irrigation. Acta Hort. 636:43-50.
4. Wünsche J.N., L. Lombardini, and D.H. Greer. 2004. 'Surround' particle film applications – Effects on whole canopy physiology of apple. Acta Hort. 636:565-571.
5. Lombardini L., J.E. Villarreal, and L. Cisneros-Zevallos. 2009. Antioxidant properties and fatty acid composition of pecan kernels. Acta Hort. 841:91-96.

Conference proceedings

1. Lombardini L. Fisiología y efecto de poda. XI Simposium Internacional Nogalero. Torreón, Coah. Mexico. Aug. 14-16, 2003.
2. Lombardini L. Fotosíntesis y poda en nogales. 1º Ciclo de Conferencia da nogalero a nogalero. Allende, Coah. Mexico. 22 Nov. 2003

3. Lombardini L. Aplicación nitrogenada y oportuna en nogal. XII Simposium Internacional Nogalero. Torreón, Coah. Mexico. Aug. 12-14, 2004.
4. Lombardini L. Preliminary results from two different hedging programs. 4th National Pecan Workshop. Branson, MO. June 5-6, 2005.
5. Lombardini L. Fertilización y nutrición del nogal pecanero. Memorias 10^o Dia del Nogalero. Ciudad Delicias, Chih., Mexico. Aug. 30-31, 2006.
6. Bryan, D.L., M.A. Arnold, A. Volder, L. Lombardini, W.T. Watson, J.J. Sloan, and A.D. Cartmill. 2009. Overview of selected studies on the influence of planting depth on landscape establishment of container-grown trees. In: The landscape below ground III: Proceedings of an International Workshop on Tree Root Development in Urban Soils. Lisle, IL, Oct. 6-8, 2008. Watson, G.W., L. Costello, B. Scharenbrock, and E. Gilman (Eds.). International Society for Arboriculture, Champaign, IL. Pp. 126-130.
7. Silberg, T.R., T.P. Murphrey, G. Wingenbach, and L. Lombardini. 2012. Exploring profitability of compost micro-enterprises in Chimaltenango, Guatemala: A strategy for international development. J. Int. Ag. Ext. Ed. 19:57-58.
8. Silberg, T.R., T.P. Murphrey, G. Wingenbach, and L. Lombardini. 2012. An examination of employee characteristics within compost micro-enterprises in Chimaltenango, Guatemala: Factors that facilitate success. J. Int. Ag. Ext. Ed. 19:180-182.
9. Silberg, T.R., T.P. Murphrey, G. Wingenbach, and L. Lombardini. 2012. An examination of employee characteristics within compost micro-enterprises in Chimaltenango, Guatemala: Factors that facilitate success. Proceedings of the 28th Annual Conference of the Association for International Agricultural and Extension Education, Nakorn Pathom Province, Thailand, May 21-24, 2012.
10. Silberg, T.R., T.P. Murphrey, G. Wingenbach, and L. Lombardini. 2012. Exploring profitability of compost micro-enterprises in Chimaltenango, Guatemala: A strategy for international development. Proceedings of the 28th Annual Conference of the Association for International Agricultural and Extension Education, Nakorn Pathom Province, Thailand, May 21-24, 2012.

Scientific Abstracts and papers of scholarly presentations

(Underlined authors indicate student advised as chair or committee member)

<i>Type of presentation</i>	<i>Total</i>
Scientific Abstracts	45
Conferences and Symposia	48
Seminars	11
Total	104

Scientific Abstracts

1. Gucci R., L. Lombardini, M. Tattini. Changes in water relation parameters in leaves of olive (*Olea europaea* L.) during salinity stress and relief. 92nd ASHS Conference. Montreal, Québec, Canada. July 30-Aug. 2, 1995.
2. Lombardini L., J.A. Flore, J.D. Everard, M. Tattini. Study of growth analysis, water relations, gas exchange, and carbon partitioning in one plum species during water stress

and relief. 6th ISHS Symposium on Integrating Canopy, Rootstock and Environmental Physiology in Orchard Systems. Wenatchee, WA/Penticton, BC, Canada. July 17-25, 1996.

3. Lombardini L., M. Falusi, R. Calamassi, J.A. Flore. Morpho-physiological responses of *Pinus halepensis* Mill. Seedlings to drought stress. 93rd ASHS Conference. Lexington, KY. Oct. 6-10, 1996.
4. Lombardini L., M. Toselli, J.A. Flore. Use of ¹³CO₂ as a tool to investigate carbon partitioning in field and greenhouse-grown apple trees. 94th ASHS Conference. Salt Lake City, Utah. July 23-26, 1997.
5. Lombardini L., M. Toselli, J.A. Flore. Variation of nitrogen absorption and carbon partitioning in field-grown apple trees during the growing season. 95th ASHS Conference. Charlotte, NC. July 12-15, 1998.
6. Lombardini L., J.A. Flore. Canopy temperature and water stress in young apple trees subjected to water deficit. 96th ASHS Conference. Minneapolis, MN. July 28-31, 1999.
7. Lombardini L., M. Toselli, J.A. Flore. Carbon translocation and root respiration in potted apple plants during conditions of moderate drought (Poster). 7th ISHS International Symposium on Orchard and Plantation System. Nelson, New Zealand. Jan. 30-Feb. 5, 2000.
8. Wünsche J.N., L. Lombardini L., D.H. Greer, J.W. Palmer. 'Surround' particle film applications – the effect on whole canopy physiology of apple. National Agriculture/ Hort. Sci. Convention, Lincoln Univ., Canterbury, New Zealand. June 27-29, 2001.
9. Lombardini L., Elfving D.C., McFerson J.R. Effects of crop load and Surround WP application on whole canopy photosynthesis and fruit quality characteristics in apple trees. 98th ASHS Conference. Sacramento, CA. July 22-25, 2001.
10. Lombardini L., H.W. Caspari, D.C. Elfving, J.R. McFerson. Gas exchange and water relations in 'Fuji' apple trees grown under deficit irrigation. 26th ISHS Congress. Toronto, Ontario, Canada. Aug. 11-17, 2002.
11. Caspari H.W., T. Einhorn, S. Neal, P. Alspach, B.G. Leib, Lombardini L., McFerson J.R. Irrigation volumes rather than placement determines response of apple trees to deficit irrigation. 26th ISHS Congress. Toronto, Ontario, Canada. Aug. 11-17, 2002.
12. McFerson J.R., T.R. Schmidt, L. Lombardini. Chemical bloom thinners for conventional and organic apple orchards (Poster). 26th ISHS Congress. Toronto, Ontario, Canada. Aug. 11-17, 2002.
13. Wünsche J.N., L. Lombardini, D.H. Greer, J.W. Palmer, A.B. Woolf. 'Surround' particle film applications – the effect on whole canopy physiology of apple (Poster). 26th ISHS Congress. Toronto, Ontario, Canada. Aug. 11-17, 2002.
14. Lombardini L., M.D. Glenn, and M.K. Harris. Consequences of the application of kaolin-based particle film on leaf gas exchange, light interception, and population of natural enemies in pecan trees (Poster). 63rd ASHS-SR Meeting. Mobile, AL. Feb. 1-3, 2003.
15. Caspari H., T.C. Einhorn, L. Lombardini, B.G. Leib, T. Auvil, J.R. McFerson, P.K. Andrews. Progress in the development of partial rootzone drying of apple trees. IV International Symposium on Irrigation of Horticultural Crops. Davis, CA. Sept. 1-5, 2003.

16. Lombardini L., M.D. Glenn, and M.K. Harris. Application of kaolin-based particle film on pecan trees: consequences on leaf gas exchange, stem water potential, nut quality, and insect populations. 101st ASHS Conference. Austin, TX. July 17-20, 2004.
17. Villarreal J.E., L. Lombardini, and L. Cisneros-Zevallos. Phenolic content and antioxidant activity in different pecan cultivars. 65th ASHS-SR Meeting. Little Rock, AR, Feb. 5-7, 2005.
18. Whisnant B.T. and L. Lombardini. Effects of pruning time on light interception and fruit quality in pecan trees. 65th ASHS-SR Meeting. Little Rock, AR. 5-7 Feb. 2005.
19. Villarreal J.E., L. Lombardini, and L. Cisneros-Zevallos. Antioxidant profile and contribution to quality and nutritional attributes of different pecan cultivars. 102nd ASHS Conference. Las Vegas, NV. July 17-22, 2005.
20. Bryan D.L., W.T. Watson, L. Lombardini, J.J. Sloan, A.D. Cartmill, G.C. Denny, M.A. Arnold. Short-term responses of live oak to planting depth and soil amendment (Poster). 102nd ASHS Conference. Las Vegas, NV. July 17-22, 2005.
21. Denny G.C., W.T. Watson, L. Lombardini, W.A. Mackay, A.R. Solis-Perez, D.L. Bryan, M.A. Arnold. Provenance affects growth of *Taxodium distichum* in containers (Poster). 102nd ASHS Conference. Las Vegas, NV. July 17-22, 2005.
22. Villarreal J.E., L. Cisneros-Zevallos and L. Lombardini. Polyphenol profile, antioxidant properties and irradiation effects on pecan kernels. 2nd International Conference on Polyphenols and Health. Davis, CA. Oct. 4-7, 2005.
23. Martinez-Trinidad T., W.T. Watson, M.A. Arnold, D.N. Appel and L. Lombardini. Temporal and spatial carbohydrate partitioning in live oak (Poster). 82nd International Society of Arboriculture Annual Conference and Trade Show. Minneapolis, MN. July 31-Aug. 2, 2006.
24. Villarreal J.E., L. Lombardini, and L. Cisneros-Zevallos. E-Beam irradiation induced minor changes in phytochemical content and antioxidant capacity of pecan kernels (Poster). 103rd ASHS Conference. New Orleans, LA. July 26-31, 2006.
25. Sagaram M., L. Lombardini, and L.J. Grauke. Variation in leaf anatomical traits of pecan cultivars. 103rd ASHS Conference. New Orleans, LA. July 26-31, 2006.
26. Lombardini L., L. Cisneros-Zevallos, and A. Kader. International curriculum on post-harvest technology – An excellent opportunity for horticulture students to expand their knowledge, skills and cultural horizons. 67th ASHS-SR Meeting. Mobile, AL. Feb.3-5, 2007.
27. Sagaram M., L. Lombardini, and L.J. Grauke. Variation in leaf ecophysiological traits of pecan provenances. 67th ASHS-SR Meeting. Mobile, AL. Feb. 3-5, 2007.
28. Lombardini L., T.M. Waliczek, and J.M. Zajicek. Consumer preferences and knowledge of nutritional attributes of pecans (Poster). 104th ASHS Conference. Scottsdale, AZ. July 16-19, 2007.
29. Figueroa Viramontes U., M.d.C. Medina Morales, L. Lombardini, and M.P. Rodríguez. Efectos de la aplicación de sulfato de magnesio en el rendimiento y la calidad de la nuez pecanera. XII Congreso Nacional de la Sociedad Mexicana Ciencias Hortícolas, Zacatecas, Zacatecas, Mexico. Aug. 14-17, 2007.

30. Lombardini L., J.E. Villarreal, and L. Cisneros-Zevallos. Antioxidant properties and fatty acid composition of pecan kernels. FAVHealth – 2nd International Symposium on Human Health Effects of Fruits and Vegetables. Houston, TX. Oct. 9-13, 2007.
31. Lombardini L. Production considerations : Fruits, berries, nuts. 2nd European Short Course: Quality and innovation of the fresh-cut produce. Cordoba, Spain. Mar. 10-12, 2008
32. Lombardini L., H. Restrepo Diaz, and A. Volder. Morphological and photosynthetic characteristics of sun and shade pecan leaves. 105th ASHS Conference. Orlando, FL. July 21-24, 2008.
33. Sagaram M., L. Lombardini, and L.J. Grauke. Variation in anatomy and carbon isotope discrimination in leaves of pecan populations from Mexico and the United States. 105th ASHS Conference. Orlando, FL. July 21-24, 2008.
34. Ortiz-Quezada A.G., L. Lombardini, and L. Cisneros-Zevallos. Identification of tannins from pecan kernels by liquid chromatography-mass spectrometry. 69th ASHS-SR Meeting. Atlanta, GA. Jan. 31-Feb 2, 2009.
35. Lombardini L. Challenges, stratagems, and gratification of teaching a study abroad course in horticulture to non-major students. 69th ASHS-SR Meeting. Atlanta, GA. Jan. 31-Feb 2, 2009.
36. Restrepo-Diaz H., L. Lombardini, and A. Volder. Caracterización morfológica y fisiológica de hojas de luz y de sombra en nogal pecanero. Congreso Ibérico de Ciencias Hortícolas. Logroño, Spain. May 25-29, 2009.
37. Ortiz Quezada A.G., L. Lombardini, L. Cisneros-Zevallos, F.A. Tomás-Barberán. Identification of condensed and hydrolysable tannins in pecan [*Carya illinoensis* (Wangenh.) K. Koch] kernels using a HPLC-ESI-MS ion trap system. Institute of Food Technologists Annual Meeting. Anaheim, CA. June 5-10, 2009.
38. Lombardini L., A. Volder., and H. Restrepo-Diaz. Water relations and net carbon assimilation rate response in two commonly used pecan rootstocks. 106th ASHS Conference. St. Louis, MO. July 25-28, 2009.
39. Lombardini L. And G.J. Wingenbach. Cultivating global leaders in agriculture: A successful attempt to create international learning experiences for students in agriculture. 71st ASHS-SR Meeting. Corpus Christi, TX. Feb 5-7, 2011.
40. Hannah H.M., A. Volder, and L. Lombardini. Evaluating the effects of nitrogen fertilization rates on growth and gas exchange in young pecan seedlings. 71st ASHS-SR Meeting. Corpus Christi, TX. Feb 5-7, 2011.
41. Lombardini L. and G. Wingenbach. Cultivating global leaders in agriculture: A successful effort to engage agriculture students through international learning experiences (Poster). NACTA/DOCE Conference. University of Alberta, Edmonton, Canada, June 14-18, 2011.
42. Luckett M., C. Shane, L. Lombardini, and G. Wingenbach. From classroom to reality: Global leadership engagement in Guatemala and Costa Rica (Poster). NACTA/DOCE Conference. University of Alberta, Edmonton, Canada, June 14-18, 2011.
43. Holt, P., R. Collett, S. Alvis, C. Velezmoro Sanchez, S. Vargas Winstanley, G. Wingenbach, L. Lombardini, M. Piña Jr., and G. Briers. Identifying research capacities at the Universidad Nacional Agraria-La Molina (Poster). World Conference on Sustainable Value Chain

Agriculture for Food Security and Economic Development. Windhoek, Namibia. July 3-7, 2011.

44. Cai, X., T. Starman, G. Niu, C. Hall, L. Lombardini, and K. Eixmann. Response of selected Earth-Kind® rose cultivars to drought stress (Poster). 107th ASHS Conference. Waikoloa, HI, Sept. 25-28, 2011.
45. Crosby, K., A. Annon, L. Lombardini, and K. Rathore. *Agrobacterium*-mediated genetic transformation of carrot (*Daucus carota*) with a tobacco osmotin gene. 107th ASHS Conference. Waikoloa, HI, Sept. 25-28, 2011.
46. Sandlin, M., T.P. Murphrey, K. Dooley, J. Lindner, L. Lombardini, and D. Lineberger. Extending the International Experience into the Horticulture Classroom: The Creation and Use of Reusable Learning Objects (RLOs). 73rd ASHS-SR Meeting. Orlando FL, TX. Feb 2-5, 2013.
47. Bielecki, C., C. Velezmoro Sanchez, M. Navarro, L. Lombardini, G. Briers, and G. Wingenbach. Impact analysis and evaluation of a capacity building project in Peru: Increasing the teaching and research competencies of selected faculty. Annual Conference of the Association for International Agricultural and Extension Education (AIAEE). Fort Worth, TX, May 19-23, 2013.

Conferences and Symposia

1. Lombardini, L. Whole plant photosynthesis: a sensitive technique to study the effects of cultural practices on growth and productive capacity of apple trees (Poster). 95th Meeting Wash. State Hort. Assn. Wenatchee, WA. Dec. 6-8, 1999.
2. Elfving D.C., D. Faubion, T.J. Smith, L. Lombardini, D.B. Visser. Apogee™ effects on apple and pear (Poster). 95th Meeting of the Wash. State Hort. Assn. Wenatchee, WA. Dec. 6-8, 1999.
3. Lombardini L., D.C. Elfving, L.E. Schrader, J.R. McFerson. Effects of particle films on whole-canopy photosynthesis and fruit quality of 'Fuji'/M.26 apple trees (Poster). 96th Meeting Wash. State Hort. Assn. Yakima, WA. Dec. 3-6, 2000.
4. Lombardini L., D.C. Elfving, J.R. McFerson. Effects of crop load and Surround WP application on whole-canopy photosynthesis and fruit quality characteristics of apple trees (Poster). 96th Meeting Wash. State Hort. Assn. Yakima, WA. Dec. 3-6, 2000.
5. Beers E.H., L. Lombardini, F.J. Peryea, D.C. Elfving, L.E. Schrader, J. Dunley, S. Welter, S. Drake, J.R. McFerson. The interaction of mite feeding and water stress on apple photosynthesis and productivity: preliminary results (Poster). 96th Meeting Wash. State Hort. Assn. Yakima, WA. Dec. 3-6, 2000.
6. Lombardini L., T.R. Schmidt, J.R. McFerson. Effects of chemical bloom thinners on the photosynthetic efficiency of apple and crabapple trees (Poster). 97th Meeting Wash. State Hort. Assn. Wenatchee, WA. Dec. 3-5, 2001.
7. Lombardini L., H.W. Caspari, J.R. McFerson. Gas exchange and water relations in 'Fuji' apple trees grown under deficit irrigation (Poster). 97th Meeting Wash. State Hort. Assn. Wenatchee, WA. Dec. 3-5, 2001.
8. Beers E.H., L. Lombardini L., F.J. Peryea, D.C. Elfving, L.E. Schrader, J. Dunley, S. Welter. Whole canopy photosynthesis measurements of apple trees affected by herbivores and

- water stress (Poster). 97th Meeting Wash. State Hort. Assn. Wenatchee, WA. Dec. 3-5, 2001.
9. Lombardini L. Pecan research at Texas A&M. 81st Texas Pecan Growers Assn. Annual Conference. Waco, TX. June 30-July 3, 2002.
 10. Lombardini L. Current Directions in Pecan Research – A Year into Perspective. 82nd Texas Pecan Growers Assn. Annual Conference. Midland, TX. July 13-16, 2003.
 11. Lombardini L. Fisiología y efecto de poda. XI Simposium Internacional Nogalero. Torreón, Coah. Mexico. Aug. 14-16, 2003.
 12. Lombardini L. Fotosíntesis y poda en nogales. 1^o Ciclo de Conferencia da nogalero a nogalero. Allende, Coah. Mexico. 22 Nov. 2003
 13. Lombardini L. Pecan Research at Texas A&M – An update. 83rd Texas Pecan Growers Assn. Annual Conference. San Antonio, TX. July 11-14, 2004.
 14. Lombardini L. Aplicación nitrogenada y oportuna en nogal. XII Simposium Internacional Nogalero. Torreón, Coah. Mexico. Aug. 12-14, 2004.
 15. Lombardini L. Using irradiation to reduce the risk of insect and microbial contamination. What we know and where we are going. Mid-Winter Meeting of the National Pecan Shellers Assn. Houston, TX. Feb.17-19, 2005.
 16. Villarreal J.E., L. Lombardini, and L. Cisneros-Zevallos. Phenolic content and antioxidant activity in different pecan cultivars. Mid-Winter Meeting of the National Pecan Shellers Assn. Houston, TX. Feb.17-19, 2005.
 17. Lombardini L. Preliminary results from two different hedging programs. 4th National Pecan Workshop. Branson, MO. June 5-6, 2005.
 18. Villarreal J.E., D. Ojeda, L. Cisneros-Zevallos and L. Lombardini. Phenolic HPLC- profile and nutraceutical potential of pecan kernels (Poster). 4th National Pecan Workshop. Branson, MO. June 5-6, 2005
 19. Lombardini L. Different approaches to deal with tree crowding. 84th Texas Pecan Growers Assn. Annual Conference. Austin, TX. July 17-20, 2005.
 20. Lombardini L. So you think you want an intern? Texas Nursery and Landscape Assn. Expo. Dallas, TX. Aug. 18-21, 2005
 21. Lombardini L. And U. Figueroa. Effect of electronic pasteurization on nutritional properties and shelf-life of pecan kernels. Symposium on research outcomes by principal investigators. Texas A&M University Center in Mexico, Mexico City, Oct. 4-7, 2005.
 22. Honacker J., M.K. Harris, and L. Lombardini. IPM considerations in managing pecan aphids. Entomology Science Conference. College Station, TX. Oct. 26-28, 2005.
 23. Sagaram, M. And L. Lombardini. Variation in leaf anatomical traits of pecan cultivars (Poster). Ag. Conference. College Station, TX. Jan. 9-12, 2006.
 24. Lombardini L. Poda de nogales. 3er Ciclo de Conferencias Internacionales de Nogalero a Nogalero del Estado de Coahuila. Saltillo, Coah., Mexico. Mar. 31-Apr. 1, 2006.
 25. Lombardini L. Pruning research progress. 40th Annual Western Pecan Growers Association Conference. Las Cruces, NM. Mar. 5-7, 2006.
 26. Lombardini L. Fertilización y nutrición del nogal pecanero. Foro de Manejo de la fertilización en nogal pecanero. Torreón, Coah., Mexico. May 17, 2006.

27. Lombardini L. and S. Searcy. Water use issues for irrigated pecan production. 85th Texas Pecan Growers Assn. Annual Conference. Frisco, TX. July 9-12, 2006.
28. Sagaram, M. And L. Lombardini. Studying leaf eco-physiological traits to understand water needs of different pecan cultivars and provenances. 85th Texas Pecan Growers Assn. Annual Conference. Frisco, TX. July 9-12, 2006.
29. Villarreal J.E., L. Lombardini, and L. Cisneros-Zevallos. Nutritional properties of pecans and consequence of the use of electronic irradiation. 85th Texas Pecan Growers Assn. Annual Conference. Frisco, TX. July 9-12, 2006.
30. Villarreal J.E., L. Lombardini, and L. Cisneros-Zevallos. Compuestos antioxidantes en la nuez, efectos de la pasteurización electrónica y almacenado. XIV Simposium Internacional Nogalero. Torreón, Coah. Mexico. Aug. 10-11, 2006.
31. Lombardini L. Fertilización y nutrición del nogal pecanero. Día del Nogalero. Ciudad Delicias, Chih., Mexico. Aug. 30-31, 2006.
32. Lombardini L. Consumer preferences and knowledge of nutritional attributes of pecans. 86th Texas Pecan Growers Assn. Annual Conference. Corpus Christi, TX. July 15-18, 2007.
33. Lombardini L, M. Sagaram, and L.J. Grauke. Morphological and physiological characteristics of pecan populations from Mexico. 86th Texas Pecan Growers Assn. Annual Conference. Corpus Christi, TX. July 15-18, 2007.
34. Lombardini L. Poscosecha en nogales. 5º Ciclo de Conferencias Internacionales de Nogalero a Nogalero del Estado de Coahuila. Saltillo, Coah., Mexico. Mar. 7-8, 2008.
35. Lombardini L., H. Restrepo-Diaz, and A. Volder. Morphological and photosynthetic characteristics of sun and shade pecan leaves. 87th Texas Pecan Growers Assn. Annual Conference. The Woodlands, TX. July 13-15, 2008.
36. Ratnaprabha and L. Lombardini L. Chemical thinning in pecans – A promise for crop load management? 87th Texas Pecan Growers Assn. Annual Conference. The Woodlands, TX. July 13-15, 2008.
37. Ortiz-Quezada, A.G., L. Lombardini L., and L. Cisneros-Zevallos. Phytochemical content and antioxidant capacity of pecan kernels. 87th Texas Pecan Growers Assn. Annual Conference. The Woodlands, TX. July 13-15, 2008.
38. Petrak, M., L. Lombardini L., and D. Wilkerson. User-friendly Internet tools to integrate soil and weather data with pecan production. 87th Texas Pecan Growers Assn. Annual Conference. The Woodlands, TX. July 13-15, 2008.
39. Lombardini L. Light management in pecan orchards. 43rd Annual Western Pecan Growers Association Conference. Las Cruces, NM. Mar. 1-3, 2009.
40. Lombardini L., A. Volder, and H. Restrepo Diaz. Water relations and net carbon assimilation rate response in two commonly used pecan rootstocks. 5th National Pecan Research & Extension Scientists Meeting. Ardmore, OK. May 27-29, 2009.
41. Lombardini L., M. Sagaram, and L.J. Grauke. Variation in anatomy and carbon isotope discrimination in leaves of pecan populations from Mexico and the United States. 5th National Pecan Research & Extension Scientists Meeting. Ardmore, OK. May 27-29, 2009.
42. Lombardini L. Manejo de luz y carga de cosecha en huertas de nogal para reducir la alternancia y maximizar la calidad de la nuez. X Seminario Internacional de Nogal Pecanero. Hermosillo, Sonora, Mexico. Aug. 13-14, 2009.

43. Lombardini L. Aclareo mecánico y alternancia de producción. 2º Dia del Nogalero en el Valle del Guadiana. Durango, Dgo. Mexico. Nov. 10, 2009.
44. Lombardini L. Poda de nogales. 2º Dia del Nogalero en el Valle del Guadiana. Durango, Dgo. Mexico. Nov. 10, 2009.
45. Hannah H.M., L. Lombardini, and A. Volder. Aligning root growth with phenology in pecans. 89th Texas Pecan Growers Assn. Annual Conference. San Marcos, TX. July 11-14, 2010.
46. Ortiz Quezada A.G., L. Lombardini, and L. Cisneros-Zevallos. Pecans as potential source of health-promoting compounds: Progress and preliminary results. 89th Texas Pecan Growers Assn. Annual Conference. San Marcos, TX. July 11-14, 2010.
47. Lombardini L. Pecan (and hickory) production in China. 45th Annual Western Pecan Growers Association Conference. Las Cruces, NM. Mar. 6-8, 2011.
48. Lombardini L., A. Volder, M. Nesbitt, and D. Bryan. Structural and physiological damage caused by leaf miners in pecan. 90th Texas Pecan Growers Assn. Annual Conference. Frisco, TX. July 10-13, 2011.
49. Hannah H.M., A. Volder, and L. Lombardini. Growth and photosynthesis of young pecan seedlings in response to different nitrogen fertilization rates. 91st Texas Pecan Growers Assn. Annual Conference. San Marcos, TX. July 15-18, 2012.
50. Graves P., H.M. Hannah, L. Lombardini, and A. Volder. Comparing nitrogen treatment effects on pecan seedling root growth. 91st Texas Pecan Growers Assn. Annual Conference. San Marcos, TX. July 15-18, 2012.
51. Lombardini L. Fertilizante nitrogenado en huertas de nogal. Segundo Foro Internacional Jimenez 2012. Jimenez, Chih., Mexico. Sept. 21-22, 2012.
52. Graves P., H.M. Hannah, L. Lombardini, and A. Volder. Effect of nitrogen application rate on pecan seedling root growth. 92nd Texas Pecan Growers Assn. Annual Conference. Bryan, TX. July 14-17, 2013.
53. Graves P., H.M. Hannah, L. Lombardini, and A. Volder. Seasonal patterns of root production in pecan seedlings. I International Symposium on Pecans and Other *Carya* in Indigenous and Managed Systems. College Station, TX, July 17-20, 2013.
54. Ojeda-Barrios D.L., J. Abadia, L. Lombardini, A. Abadia, and S. Vazquez. Zinc deficiency in field-grown pecan trees: Changes in leaf nutrient concentration and structure. I International Symposium on Pecans and Other *Carya* in Indigenous and Managed Systems. College Station, TX, July 17-20, 2013.

Seminars

1. Lombardini L. Moving the Texas pecan industry forward: Future challenges in research. Horticulture Seminar Series, Department of Horticultural Sciences, Texas A&M University. Apr. 3, 2003.
2. Lombardini L. Italy, Horticultural perspectives – Account of a Study Abroad Experience. Horticulture Seminar Series, Department of Horticultural Sciences, Texas A&M University. Nov. 4, 2004
3. Lombardini L. The pecan research program at Texas A&M University. Department of Agriculture, University of Belgrade. Belgrade, Serbia. May 29, 2006.

4. Lombardini L. Research and Education at the Department of Horticulture at Texas A&M University. Department of Sciences of Productions, Engineer, Mechanics and Economics Applied to Agro- and Zootechnical Systems, University of Foggia. Foggia, Italy. July 4, 2006.
5. Lombardini L., L. Cisneros-Zevallos, P. Shillings, and A. Churak. International curriculum on post-harvest technology: An excellent opportunity for horticulture students to expand their knowledge, skills and cultural horizons. Horticulture Seminar Series, Department of Horticultural Sciences, Texas A&M University. Oct. 5, 2006.
6. Lombardini L. Conducting pecan research at TAMU: Overview of five years of accomplishments and challenges. Horticulture Seminar Series, Department of Horticultural Sciences, Texas A&M University. Oct. 4, 2007.
7. Lombardini L. And L. Cisneros-Zevallos. International curriculum on post-harvest technology: Student exchange experiences at European Universities. Horticulture Seminar Series, Department of Horticultural Sciences, Texas A&M University. Nov. 15, 2007.
8. Lombardini L. Using the Santa Chiara, Italy, campus for Study Abroad. Borlaug Institute Seminar #39. Texas A&M University. Oct. 23, 2008.
9. Lombardini L. Cultivation techniques of pecan. Research Institute of Subtropical Forestry (Chinese Academy of Forestry). Jande, China. Sept. 22, 2010.
10. Lombardini L. Going Nuts: Future Directions and Strategies for Pecan Research at Texas A&M. Horticulture Seminar Series, Department of Horticultural Sciences, Texas A&M University. Mar. 3, 2011.
11. Lombardini L. Directions and Strategies for Pecan Research at Texas A&M. College of Agriculture and Veterinary Medicine. Jima University. Jima, Ethiopia. Sept. 27, 2011.
12. Lombardini L. Italian gardens through time. Theresa and Les Reeves Lecture Series. Stephen F. Austin State University. Nacogdoches, TX. Apr. 18, 2013

AgriLife Research and AgriLife Extension publications

(Underlined authors indicate student advised as chair or committee member)

1. Lombardini, L. And M. D. Salopek. 2003. Photosynthetic characteristics of pecan and their importance to pecan production. In: L.A. Stein and G.R. McEachern (eds.). Texas pecan handbook. Vol. II. Texas Agr. Ext. Serv., College Station, TX.
2. Lombardini, L. 2007. Photosynthesis and pecan production. In: L.A. Stein and G.R. McEachern (eds.). Texas pecan handbook. Texas Agr. Ext. Serv., College Station, TX
3. Lombardini, L. 2007. Alternate bearing in pecan. In: L.A. Stein and G.R. McEachern (eds.). Texas pecan handbook. Texas Agr. Ext. Serv., College Station, TX.
4. Lombardini, L. 2012. Photosynthesis and pecan production. In: M. Nesbitt and L.A. Stein (eds.). Texas pecan handbook. Texas AgriLife Extension, College Station, Texas.
5. Lombardini, L. 2012. Alternate bearing in pecan. In: M. Nesbitt and L.A. Stein (eds.). Texas pecan handbook. Texas AgriLife Extension, College Station, Texas.

Popular press articles

(Underlined authors indicate student advised as chair or committee member)

Written by Dr. Lombardini:

1. Lombardini, L. 2004. NOGATEC provides forum for Mexico's producers. Pecan South 37 (7): 24-25
2. Thompson, T.E., L. J. Grauke, and L. Lombardini. 2005. 'Waco' pecan suitable for the Western U.S. Pecan South 38 (1): 4-8
3. Lombardini, L. 2005. Pecan scientists gather in Branson for National workshop. Pecan South 38 (5): 26
4. Villarreal, J. E. and L. Lombardini. 2006. Pecans, a rich source of antioxidants. Pecan South 39 (8): 29-31
5. Harris, M., B. Ree, T. Fuchs, and L. Lombardini. Pecan aphids, prophylactic pesticide use and IPM, an essay. 2007. Pecan South 40 (5):26-28.

Written by others:

1. Phillips, K. 2006. Texas horticulture students win science honors at national meeting. Aug. 23. AgNews.
<http://agnewsarchive.tamu.edu/dailynews/stories/HORT/Aug2306a.htm> .
2. Duffield White, J. 2006. Perennial notes – Drought performers and Echinacea advice. Growertalks. Sept. 70 (9)
3. Bounds Socol, K. 2007. Altered states. Alianzas en Investigación. Vol.1, No. 1. P. 13-17.
4. Phillips, K. 2007. Worldwide summit on fruits, vegetables unite medical, agricultural researchers. Oct. 11. AgNews.
<http://agnewsarchive.tamu.edu/dailynews/stories/HORT/Oct1107a.htm>.
5. Phillips, K. 2007. Giving thanks for pecans all year long. Nov. 1.
<http://agnews.tamu.edu/showstory.php?id=157>
6. Krehbiel, E. 2007. Pecans abundant for feasts. The Bryan-College Station Eagle. 23 Nov. p. A12.
7. Phillips, K. 2009. Getting to the root of science in a nutty way. May 27.
<http://agnews.tamu.edu/showstory.php?id=1219>
8. Anonymous. 2009. Pecan leaves' photosynthetic light response evaluated. Nov. 4.
http://www.redorbit.com/news/science/1780168/pecan_leaves_photosynthetic_light_response_evaluated/

Grants received

<i>Type, Institution</i>	<i>Number</i>	<i>Total amount</i>	<i>To my program</i>
Research, Competitive, Wash. State Univ.	3	\$183,148	\$183,148
Research, Competitive, TAMU (external)	20	\$5,037,409	\$731,477
Research, Competitive, TAMU (internal)	6	\$89,223	\$51,623
Teaching, Competitive, TAMU (internal)	3	\$5,250	\$5,000
Program revenue		\$89,097	\$89,097
Total	32	\$5,404,127	\$1,060,345

Research funding obtained while at Washington State University

<i>Title, Year, P.I., Institution</i>	<i>Total amount</i>	<i>To program</i>
1. Whole-canopy photosynthesis: a sensitive technique to study the effects of cultural practices on growth and productive capacity of apple trees. 1999. L. Lombardini. Washington Tree Fruit Res. Commission.	\$44,450	\$44,450
2. Whole-canopy photosynthesis: a sensitive technique to study the effects of cultural practices on growth and productive capacity of apple trees. 2000. L. Lombardini. Washington Tree Fruit Res. Commission.	\$56,412	\$56,412
3. Whole-canopy photosynthesis: a sensitive technique to study the effects of cultural practices on growth and productive capacity of apple trees. 2001. L. Lombardini. Washington Tree Fruit Res. Commission.	\$82,286	\$82,286
Total	\$183,148	\$183,148

Research funding obtained from sources external to Texas A&M University

<i>Title, Year, P.I., Institution</i>	<i>Total amount</i>	<i>To program</i>
1. Consequences of the application of Surround WP on leaf gas exchange, water relations, light interception, nut quality and insect populations in pecan trees. 2002. USDA-ARS.	\$8,232	\$8,232
2. Using heat-pulse technique to monitor transpiration in pecan trees under reduced irrigation conditions. 2003. TX Water Research Institute.	\$8,566	\$8,566
3. Travel support. 2003. Texas Pecan Growers Assn.	\$1,600	\$1,600
4. Screening ornamental flowering landscape plants for water use efficiency 2003. Texas Ornamental Enhancement Endowment. (co-PI: T. Starman)	\$3,500	\$1,750
5. Antioxidant activity of pecan kernels as affected by cultivar and storage conditions. 2004. USDA – ‘Designing food for health’. (co-PI: L. Cisneros-Zevallos)	\$28,343	\$28,343
6. Irrigation scheduling in pecan orchards using a soil water balance model. 2005. TWRI-TWDB. (co-PI: B. Basso).	\$9,732	\$9,732
7. Antioxidant and fatty acid content of pecan cultivars during storage. 2005. USDA – ‘Designing food for health’. (co-PI: L. Cisneros-Zevallos)	\$27,900	\$27,900
8. Quantification and identification of tannins in pecan	\$30,975	\$30,975

kernels. 2006. USDA – ‘Designing food for health’. (co-PI: L. Cisneros-Zevallos)		
9. Variation in leaf eco-physiological traits of pecan provenances. 2006. USDA National Plant Germplasm System (NPGS).	\$16,585	\$16,585
10. Evaluation of ReTain Plant Growth Regulator to increase nut set and fruit retention in pecans. 2006. L. Lombardini. Valent BioSciences Corp.	\$5,000	\$5,000
11. Investigating the nutritional properties of pecans. 2007-08. Salopek Foundation. (co-PI: L. Cisneros-Zevallos)	\$15,000	\$15,000
12. Investigating the nutritional properties of pecans. 2007-08. Texas Pecan Growers Assn. (co-PI: L. Cisneros-Zevallos)	\$15,000	\$15,000
13. Investigating the nutritional properties of pecans. 2007-08. Texas Pecan Board. (co-PI: L. Cisneros-Zevallos)	\$15,000	\$15,000
14. Identification, isolation, and quantification of hydrolysable and non-hydrolysable tannins present in different pecan cultivars. 2007. USDA – ‘Designing food for health’. (co-PI: L. Cisneros-Zevallos)	\$21,000	\$21,000
15. Characterization of the human low-density lipoprotein (LDL) oxidation inhibition and antiplatelet aggregation properties of hydrolysable and non-hydrolysable tannins present in kernels and shells of different pecan varieties. 2008. USDA – ‘Designing food for health’. (co-PI: L. Cisneros-Zevallos)	\$24,000	\$24,000
16. Advanced sensing and management technologies to optimize resource use in specialty crops: case studies of water and nitrogen in deciduous crops under control and resource-limited conditions. 2008. USDA-CSREES Specialty Crop Research Initiative. (co-PI: A. Volder)	\$3,400,000	\$147,798
17. Evaluation of ReTain Plant Growth Regulator to increase nut set and fruit retention in pecans. 2008. L. Lombardini. Valent BioSciences Corp.	\$4,500	\$4,500
18. Global leaders in agriculture: enhancing participation in undergraduate experiential learning opportunities for minorities. 2009. USDA Higher Education Challenge (HEC) Grant. (co-PI: G. Wingenbach)	\$137,840	\$137,840

19. Evaluation of ReTain plant growth regulator to increase nut set and fruit retention in pecans. 2010. L. Lombardini. Valent BioSciences Corp.	\$5,000	\$5,000
20. Anti-inflammatory effects of pecan extracts and fractions of different pecan cultivars 2010. L. Lombardini. USDA – ‘Designing food for health’. (co-PI: L. Cisneros-Zevallos)	\$25,000	\$25,000
21. Systems approach at improving the long-term competitiveness of U.S. pecans based on their nutritional and health-promoting components. 2011. USDA-NIFA. Specialty Crop Research Initiative. (co-Pis: L. Cisneros-Zevallos, Monte Nesbitt)	\$1,219,636	\$167,656
1. Expanding our knowledge on health promoting properties of Texas pecans. 2013. L. Lombardini. Texas Pecan Board. (co-PI: L. Cisneros-Zevallos)	\$15,000	\$15,000
Total	\$5,037,409	\$731,477
Research funding obtained from internal Texas A&M University sources		
<i>Title, Year, P.I., Institution</i>	<i>Total amount</i>	<i>To program</i>
1. Instructional equipment enhancement fee. 2002. COALS. Amount awarded \$30,000. (co-PI: L. Cisneros-Zevallos)	\$30,000	\$15,000
2. International Research Travel Assistant Grant. 2003. L. Lombardini. Vice President for Research/International Programs.	\$1,450	\$1,450
3. Effect of electronic pasteurization on nutritional properties and shelf-life of pecan kernels. 2004. TAMU/CONACYT. Amount awarded \$23,273. (co-PI: U. Figueroa)	\$23,273	\$20,673
4. Research Equipment and Facilities Upgrade. 2007. TAES. Amount awarded \$17,500. (co-PI: A. Volder)	\$17,500	\$5,000
5. Bridging research disciplines. 2008. TAES. Amount awarded \$2,000. (co-PI: D. Wilkerson)	\$2,000	\$2,000
6. Research Equipment and Facilities Upgrade. 2008. TAES. Amount awarded \$15,000. (co-PI: A. Volder)	\$15,000	\$7,500
Total	\$89,223	\$51,623

Instructional funding obtained from internal Texas A&M University sources

<i>Title, Year, P.I., Institution</i>	<i>Total amount</i>	<i>To program</i>
1. Prospective Graduate Student Travel Grant. 2006. Association of Former Students and Office of Graduate	\$500	\$250

Studies. (co-PI: T. Starman).		
2. International Curriculum Development Grant. 2007. International Programs Office	\$500	\$500
3. Study abroad scholarship funding. 2010. College of Agriculture and Life Sciences.	\$2,850	\$2,850
4. Neuhaus-Shepardson Faculty Development Grant. 2011. College of Agriculture and Life Sciences.	\$1,400	\$1,400
Total	\$5,250	\$5,000

Program revenue activities

<i>Category, Year</i>	<i>Total amount[†]</i>	<i>To program</i>
Sale of pecan crop produced in research orchard. 2002	\$7,197	\$7,197
Sale of pecan crop produced in research orchard. 2003	\$9,628	\$9,628
Sale of pecan crop produced in research orchard. 2004	\$5,815	\$5,815
Sale of pecan crop produced in research orchard. 2005	\$10,318	\$10,318
Sale of pecan crop produced in research orchard. 2006	\$8,754	\$8,754
Sale of pecan crop produced in research orchard. 2007	\$7,124	\$7,124
Sale of pecan crop produced in research orchard. 2008	\$12,479	\$12,479
Sale of pecan crop produced in research orchard. 2009	\$14,450	\$14,450
Sale of pecan crop produced in research orchard. 2010	\$13,332	\$13,332
Total	\$89,097	\$89,097

[†] Amounts in this category indicate net profit for the program

Service and Extension (0% appointment)

Assignments to University Committees

<i>Type of committee</i>	<i>Chair/Co-chair</i>	<i>Committee member</i>	<i>Total</i>
Dept. of Horticultural Sciences	2	12	14
AgriLife	0	0	0
COALS	0	2	2
Texas A&M University	0	5	5
Professional organization	2	0	2
Total	4	19	23

Department of Horticultural Sciences committees:

1. Search Committee for the Vegetable Crops Breeder Position. Member, 2007
2. Search Committee for Urban Ecology Position. Member, 2003.
3. Search Committee for Director of the Vegetable and Fruit Improvement Center.
Member, 2004.
4. Search Committee for Urban Ecology Position. Member, 2006.

5. Department Seminar Series Committee. Member, 2003-2010.
6. Undergraduate Program Review Committee. Member, 2003-present.
7. Internship and Job coordinator (see teaching responsibilities). 2003-present.
8. Graduate Degree Program Committee. Member, 2006-2010.
9. Vegetable and Fruit Improvement Center. Member, 2004-present.
10. Vegetable and Fruit Improvement Center Outreach Committee. Co-leader, 2005-2007.
11. Department Scholarship Committee. Member, 2008-present.
12. Graduate Programs Committee. Member, 2008-2010.
13. Assessment Committee. Member, 2009-present.
14. Internationalization of Curriculum Committee. Chair. 2010-2011.

Texas Agriculture Experiment Station/Texas Agriculture Extension Service/Texas Cooperative Extension committees:

None

College of Agriculture and Life Sciences committees:

1. COALS Student Poster Competition for the Ag. Program Annual Conference. Member, 2003-2004.
2. Agriculture and Natural Resources Policy Internship program Interviewing Committee. Member, 2003-present.

Texas A&M University:

1. International Research Travel Assistance Grant (IRTAG) Screening Committee. Member, 2005
2. Academy for Future International Leaders Screening Committee. Member, 2004.
3. Study Abroad Scholarship (SAS) and the International Educational Fee Scholarship – Undergraduate (IEFS-U) Screening Committee. Member, 2004-2008.
4. International Curriculum Development Grant (ICDG)/International Research Travel Assistance Grant (IRTAG) Review Committee – Fall 2007
5. Texas AgriLife Research and Extension Center at Uvalde Resident Director Search Committee. 2011

Editorial Boards

- International Editorial Advisory Board, Ethiopian Journal of Applied Sciences and Technology. 2011-present.
- Editor of the proceedings of the 4th National Pecan Workshop. 2006.

Professional journal manuscript reviewer

- Acta Horticulturae
- HortScience
- HortTechnology
- Journal of Applied Horticulture
- Journal of Arboriculture

- Journal of the American Pomological Society
- Journal of the American Society for Hort. Sciences
- New Zealand Journal of Crop and Hort. Science

Grant proposal reviewer

- BARD US/Israel Binational Agricultural Research and Development Fund - Texas Department of Agriculture (TDA)
- Research and Development Foundation (CRDF) and the multilateral Science and Technology Center in Ukraine (STCU)
- Texas A&M-CONACyT Collaborative Research Grant Program

Interaction with AgriLife Research/AgriLife Extension Agents and Specialists

Frequent interaction and formal/informal meetings and field trips with:

- Mr. Bill Ree, AgriLife Extension Pecan Entomologist.
- Dr. George Ray McEachern, Professor and Extension Horticulturist.
- Dr. Larry Stein, Extension Horticulturist.
- Several other County Extension Agents across state.

Invited speaker at the following field days organized by AgriLife agents:

- Central Texas Pecan Short Course, Mills County, TX, Mar. 25, 2003.
- Pecan Management Clinic, Falls County, TX. April 17, 2003.
- Grafting Field Day, Brazoria County, TX. April 3, 2004.
- Speaker at Pecan Field Day, Waller County, TX. April 4, 2005.
- Speaker at Pecan Field Day, San Saba County, TX, May 1, 2006.
- Speaker at Pecan Judging Day, Fort Bend County, TX, Nov. 26, 2007.
- Speaker at Pecan Propagation Workshop, El Paso, TX Aug. 5, 2009.

Helped coordinating the following Regional or State Pecan Shows:

- State Pecan Show, Waco, TX. June 30, 2002.
- State Pecan Show, Midland, TX. July 13, 2003.
- East TX Regional Pecan Show, Brenham, TX. Dec. 17, 2003.
- State Pecan Show, San Antonio, TX. July 11, 2004.
- East TX Regional Pecan Show, Rosenberg, TX. Dec. 12, 2004.
- State Pecan Show, Austin, TX. July 17, 2005.
- East TX Regional Pecan Show, Brenham, TX. Dec. 14, 2005.
- State Pecan Show, Frisco, TX. July 9, 2006.
- Fort Bend County Pecan Show, Rosenberg, TX. Nov. 26, 2007
- State Pecan Show, The Woodlands, TX. July 13, 2008.
- East TX Regional Pecan Show, Brenham, TX. Dec. 16-17, 2008
- East TX Regional Pecan Show, Brenham, TX. Dec. 14-15, 2009
- State Pecan Show, San Marcos, TX. July 11, 2010.
- East TX Regional Pecan Show, Brenham, TX. Dec. 13, 2010

- State Pecan Show, Frisco, TX. July 10, 2011.
- East TX Regional Pecan Show, Brenham, TX. Dec. 12, 2011
- Speaker a Pecan Short Course, Jan. 2012
- State Pecan Show, San Marcos, TX. July 15, 2012.
- East TX Regional Pecan Show, Brenham, TX. Dec. 12, 2012

Regular speaker and contributor for the Pecan Management Short Course organized by Mr. Monte Nesbitt and Drs. G.R. McEachern and Larry Stein:

- Jan. 27, 2003
- Jan. 28, 2004
- Jan. 24, 2005
- Jan. 23, 2006
- Jan. 22, 2007
- Jan. 28-29, 2008
- Jan. 26-27, 2009
- Jan. 25-26, 2010
- Jan. 24-25, 2011
- Jan. 23-24, 2012

Educational events

- Speaker for TV segment “From the Ground Up” to talk about the importance of pruning in pecans, aired on KTBX-TV, Mar. 11, 2003.
- Speaker at the Brazos Valley Chapter of Texas Master Naturalists with the presentation “Pecan: the Native American nut.” Mar. 8, 2007.

Development and maintenance of research website

- Developed website to post research data, recent presentations and make them accessible to growers, cooperators and colleagues.

International Program Activities

- **Research**
 - Selected together with other nine A&M faculty members to participate in the Faculty Abroad Seminar, organized by the Office for Latin American Programs at Texas A&M University. The seminar included a trip to Mexico to visit Mexican research and teaching institutions to establish cooperative projects. Resulted in a funded TAMU/CONACYT grant. May 12-22, 2003.
 - Trip to Torreón, Coahuila, Mexico (funded by International Research Travel Assistant Grant), to establish a research project to investigate the effects of magnesium fertilization in pecan. The Mexican counterparts are members of INIFAP (Instituto Nacional de Investigaciones Forestales, Agrícolas Y Pecuarias) and Industria Peñoles. Nov. 18-21, 2004

- Served as a reviewer for a TDA/BARD research proposal (“Drought tolerance genes in wild barley as genetic resources for cereal improvement”, TDA-TIE/BARD TB-8028-04). July 2004.
- Prepared material to set the basis to create a memorandum of agreement (MOA) between the Department of Horticultural Sciences and the Mexican institution INIFAP (Instituto Nacional de Investigaciones Forestales, Agrícolas Y Pecuarias) to facilitate mobility of students and investigators.
- Served as a reviewer for a U.S. Civilian Research and Development Foundation (CRDF)/Science and Technology Center in Ukraine (STCU) research proposal (“The development of synthetic approaches to novel types of azoles and azine derivatives, potential bioregulators”), STCU-3017. November 2005.
- Visited and given seminar at the University of Foggia, Italy, as part of the “International certificate program on postharvest technology of horticultural crops”.
- Ongoing collaboration with scientists from Mexican Institutions (INIFAP, Universidad Autónoma Chapingo, CONACyT) to conduct research in pecans. The collaboration has generated extension publications and presentations at scientific meetings.

- **Teaching**

- Taught Study Abroad Course (HORT 400, Italy Horticultural Perspectives) in summer 2004 in Italy. 11 students enrolled.
- USDA Faculty Exchange Program, coordinated by Dr. Mike McWhorter from the Norman Borlaug Institute for International Agriculture. Hosted one exchange faculty member (Dr. Vlado Licina) from the University of Belgrade, Serbia. Fall 2005.
- Advised two exchange undergraduate students from École Supérieure d'Agriculture d'Angers, France (Spring 2006).
- Helped Dr. Cisneros-Zevallos to organize the “International certificate program on postharvest technology of horticultural crops” supported by the Department of Education and FIPSE (Fund for the Improvement of Postsecondary Education). The program has led to the mobility of 8 HORT undergraduate students to work in research labs at the University of Foggia, Italy, the University of Thessaly, Greece, and the University of Cordoba, Spain in 2006 and 2007. In addition, 4 students from Cordoba, 2 from Thessaly, and 3 from Foggia spent between 3 and 6 months in our department between 2006 and 2007, helping with research projects and taking classes.
- Travelled to Serbia and given seminar at the University of Belgrade (May 23-31, 2006), as part of the USDA Faculty Exchange Program.
- Developed Study Abroad Course (HORT 489, Mexico – Horticultural Perspectives) with Dr. David Byrne to take students to Mexico during summer 2007. The course was approved by the Study Abroad Committee, but not low enrollment led to its cancellation.
- Taught Study Abroad Course (HORT 489, International Horticulture) in summer 2008 at the Texas A&M University Santa Chiara Center in Italy. 35 students enrolled.

- USDA Faculty Exchange Program, coordinated by Dr. Mike McWhorter from the Norman Borlaug Institute for International Agriculture. Hosted one exchange faculty member (Dr. Derbew Belew Yohannes) from Jimma University, Ethiopia. Fall 2008.
- Participated at Faculty Development Trip to the Texas A&M University Costa Rica Center in San Isidro, Costa Rica. May 18-22, 2009.
- Developed Study Abroad Course (Spanish for Horticulture + Horticultural Aspects of Southern Mexico) to take students to Mexico during summer 2009. The course was cancelled due to low enrollment.
- Travelled to Ethiopia and given seminar at Jimma University (Sept. 23-30, 2011) as part of the USDA Faculty Exchange Program.
- Team member of the three-year cooperative agreement between Texas A&M University and the Universidad Nacional Agraria-La Molina (UNALM) in Lima, Peru, aimed at strengthening the research and teaching capacities of UNALM faculty in support of the U.S.-Peru Trade Promotion Agreement. The project involves co-teaching (with Dr. Gary Wingenbach, ALEC) two 5-day workshops/year for 2011 and 2012.

Professional Development

- *Teaching about Global Sustainability* (6 hrs of Continuing Professional Education). Presented by Public Partnerships & Outreach, Office of the Provost at Texas A&M University in collaboration with Facing the Future. Participant (Oct. 26, 2012).
- *AgriLife Advanced Leadership Program*. The AgriLife Advanced Leadership Program (<http://agrilife.org/leaders/>) developed advanced leaders from across AgriLife who wanted to enhance their leadership and personal development skills. The program, which lasted for 18 months, built leadership, while providing a greater understanding of The Texas A&M System and the land-grant mission. Participant (2010-2012).

Professional, Scientific and Honor Society Activities

Organization and type of participation

American Floral Endowment

- Reviewer of scholarship applications. 2011.

American Society for Horticultural Science (ASHS). Active member since 1995.

- Outstanding Undergraduate Educator Award Selection Committee Member. 2013-current.
- Presented research papers at annual conferences since 1995.
- Coordinated the workshop “Current status and outlook for molecular genetics research in nut crops” on for the 2004 Conference in Las Vegas, NV.
- Served as Chair for the Temperate Tree Nut Crops Working Group. 2004-2006.
- Served as judge for undergraduate poster competition at the 2008 and 2009 Conferences.
- Served as a reviewer for *Journal of the American Society for Horticultural Science*, *HortScience*, or *HortTechnology* manuscripts. 2002-present.

American Society for Horticultural Science – Southern Region (SR-ASHS). Active member since 2003.

- Presented research papers at annual meetings since 2003.
- Served as judge for the S. Barham Ph.D. Graduate Student Competition. 2005.
- Assisted with training TAMU Horticulture Club students for the undergraduate student horticulture judging competition. 2004-present.
- Assisted with conducting the undergraduate student horticulture judging competition. 2004-present.
- Association of Collegiate Branch (ACB) Advisor for years 2009-2011.
- Coordinated the Pecan Research and Extension Forum at the 68th Annual Meeting in Dallas, TX. Feb 2-4, 2008.

International Society for Horticultural Science (ISHS). Active member since 1996.

- Served as a reviewer for 1 manuscript submitted to *Acta Horticulturae*. 2002-present.
- Co-Convenor of the I International Symposium on Pecans and Other *Carya* in Indigenous and Managed Systems, held in College Station, July 2013.

North American Colleges and Teachers of Agriculture (NACTA). Active member since 2011.

Italian Scientists & Scholars of North America Foundation. Active member since 2011

Meeting of Pecan Scientists

- Convenor of the 4th National Pecan Workshop (Branson, MO, June 5-6, 2005), in which 34 national pecan research and extension workers convened to report results and exchange opinions and ideas on different aspects of pecan research.

Other organizations in which active membership is held

Texas Pecan Growers Association. Active member since 2002.

- Presented research papers at annual meetings.
- Participated in Board Meetings. 2002-present.
- Contributed with 4 articles (see Popular Press Articles) to the *Pecan South* monthly magazine.

Honors and Awards Received

- Recipient of the J. Creighton Miller, Jr. Distinguished Educator Award 2012. Presented at the 72nd Annual Meeting of the Southern Region American Society for Horticultural Science, held in Birmingham, AL on Feb. 3-6, 2012.
- First place at the 2009 VFIC Conference “Consumers to Farm: Changing Patterns in the Fruit and Vegetable Industry” Austin, TX, Aug. 21, 2009 with the paper Ortiz-Quezada A.G. (presenter and award recipient), L. Lombardini, and L. Cisneros-Zevallos. Identification of tannins from pecan kernels by liquid chromatography-mass spectrometry.

- Session winner by College (College of Agriculture and Life Sciences) at the 12th Annual Student Research Week. Texas A&M University, Mar. 23-27, 2009 with the paper Ortiz-Quezada A.G. (presenter and award recipient), L. Lombardini, and L. Cisneros-Zevallos. Identification of tannins from pecan kernels by liquid chromatography-mass spectrometry.
- Second place Taxonomy Winner by College (College of Agriculture and Life Sciences) at the 12th Annual Student Research Week. Texas A&M University, Mar. 23-27, 2009 with the paper Ortiz-Quezada A.G. (presenter and award recipient), L. Lombardini, and L. Cisneros-Zevallos. Identification of tannins from pecan kernels by liquid chromatography-mass spectrometry.
- Second place in the Graduate poster competition at the 103rd ASHS Conference. New Orleans, LA. July 26-31, 2006 with the paper: Villarreal J.E. (presenter and award recipient), L. Lombardini, and L. Cisneros-Zevallos. E-Beam irradiation induced minor changes in phytochemical content and antioxidant capacity of pecan kernels.
- Third place in the Norman Childers M.S. Graduate Student Competition at the 65th ASHS-SR Meeting. Little Rock, AR, 5-7 Feb. 2005 with the paper: Villarreal, J.E. (presenter and award recipient), L. Lombardini, and L. Cisneros-Zevallos. Phenolic content and antioxidant activity in different pecan cultivars.