

CURRICULUM VITAE

S. KAAAN KURTURAL

1. Education

- PhD Southern Illinois University Carbondale 2005- Plant Biology
- MSc Southern Illinois University Carbondale 2001- Plant and Soil Science

2. Experience record

- Associate Professor. Dept. Viticulture and Enology, California State University, Fresno. August 2013-present
- Assistant Professor. Dept. Viticulture and Enology, California State University, Fresno. August 2008-2013
- Extension Specialist for Viticulture. Dept. Horticulture, University of Kentucky. August 2005 to August 2008

3. Research interests

- Vineyard mechanization for optimizing crop load, yield efficiency and sustainability
- Physiological thresholds of irrigation deficits, scheduling, application and their interactive effects with cropping levels on whole plant and flavonoid biosynthesis
- Low molecular weight phenolic composition of grape berry as affected by crop level, light attenuation and irrigation thresholds and their temporal development with high performance liquid chromatography
- Design and application of whole plant assimilation chambers in orchard and vineyards to measure photosynthesis and water use efficiency
- Development of land use suitability models to expand orchard and vineyard plantings in continental climate

4. Extension experience (California and Kentucky)

- In-service training for extension personnel
- Working with producers, agribusiness organizations and state and federal agencies to promote sustainable production of wine grapes
- Developing state wide viticulture program that assists commercial growers with variety selection, production practices and pest management
- Conducting workshops and field days and creating publications on viticulture related materials aimed at state-wide grape growers
- Coordinating interdisciplinary team projects with growers, agribusiness representatives, and other extension faculty

5. Teaching experience

Graduate level:

- VEN 201 Advanced viticulture
- VEN 229 Graduate seminar
- VEN 260 Yield physiology
- VEN 262 Data analysis using SAS
- VEN 280 Field plotting
- VEN 299 Thesis
- PSGA 436 Temperate zone fruit production (SIUC)
- PLS 517 Commercial grape production (UK)

Undergraduate level:

- VIT 101 General viticulture
- PLB 117 Plants and society (SIUC)
- VIT 106 Wine grape production
- VIT 160 Mechanized viticulture
- VIT 162 Canopy management of the grapevine
- PLSS 333 Vines to Wines (SIUC)
- PLS 466 Small fruit culture (SIUC)

6. Service to the University

- University Senator, California State University, Fresno (2010-2013)
- University Research Committee, California State University, Fresno (since 2015)
- Department of Viticulture and Enology – Thomas Valdero Vineyard Redevelopment Committee Chair (2012)
- Fresno State Soccer Club – Faculty Advisor (since 2012)
- Department of Plant Science – Pomologist Assistant Professor Search Committee (2014-2015)
- Department of Viticulture and Enology – Wine Grape Production Assistant Professor Search Committee Chair (2012, 2013, 2014)
- Department of Viticulture and Enology – Wine Chemist Assistant Professor Search Committee Chair (2012)
- Research and Scholarly Activities Committee, Member. College of Agricultural Sciences and Technology, California State University, Fresno (2008-2011)
- Harvey-Jordan Fellowship Committee, Member. College of Agricultural Sciences and Technology, California State University, Fresno (since 2008).
- Department of Viticulture and Enology Chairperson Search Committee (2009, 2010)

7. Professional activities and services

- Editor (Academic)– PLOS One –Agriculture, Crops (apple, berry crops, cherry, grape, peach, pear)
- Editor – Practical Winery and Vineyard
- Reviewer for Journals (113 manuscripts reviewed since 2005): Acta Horticultureae, Australian Journal of Grape and Wine Research, American

- Journal of Horticultural Science, American Journal of Enology and Viticulture, HortScience, HortTechnology, Scientia Horticulturae, Spanish Journal Of Agronomy, Weed Technology, Weed Science
- Reviewer for Grants (43 grants reviewed since 2005): American Vineyard Foundation, Commonwealth of Kentucky Department of Agriculture Tobacco Settlement Fund, Illinois C-FAR, Specialty Crop Block Grant Program, California Department of Food and Agriculture, USDA Specialty Crops Initiative, USDA-SARE Southern Region, Viticulture Consortium-East, Viticulture Consortium-West
 - Moderator for Professional Meetings: American Society for Horticultural Science (Crop Physiology, Viticulture and Small Fruits)
 - Organizing Committee for Professional Meetings: International Warm Climate Viticulture Symposium, Current Trends in Vineyard Mechanization, Berry Sensory Workshop, January Pruning Workshops at Fresno State, Grape Day at Fresno State, Kentucky State Horticulture Society Annual Mtg, Kentucky Vineyard Society Annual Mtg., Illinois Grape Growers and Vintners Assoc. Ann. Mtg.

8. Grant activity (\$7,259,578 since terminal degree)

- USDA-NIFA-SCRI 2015-2019 - Vineyard Efficiency Through High-Resolution, Spatiotemporal Crop Load Measurement and Management \$ 4,412,045.
- Agriculture Research Initiative 2014-2016 - Interactive effects of irrigation stress and plant growth regulators on anthocyanin biosynthesis of *Vitis* sp. \$113,767
- Agriculture Research Initiative 2014-2017 - Gene expression of *VvOMT* 1,2,3,4 under early and late season light exposure and their influence on flavonoid biosynthesis of *Vitis* spp.. \$126,443
- American Vineyard Foundation 2013-2017. - Interactive effects of rootstocks, training systems, and differential RDI on yield and fruit composition of Zinfandel. \$240,441
- American Vineyard Foundation 2013-2016 - Timing of mechanical leaf removal and differential RDI on norisoprenoid development and methoxy-pyrazine catabolism of a procumbent wine grape cultivar \$172,220
- American Vineyard Foundation 2013-2017 - Whole canopy net photosynthetic response of procumbent wine grape cultivar to trellis system conversion and differential RDI. \$250,000
- Agrothermal Solutions 2012 - Efficacy of thermal treatments on wine composition of Pinot Noir, Cabernet Sauvignon and Malbec (2 years) \$103,400
- Agriculture Research Initiative 2012 - Crop forcing for quality wine grape production (3 years) \$263,000 (with S. Gu, and J. Kennedy)
- American Vineyard Foundation 2011 - Interactive Effects of Mechanized Canopy Management and RDI on Shiraz (1 year) \$62,958

- Agriculture Research Initiative 2011 - Achieving Vine Balance of Syrah with Mechanical Canopy Management and Regulated Deficit Irrigation (2 years) \$146,000
- Agriculture Research Initiative 2011 - Performance of Cabernet Sauvignon under Conventional and Mechanical Canopy Management (1 year) \$19,458
- CDFA, Specialty Crop Block Grant 2010 - Area-wide mating disruption for vine mealybug in grapes (3 years) \$459,413
- Agriculture Research Initiative 2010 (with S. Gu) - Crop forcing for quality wine grape production – unconventional means to produce cool climate fruit in warmer regions (1 year) \$49,200
- Agriculture Research Initiative 2010 (with A. Shrestha) - Crop yield and economics of San Joaquin Valley vineyards under alternative weed management strategies (3 years) \$74,300
- Viticulture Consortium West 2010 (with A. Shrestha) - Crop yield and economics of San Joaquin Valley vineyards under alternative weed management strategies (1 year) \$30,000
- American Vineyard Foundation 2010 - Sustaining Bud Fruitfulness, Yield and Wine Composition of Pinot Grigio and Shiraz through Interactive Effects of Canopy Management in the southern San Joaquin Valley (1 year) \$59,458
- American Vineyard Foundation 2010 - Interactive Effects of Mechanized Canopy Management and RDI on Shiraz (1 year) \$62,958
- American Vineyard Foundation 2009 - Interactive Effects of Mechanize Canopy Management and RDI on Shiraz (1 year) \$40,725
- Agriculture Research Initiative 2009 - Yield Monitoring of Wine Grapes 2009 (1 year) \$60,002
- Oxbo-Korvan International 2009 - Performance of Cabernet Sauvignon with Mechanized Canopy Management (1 year) \$12,097
- USDA-SARE Southern Region 2008 - Sustainable Management for Japanese and Green June Beetles in Vineyards (1 year) \$9,500
- USDA-New Crop Opportunities Center 2007 - Sustainable Management for Japanese and Green June Beetles Impacting Grape Production (1 year) \$25,000
- Kentucky Department of Agriculture 2007 - Development and Improvement of Grape and Wine Industry to Benefit the Agricultural Economy of Kentucky (1 year) \$297,000
- USDA-Viticulture Consortium-East 2006 - A Spatial Decision Support System to Select Suitable Vineyard Sites in North-Central Kentucky, Southern Ohio and Indiana (1 year) \$10,000
- Kentucky Department of Agriculture 2005 - Evaluation of Interspecific Grape Cultivars, French cultivars, Training Systems and Rootstock/Interstem Combinations for Kentucky Climate and Soils (2 years) \$57,624
- Kentucky Grape and Wine Resources Council 2005 - Mitigating Frost-Damage to Wine Grapes by Oil Application (2 years) \$65,200
- Kentucky Department of Agriculture 2005 - Ameliorating Cropload of Traminette and Vidal blanc under Kentucky Climate (2 years) \$25,600

- Kentucky Department of Agriculture - A Spatial Decision Support System to Select Suitable Vineyard Sites in Western Kentucky and Southern Illinois (2 years) \$25,600
- USDA-Viticulture Consortium-East 2005 - A Spatial Decision Support System to Select Suitable Vineyard Sites in North-Central Kentucky and Southern Ohio (1 year) \$5,647

9. Unrestricted gifts

- Syngenta US 2015 - \$15,000.00
- E&J Gallo Development fund 2015: \$1,500
- Midwest Grower Manufacturer Supply 2014 - \$121,548 Suite of vineyard mechanization equipment donation
- Syngenta US 2014 - \$6,250
- University Farm Laboratory French Columbard Block replant 2013. \$246,000
- Allied Grape Growers 2014 - \$12,633
- Allied Grape Growers 2013 - \$7,364
- Allied Grape Growers 2012 - \$5,620
- Suterra Inc. 2012 - Vine mealy bug pheromone dispensers \$21,000
- Allied Grape Growers 2012 - \$3,620
- E.&J. Gallo Analytical Laboratories 2012 - Liquid chromatography and SPME gas chromatography \$36,000
- E.&J. Gallo Analytical Laboratories 2011 - Small lot wine making \$18,000
- E.&J. Gallo Analytical Laboratories 2011 - Liquid chromatography and SPME gas chromatography \$36,000
- Suterra Inc. 2011 - Vine mealybug pheromone puffers \$123,647
- Bronco Wine Company 2011 - Small lot wine making \$78,376
- Bronco Wine Company 2010 - Small lot wine making \$78,221
- Bronco Wine Company 2009 - Small lot wine making \$54,300
- Suterra Inc. 2009 - Vine mealybug pheromone dispensers \$62,500
- Oxbo-Korvan International 2009 - Interactive Effects of Mechanize Canopy Management and RDI on Shiraz (1 year) \$7,370
- West Coast Grape Farming Inc. 2009 - Interactive Effects of Mechanize Canopy Management and RDI on Shiraz (1 year) \$2,340
- University of Kentucky Ag. Exp. Sta. 2007 - Vineyard tractor with spray-ready cab \$40,000
- Kentucky Vineyard Society 2007 - Unrestricted Gift to Viticulture Program \$2,000
- University of Kentucky Ag. Exp. Sta. 2006 - Research Activity Award \$5,000
- University of Kentucky Ag. Exp. Sta. 2006 - 2WD Ford F-150 (MY 1994) truck with tow package \$3,500
- University of Kentucky, Pathology Dept. 2005 - Waters UV/VIS HPLC System \$16,000
- University of Kentucky Ag. Expt. Sta. 2005 - Low-profile, narrow gauge tractor \$16,000

- Lover's Leap Vineyards Inc. 2005 - Rotary weed-control hoe \$400

10. Professional affiliations

- American Chemical Society
- American Society for Horticulture Science
- American Society of Enology and Viticulture

11. Selected extension presentations

- Kurtural, SK. 2015 - Interactive effects of plant growth regulators and deficit irrigation on temporal anthocyanin development and yield components of Autumn Royal grapevine, UCCE Bakersfield Co. 12 January 2015
- Kurtural, SK. 2014 - Handling irrigation based on evapotranspiration fractions in an exceptional drought year, Allied Grape Growers Fresno, CA
- Cook, M. and Kurtural, SK. 2013 - Update on mechanical leaf removal and regulated deficit irrigation for north-central San Joaquin Valley Fresno State
- Nelson, C and Kurtural, SK. 2013 - Interactive effects of crop load management and nitrogen fertility for southern San Joaquin Valley Fresno State
- Kurtural, SK. 2013 - Managing crop load in central and southern San Joaquin Valley vineyards, UCCE Fresno Co. 23 April 2013 Allied Grape Growers Mtg.
- Kurtural, SK. 2013 - Sustaining bud fruitfulness of Pinot gris in a warm climate UC Davis Extension 21 February 2013
- Kurtural, S.K. 2013 - UCCE Current approaches and advancements in vineyard mechanization, Cal. Plant and Soil Science Conference, 8 Feb 2013 Visalia, CA
- Kurtural, S.K. 2012 - Pruning system and canopy management practice influence to affect yield and fruit composition of Syrah. Fresno Fruit, Raisin and Nut Expo 7 November 2012
- Kurtural, S.K. 2012 - Mechanical canopy and crop load management of Pinot gris. Stanislaus County Tree and Vine Expo 13 November 2012
- Kurtural, S.K. 2012 - Mechanical crop load management and RDI Affects Wine Composition of Syrah Central Coast Grape and Wine Expo 16 November 2012
- Kurtural, S.K. 2012 - Emerging trends in vineyard mechanization. Sustainable Ag Expo 12 November, Monterey, CA
- Kurtural, S.K. 2012 - Mechanical canopy and crop load management of Pinot gris in a warm climate, UCCE Stanislaus Co. Lodi Winegrape Comm. Lodi, CA
- Kurtural, S.K. 2012 - Canopy management of wine grapes, What works and what doesn't, UCCE Shasta Co. Wine grape growers meetings, Redding, CA
- Kurtural, S.K. 2011 - Bud fruitfulness of Pinot Grigio in southern SJV, UCCE San Joaquin Valley Winegrape Growers Ann. Mtg. Kingsburg, CA
- Kurtural, S.K. 2010 - Interactive effects of mechanical canopy management and RDI on Syrah grapevines, UCCE San Joaquin Valley Winegrape Growers Ann. Mtg. Fresno, CA

- Kurtural, S.K. 2009 - Effects of Conventional and Mechanical Canopy Management and RDI on Cabernet Sauvignon and Shiraz Grapevines, UCCE San Joaquin Valley Winegrape Growers Ann. Mtg. Fresno, CA
- Kurtural S.K. 2008 - Airblast spray efficiency and benefits University of Kentucky Viticulture Field Day 9 June 2008
- Basic production, economics and marketing information for wine grapes - In-service Training for Ag.Nat. Res. And County Agents. Madison Co. CES Office. 22 October 2007
- Canopy management in small vineyards. University of Kentucky Viticulture Field Day 7 July 2007
- French-American hybrid and vinifera clones for the Kentucky Climate. University of Kentucky Viticulture Field Day 7 July 2007
- Best Management Practices for Kentucky Vineyards, 2007
- Series of 11 on-farm workshops/demonstrations for Canopy Management in Western, Central, and Northern Kentucky Vineyards for the 2007 Growing Season supported by the CES and Kentucky Vineyard Society
- Best Management Practices for Kentucky Vineyards: i) Series of 5 on-farm workshops/demonstrations for Canopy Management in Western, Central and Northern Kentucky Vineyards for the 2006 Growing Season supported by the CES and Kentucky Vineyard Society
- Basics of dormant pruning for wine grapes. University of Kentucky CES Pruning Workshop I. 28 January 2006
- Training young grapevines - University of Kentucky CES. Pruning Workshop I. 28 January 2006.
- Cultivar trial updates and research progress at the University of Kentucky, Kentucky Grape and Wine Short Course 11 January 2006
- Overview of the cost-share program for commercial vineyard in Kentucky, Kentucky Grape and Wine Short Course 11 January 2006
- Production budgets for wine and table grapes in Kentucky, Kentucky Grape and Wine Short Course 11 January 2006
- Production Budgets for Juice and Wine Grapes in Kentucky, Kentucky Vineyard Society Fall Meeting 22 October 2005
- Site Selection for Vineyards in Kentucky, Kentucky Vineyard Society Field Day 17 September 2005
- Site Preparation, Cultivar Selection and Vineyard Design, Kentucky Vineyard Society Fall Field Day, 17 September 2005
- Growing Grapes in Kentucky, University of Kentucky Research and Education Center Field Day in Princeton, 28 July 2005
- Deer and Bird Control in Vineyards, Kentucky Vineyard Society/UK Summer Vineyard Workshop, 17 July 2005
- Growing Season Mineral Nutrition in Young Vineyards, Kentucky Vineyard Society/UK Summer Vineyard Workshop, 11 July 2005
- Training and Caring for Young Vines in Northern Kentucky, 11 July 2005
- Canopy Management in French-American hybrids in Kentucky, Kentucky Vineyard Society / UK Summer Viticulture Field Day, 18 June 2005

- Crop Estimation in Vineyards, Kentucky Vineyard Society / UK Summer Viticulture Field Day, 18 June 2005
- Growing Grapes in the Eden Shale, Eden Shale Research Farm 50th Anniv. College of Agriculture Field Day, 16 June 2005
- Vineyard Pruning Demonstration Kentucky Vineyard Society UK Horticulture South Farm 12 March 2005
- Wine Grape Growers Short Course 7-14 March 2005 Owen County, Kentucky
- Grape Pruning Short Course, 24 March 2005 Owen County, Kentucky
- Grape Pruning Lecture and Short Course, 21 March 2005 UK Princeton Education and Research Center.
- Training Pruning and Managing Wine Grapes, 3 January 2005 UK Annual Fruit and Vegetable Trade Show, Lexington, KY
- Mineral Nutrition of Vineyards, 3 January 2005 UK Annual Fruit and Vegetable Trade Show, Lexington, KY
- Managing Cropload for the Upcoming Season, 3 January 2005 UK Annual Fruit and Vegetable Trade Show, Lexington, KY
- Managing Cropload of French-American hybrids in northern Illinois, 12 April 2004 SIUC-UIUC/IGGVA Spring Workshop, Galena, IL
- Managing Cropload of French-American hybrids in central Illinois, 11 April 2004 SIUC-UIUC/IGGVA Spring Workshop, Barry, IL
- Managing Cropload of French-American hybrids in southern Illinois, 7 April 2004 SIUC-UIUC/IGGVA Spring Workshop, Carbondale, IL
- Pruning and Cluster thinning Affects Yield and Cold Hardiness of Chambourcin, 27-28 February 2004 Springfield, IL Illinois Grape Growers and Vintners Association Annual Mtg.
- Cold hardiness of grapevines in Illinois as affected by cultural practices, 25-26 February 2003, Springfield, IL Illinois Grape Growers and Vintners Association Annual Mtg.

12. Selected presentations/published abstracts/proceedings

- SK. Kurtural, M. Cook, G. Gambetta, J. Kennedy 2015. Concentration, Proportion and Hydroxylation of Merlot Grapevine Anthocyanins are Ameliorated by Interaction of Light Microclimate and Applied Water Amounts in the Hot Climate., 19th Mtg. GiESCO Pech Rouge Montpellier, France.
- SK. Kurtural, C. Nelson, J. Kennedy 2015. Interactive Effects of Pruning Systems and Deficit Irrigation Methods on Productivity and Phenolic Composition of Zinfandel under Prolonged Drought, 19th Mtg. GiESCO Pech Rouge Montpellier, France.
- T. Tian, G. Dervishian, SK. Kurtural, S. Gu 2014. Chemical removal of primary inflorescence and mature leaves to force vine regrowth and fruiting in a warmer region for winegrape production. 2014. Amer. Soc. Horticult. Sci.
- SK. Kurtural 2014. Vegetative compensation response of a procumbent grapevine cultivar (*Vitis vinifera* L. cv. Syrah) under mechanical canopy management 2014. Amer. Soc. Horticult. Sci.

- SK. Kurtural, LF. Wessner, G. Dervishian 2014. Vegetative compensation response of a procumbent grapevine cultivar under mechanical crop load management. 2014. 65th Mtg. Amer. Soc. Enol. Viticult. Austin, TX.
- SK. Kurtural, J. Kennedy 2014. Biosynthesis of flavonoids is mitigated by cluster light exposure, not plant water stress. 2014 Annual Amer. Soc. Hort. Sci. Mtg. Orlando, FL.
- M. Cook, Y. Zhang, J. Kennedy, SK. Kurtural 2014. Leaf removal timing and method of irrigation affect accumulation of phenolic compounds in seed and skin of red wine grape cultivar. 65th Mtg. Amer. Soc. Enol. Viticult. Austin, TX.
- C. Nelson, SK. Kurtural 2014. Comparison of Freedom and Salt Creek rootstock under timing and severity of irrigation stress in warm climate. 2014. 65th Mtg. Amer. Soc. Enol. Viticult. Austin, TX.
- Pruning systems and irrigation reduction severity affect yield efficiency of Zinfandel in warm climate. 2014. 65th Mtg. Amer. Soc. Enol. Viticult. Austin, TX.
- SK. Kurtural, G. Dervishian. R. Wample 2013. Mechanical crop load management options to reduce labor costs in Cabernet Sauvignon production. 2013 Annual Amer. Soc. Hort. Sci. Mtg. Palm Desert, CA.
- SK. Kurtural JP. Geller 2013. Mechanical crop load management of wine grapes in warm climates. 2013 Annual Amer. Soc. Hort. Sci. Mtg. Palm Desert, CA.
- SK. Kurtural, LF. Wessner 2013. Pruning systems and canopy management interact on yield and fruit composition of Syrah. 64th Mtg. Amer. Soc. Enol. Viticult. Monterey, CA.
- SK. Kurtural, G. Dervishian 2013. Mechanical canopy management reduces labor costs and maintains fruit composition of Cabernet Sauvignon grapevine production. 64th Mtg. Amer. Soc. Enol. Viticult. Monterey, CA.
- A. Shrestha, SK. Kurtural, S. Konduru 2013. Weed control options in organic vineyards. Western Soc. Weed Science. 58th Ann. Mtg. San Diego, CA.
- JP. Geller, SK. Kurtural 2012. Mechanical crop load management of Pinot gris grapevines. 63rd Mtg. Amer. Soc. Enol. Viticult. Portland, OR.
- D. Langone, K.M. Daane, SK. Kurtural 2012. Efficacy of vine mealy bug mating disruption using aerosol assisted delivery. 63rd Mtg. Amer. Soc. Enol. Viticult. Portland, OR.
- S. Pinnell, SK. Kurtural 2012. Influence of mechanical canopy manipulation and differential RDI stress on phenolic composition of Syrah wines. 63rd Mtg. Amer. Soc. Enol. Viticult. Portland, OR.
- A. Shrestha, S.K. Kurtural, M.W. Fidelibus 2012. Weed management comparisons in organic vineyards: Economics and Efficiency 63rd Mtg. Amer. Soc. Enol. Viticult. Portland, OR.
- KM. Daane, SK. Kurtural, S. Welter, M. Cooper 2011. Comparative effectiveness of various mating disruption technologies for vine mealybug management in vineyards. 2011 Annual Entomological Society of America Meeting 13-16 November 2011.

- SK. Kurtural 2011. Integrating canopy management for Pinot gris. 2011 ASHS Annual Conference Waikoloa, HI.
- SK. Kurtural 2011. Interactive effects of mechanical canopy management and regulated deficit irrigation on Syrah 2011 ASHS Annual Conference. Waikoloa, HI.
- D. Terry, SK. Kurtural 2011. Achieving vine balance of Syrah with mechanical canopy management and regulated deficit irrigation. 62nd Mtg. Amer. Soc. Enol. Viticult. Monterey, CA.
- JP. Geller, SK. Kurtural 2011. Vine balance assessment of Pinot Grigio in the southern San Joaquin Valley of California. 62nd Mtg. Amer. Soc. Enol. Viticult. 62nd Mtg. Amer. Soc. Enol. Viticult. Monterey, CA.
- L. Wessner, SK. Kurtural 2011. Rejuvenating Syrah grapevines with training and canopy management. 62nd Mtg. Amer. Soc. Enol. Viticult. Monterey, CA.
- L. Wessner, SK. Kurtural 2011. Integrating steps of canopy management for Syrah grapevines in the San Joaquin Valley. 62nd Mtg. Amer. Soc. Enol. Viticult. Monterey, CA.
- L. Wessner, SK. Kurtural 2011. Vine balance assessment of mechanically managed canopies in the southern San Joaquin Valley. 62nd Mtg. Amer. Soc. Enol. Viticult. Monterey, CA.
- JP. Geller, SK. Kurtural 2011. Interactive effects of canopy management on Pinot Grigio grapevines. 62nd Mtg. Amer. Soc. Enol. Viticult. Monterey, CA.
- A. Shrestha, ML. Moretti, F. Baesso, SK. Kurtural, G. Dervishian, M. Fidelibus. 2010. Weed Management in organic orchards and vineyards in the San Joaquin Valley of California. ASA-CSSA and SSSA Annual Mtg. Oct 31-Nov 3. Long Beach, CA.
- P.E. Wilson, D. Archbold, SK. Kurtural 2010. Cultural practices to improve primary bud cold hardiness of Vidal blanc grapevines in the continental climate. 2010 Ann. Amer. Soc. Hort. Soc. 2-5 August 2010 Palm Springs, CA.
- M. Martinez, R. Wample, SK. Kurtural 2010. Performance of Cabernet Sauvignon under Conventional and Mechanical Canopy Management. 7th International Cool Climate Symposium.
- D. Terry, G. Dervishian, SK. Kurtural 2010. Interactive effects of crop load and regulated deficit irrigation on Shiraz grapevines. 61st ASEV Annual Mtg. Seattle, WA. 7th International Cool Climate Symposium Seattle, WA.
- D. Terry, SK. Kurtural 2010. On-site measurements to assess vine balance of mechanically managed grapevine canopies in the San Joaquin Valley. 61st ASEV Annual Mtg. Seattle, WA.
- D. Terry, G. Dervishian, SK. Kurtural 2010. Interactive effects of canopy management and regulated deficit irrigation on Shiraz Grapevines. 61st ASEV Annual Mtg. Seattle, WA.
- SK. Kurtural, R.L. Wample 2009. Effects of Conventional and Mechanical Canopy Management of Performance of Cabernet Sauvignon. 60th ASEV Annual Mtg. Napa, CA.
- DL. Hammons, SK. Kurtural 2009. Phenological resistance of grapes to green June Beetle 60th ASEV Annual Mtg. Napa, CA.

- SK. Kurtural 2009. The Five-Steps of Canopy Management in the SJV, Fresno, CA.
- C.J. Smigell, J. Strang, S.K. Kurtural 2008. 33rd ASEV/ES Annual Conference and Symposium Program 12-14 July 2008 St. Catharines Ontario, Canada.
- S.B. O'Daniel, S.K. Kurtural 2008. Effect of Pruning Severity on Microclimate, Yield Components and Crop Load of Traminette. 33rd ASEV/ES Annual Conference and Symposium Program 12-14 July 2008 St. Catharines Ontario, Canada.
- P.E. Wilson, D.A. Archbold, S.K. Kurtural 2008. Effects of Pruning Severity and Cluster Thinning on Vigor, Yield, Fruit Composition and Crop Load of Vidal Blanc Grapevines. 33rd ASEV/ES Annual Conference and Symposium Program 12-14 July 2008 St. Catharines Ontario, Canada.
- SK. Kurtural 2008. Mechanical Management of Grapevine Canopies in the SJV. Lodi Grape Expo. Lodi, CA.
- DK. Hammons, SK. Kurtural, DA. Potter 2007. Impact of Japanese beetle defoliation on young grapevines. 32nd ASEV/ES Annual Conference and Symposium Program 10-12 July, King of Prussia, PA USA.
- P.E. Wilson, DA. Archbold, TH. Cottrell, SK. Kurtural 2007. Effect of crop load, vigor, yield, and wine phenolics of Vidal blanc grapevines. 2nd Int. Symp. On Human Health and Effects of Fruits and Vegetables ISHS 9-13 Oct. 2007. Houston, TX USA.
- SK. Kurtural, IE. Dami 2007. Geographic Information Systems Assist with Site Selection of Vineyards in Midwestern United States. 2007 Ann. ASHS Conf. Scottsdale, AZ USA.
- S. Gu. K. Pomper, SK. Kurtural 2007. Effect of stylet oil on bud break delay of wine grapes. 2007 Ann. ASHS Conf. Scottsdale, AZ USA.
- DL. Hammons, SK. Kurtural, DA. Potter 2007. Impact of Japanese beetle defoliation on young grapevines. Entomological Society of America 55th Annual Mtg. San Diego, CA USA.
- DL. Hammons, SK. Kurtural, DA. Potter 2006. Green June Beetle and Japanese Beetle Feeding interactions in Grapes. Entomological Society of America 54th Annual Mtg. Indianapolis, IN USA.
- J. Masabni, SK. Kurtural, D. Wolfe, C. Smigell 2006. Effect of Cropload on Eastern European Grapevine Cultivars. 27-30 July 2006 ASHS Ann. Conf. New Orleans, LA USA.
- SK. Kurtural, IE. Dami. 2006. Effect of experimental year and soil pH on vigor, dry matter partitioning and mineral nutrient uptake of Norton grapevines. 9-11 July 2006 31st ASEV/ES Annual Conference and Symposium, Rochester, NY USA.
- SK. Kurtural, IE. Dami 2006. Effect of pruning and cluster thinning on crop load, periderm browning, cold hardiness and fruit composition of Chambourcin in the Continental Climate. 6-10 February 2006. 6th International Cool Climate Symposium on Viticulture and Enology, Christchurch, New Zealand.

- SK. Kurtural, IE. Dami, BH. Taylor 2005. A Vineyard Site Assessment Model for Southern Illinois Using Geographic Information Systems. 30th ASEV/ES Annual Conference and Symposium Program 13-16 July, St. Louis, MO, USA.
- SK. Kurtural, IE. Dami, BH. Taylor 2004. Balanced Cropping of Chambourcin in the lower Midwest Environment. II 29th ASEV/ES Annual Conference and Symposium Program 14-16 July 2004.
- IE. Dami. DC. Ferree, SK. Kurtural, BH. Taylor 2004. Influence of cropload on Chambourcin yield, fruit quality, and winter hardiness under Midwestern United States condition. 7th International Symposium on Grapevine Physiology and Biotechnology. 21-25 June Davis, California.
- SK. Kurtural, IE. Dami, BH. Taylor, SE. Ebbs 2004. Open-top chamber for measuring whole-vine photosynthesis in the vineyard. 55th ASEV Annual Meeting. 30 June-2 July 2004.
- SK. Kurtural, IE. Dami, BH. Taylor 2003. Balanced cropping of Chambourcin in the lower Midwest Environment. I. 28th ASEV/ES Annual Conference and Symposium 9-11 July 2003.
- IE. Dami, SK. Kurtural, M. Babadoost, R. Weinzierl 2003. Integrated Disease and Insect Management Programs for Norton Grapevines in the Midwest. 54th ASEV Annual Meeting 18-20 June 2003.
- SK. Kurtural, BH. Taylor 2002. Effects of root pruning and supplemental irrigation on net carbon exchange, transpiration and water relations of peach. 26th International Horticulture Congress Toronto, Canada.
- A. Walters, SK. Kurtural, BH. Taylor, J. Swenson, 2001. Watermelon Mosaic Virus Infection of Susceptible and Resistant Yellow Squash and Related Effects on Net Photosynthesis. American Society for Horticultural Science Annual Mtg. Sacramento, Calif.
- SK. Kurtural, BH. Taylor 2000. Growth, yield and whole canopy photosynthesis of peach to timing of root pruning and irrigation. 7th International Symposium of Orchard and Plantation Systems. Nelson, New Zealand.
- BH. Taylor, GH. Moonga, SK. Kurtural, D. Geisler-Taylor, 2000. Interstem/rootstock combinations influence stem and leaf characteristics of spurs and extension shoot of Ruby Jon Apple. 7th International Symposium of Orchard and Plantation Systems. Nelson, New Zealand.

13. Invited presentations

- Managing wine grapes under extended drought - Illinois Grape Growers and Vintner's Association Ann. Mtg. 1-2 Feb 2013, Springfield, IL
- Farming for flavor and phenolics - Allied Grape Growers/Constellation Brands Grower Education Series 2013, Fresno, CA
- Achieving Vine Balance with Mechanized Canopy Management and Deficit Irrigation 2011 - Constellation Wines US Ann. Technical Conference, May 11. Shell Beach, CA
- Training Wine Grapes on Single Canopy Trellising Systems 2010 - Bronco Wine Company July 7, Minturn, CA

- Interactive Effects of Mechanical Canopy Management and Regulated Deficit Irrigation on Shiraz Grapevines 2010 - American Vineyard Foundation Research Road Show June 18, Fresno, CA
- Mineral Nutrition of Wine Grapes 2010 - Bronco Wine Company May 16, Farmington, CA
- Overview of Research and Outreach Programs and Bronco Wine Co. Labs at CSU Fresno, 2010 - E.J. Gallo Wine Co. Modesto, CA March 2010.
- Canopy Management of Winegrapes 2010 - Unified Symposium Sacramento, CA
- Vine Mealybug Update 2009 - Allied Grape Growers Thompson Growers Symposium Kerman, CA
- Interactive Effects of Mechanized Canopy Management and Timing of RDI Stress on Grapevines 2009 - American Vineyard Foundation Board Mtg. Napa, CA
- Current approaches to site selection using GIS Technologies 2007 - Wineries Unlimited, King of Prussia, PA
- Mesoclimate site selection using GIS Technologies 2007 - Site Selection Workshop Ohio Agr. Res. Dev. Cent., Wooster, OH
- Harvest Parameters and Ripening in Wine Grapes 2006 - Ill. Grape Growers and Vintners Assoc. Summer Mtg. Carbondale, IL
- Canopy Management in Divided Canopies 2005 - Ill. Grape Growers and Vintners Assoc. Summer Mtg. Carbondale, IL

14. Peer reviewed publications

- C.C. Nelson, JA Kennedy, Y. Zhang and S.K. Kurtural. 2015. Applied water and rootstocks affect productivity and anthocyanin composition of Zinfandel in central California. *Amer. J. Enol. Vitic.* 66:4
- M. G. Cook, Y. Zhang, C. Nelson, G. Gambetta, J.A. Kennedy and S.K. Kurtural. 2015. Anthocyanin composition of Merlot is ameliorated by light microclimate and irrigation in central California. *Amer. J. Enol. Vitic.* 66:3.
- P. Wilson, D. Archbold, J. Masabni and SK. Kurtural, 2014. Balanced cropping of Vidal blanc (*Vitis* spp.) improves primary bud cold hardiness and maintains yield and berry composition in warm climate. *HortScience* 49: 474-480.
- SK. Kurtural, LF. Wessner, G Dervishian, 2013. Vegetative Compensation Response of a Procumbent Grapevine (*Vitis vinifera* L.) Cultivar in Response to Mechanical Canopy Management *HortScience* 43:1-8 (cover page article)*
- A. Shrestha, SK. Kurtural, MW. Fidelibus, G. Dervishian, S. Konduru, 2013. Efficiency and cost-effectiveness of cultivators, steam, or an organic herbicide in weed control and vine productivity in organic vineyards in the San Joaquin Valley. *HortTechnology* 23:99-108 (cover page article)*
- JP. Geller, SK. Kurtural 2013. Mechanical canopy and crop load of Pinot gris in a warm climate. *Amer. J. Enol. Vitic.* 64:65-73.

- LF. Wessner, SK. Kurtural 2013. Pruning systems and canopy management interact on yield and wine composition of Syrah. *Amer. J. Enol. Vitic.* 64:134-138.
- SK. Kurtural, G. Dervishian, RL. Wample 2012. Mechanical canopy management maintains yield and reduces labor operation costs of Cabernet Sauvignon grape production. *HortTechnology* 22(4): 509-516.
- B. O'Daniel, D. Archbold, SK. Kurtural 2012. Balanced pruning formula for Traminette (*Vitis* spp.) under Warm Climates *Amer. J. Enol. Viticult.* 63: 284-290.
- DB. Terry, SK. Kurtural, 2011. Achieving vine balance of Syrah with mechanical canopy management and regulated deficit irrigation. *Amer. J. Enol. Viticult.* 62: 427-436.
- DL. Hammons, SK. Kurtural, DA. Potter 2010. Impact of insecticide manipulated defoliation by Japanese beetle on grapevines from vineyard establishment through production. *Pest Management Science.* 66(5): 565-571.
- DL. Hammons, SK. Kurtural, DA. Potter 2010. Japanese beetle defoliation reduces primary bud cold hardiness during vineyard establishment. *Amer. J. Enol. Viticult.* 61: 130-134.
- DL. Hammons, SK, Kurtural, DA. Potter 2010. Phenological resistance of grapes to the green June beetle, an obligate fruit-eating scarab. *Annals of Applied Biology* 156: 271-279.
- DL. Hammons, SK. Kurtural, M. Newman, DA. Potter 2009. Invasive scarab facilitates yeast mediated host location behavior of a native fruit-feeding scarab pest of grapes. *Proc. Nat. Acad. Sci. (USA).* 106:3686-3691.
- DL. Hammons, S.K. Kurtural, DA. Potter 2008. Japanese beetles facilitate feeding by green June beetles on ripening grapes. *Environ. Entomol.* 37:608-614.
- SK. Kurtural, IE. Dami, BH. Taylor 2007. Utilizing GIS Technologies in Selection of Suitable Vineyard Sites. *Int. J. Fruit Science* 6(3): 87-107.
- SK. Kurtural, IE. Dami, BH. Taylor 2006. Effects of pruning and cluster thinning on yield and fruit composition of Chambourcin grapevines. *HortTechnology* 16(2):233-240.
- SA. Walters, SK. Kurtural, BH. Taylor 2005. Influence of Watermelon Mosaic Virus on Net Photosynthesis, Yields and Farm Gate Revenues of Yellow Squash. *J. Vegetable Science.* 11 (4): 61-70.
- IE. Dami. DC. Ferree, SK. Kurtural, BH. Taylor 2005. Influence of cropload on Chambourcin yield, fruit quality, and winter hardiness under Midwestern United States conditions. *Acta Hort. (ISHS)* 689:203-208.
- SK. Kurtural, BH. Taylor, 2004. Effects of root pruning and supplemental irrigation on net carbon exchange, transpiration and water relations of peach *Acta Hort. (ISHS)* 636:95-103.
- SK. Kurtural, BH. Taylor 2001. Growth yield and whole canopy photosynthesis response of peach to timing of root pruning and irrigation. *Acta Hort. (ISHS)* 557:385-390

- BH. Taylor, GH. Moonga, SK. Kurtural, D. Geisler-Taylor 2001. Interstem/rootstock combinations influence stem and leaf characteristics of spurs and extension shoot of Ruby John apple trees Acta Hort. (ISHS) 557:169-174.

15. Submitted manuscripts

- S. Pinnell, Y. Zhang, DB. Terry, NK. Dokoozlian, SK. Kurtural, 2015. Mechanical crop load management and regulated deficit irrigation alter vegetative aroma and phenolic composition of a procumbent grapevine (*Vitis vinifera* L.) in climate. HortScience (in review).

16. Prepared manuscripts

- CJ. Nelson,, JA. Kennedy, SK. Kurtural, 2015. Pruning systems and irrigation restriction affect flavonoid development of Zinfandel in warm climate. Amer. J. Enol. Viticult.
- CJ. Nelson, MW. Fidelibus, JA. Kennedy, SK. Kurtural, 2015. Rootstocks and irrigation method interact on yield and phenolic composition of Zinfandel in the hot climate. Amer. J. Enol. Viticult.
- M. Cook, JA. Kennedy, SK. Kurtural 2015. Concentration, proportion and hydroxylation of anthocyanins are affected by interaction of light and irrigation management in Merlot grapevine. Amer. J. Enol. Viticult.
- SK. Kurtural, C. Smigell, J. Strang 2015. Training systems and Production Efficiency of European and French-American Hybrid Cultivar in Warm Climate. HortTechnology.
- D. Langone, K. Daane, SK. Kurtural 2015. Area wide mating disruption of vine mealybug is assisted by pheromone placement in wine grapes. Amer. J. Enol. Viticult.
- JP. Geller, NK. Dokoozlian, N. Ebisuba, SK. Kurtural 2015. Mechanical crop load management of Pinot gris affects odor activity values Pinot gris grown in warm climates. Amer. J. Enol. Vitic

17. Peer reviewed extension publications

- Midwest Commercial Small Fruit and Grape Spray Guide ID-94 (2005, 2006,2007,2008)
- Desired soil properties for vineyard site preparation (UK, HortFact 31-01)
- Vineyard Site Selection (UK, HortFact 31-02)
- Vineyard Design (UK, HortFact 31-03)
- Fertilization of Vineyards (UK, HortFact, 31-04)
- Acidification of Vineyard Soils (UK, HortFact, 31-05)
- Dormant Pruning of Wine Grapes (UK, HortFact, 31-07)
- Calibration of Airblast Sprayers (UK, HortFact, 31-10)
- Grape rootstocks for Kentucky vineyards (UK, HortFact, 31-13)
- Vineyard site preparation (UK, HortFact, 31,12)
- Crop estimation in vineyards (UK, CES HO-86)

- Kentucky Viticultural Regions and Selected Cultivars (UK, CES HO-87)
- Vineyard Site Selection Based on Climate and Soil Properties (UK,CES HO-88)
- SK. Kurtural, IE. Dami, DC. Fiacchino 2008. Mapping grape growing regions for Kentucky. Univ. Ken. Ag. Expt. Sta. 2005 Fruit and Vegetable Crops Research Report 521:22-23.
- PE. Wilson, SB. O'Daniel, SK. Kurtural 2008. Effects of pruning and cluster thinning on canopy microclimate, yield and fruit composition of Vidal blanc grapevines Univ., Ken. Ag. Expt. Sta. 2006 Fruit and Vegetable Crops Research Rpt. 538: 22-24.
- SB. O'Daniel, PE. Wilson, SK. Kurtural 2008. Effects of pruning and cluster thinning on yield and fruit composition of Traminette grapevines. Univ., Ken. Ag. Expt. Sta. 2006 Fruit and Vegetable Crops Research Rpt. 538: 25-27.
- DL. Hammons, SK. Kurtural, DA. Potter 2008. Evaluating host plant resistance and impact of Japanese beetle defoliation on young grapevines. Univ., Ken. Ag. Expt. Sta. 2006 Fruit and Vegetable Crops Research Rpt. 538:31.
- PE. Wilson, YA. Karatas, SK. Kurtural 2008. Effects of Pruning and Cluster Thinning on Microclimate, Yield, and Fruit Composition of Vidal Blanc Grapevines Univ., Ken. Ag. Expt. Sta. 2007 Fruit and Vegetable Crops Research Rpt.555:26-28.
- PE. Wilson, DA. Archbold, SK. Kurtural 2008. Effect of pruning and cluster thinning on crop load and cold hardiness of Vidal blanc grapevines Univ., Ken. Ag. Expt. Sta. 2007 Fruit and Vegetable Crops Research Rpt.555:23-25.
- D. Hammons, SK. Kurtural, DA. Potter 2008 Impact of Japanese beetle defoliation on overwintering ability of first year grapevines. Univ., Ken. Ag. Expt. Sta. 2007 Fruit and Vegetable Crops Research Rpt.555:35-36.
- PE. Wilson, TH. Cottrell, DA. Archbold, SK. Kurtural, 2008. Effect of Crop Load on Vigor, Yield and Fruit Composition and Wine Phenolics of Vidal Blanc Grapevines. Univ., Ken. Ag. Expt. Sta. 2007 Fruit and Vegetable Crops Research Rpt.555:29-32.
- SK. Kurtural, D. Wolfe, J. Masabni, SB. O'Daniel, C. Smigell, YA. Karatas 2008. 2000 Wine grape cultivar trial. Univ., Ken. Ag. Expt. Sta. 2007 Fruit and Vegetable Crops Research Rpt.555:18-19.
- PE. Wilson, E. Kunze, SK. Kurtural 2008. A Comparison of Ectoparasitic Nematode Populations in American and French-American Hybrid Grapevines. Univ., Ken. Ag. Expt. Sta. 2007 Fruit and Vegetable Crops Research Rpt. 555:32-35.
- SB. O'Daniel, PE. Wilson, YA. Karatas, SK. Kurtural 2008. Effect of pruning formula on yield and fruit composition of Traminette grapevines. Univ., Ken. Ag. Expt. Sta. 2007 Fruit and Vegetable Crops Research Rpt.555:21-22.
- SK. Kurtural, J. Strang, C. Smigell, YA. Karatas, PE. Wilson, SB. O'Daniel, 2008. Effect of Training Systems on Vine Size, Yield Components and Fruit Composition of European Grapevines. Univ., Ken. Ag. Expt. Sta. 2007 Fruit and Vegetable Crops Research Rpt. 555:18-20.

- SK. Kurtural, J. Masabni, 2008. Kentucky viticultural regions and selected cultivars. Univ. Ken. Ag. Expt. Sta. 2007 Fruit and Vegetable Crops Research Rpt. 555:16-18.
- JG. Strang, SK. Kurtural, C. Smigell, SB. O'Daniel, PE. Wilson, E. Kunze 2007. Vinifera grape training trial. Univ., Ken. Ag. Expt. Sta. 2006 Fruit and Vegetable Crops Research Rpt. 538: 36-37.
- J. Strang, SK. Kurtural, C. Smigell, A. Satanek, SB. O'Daniel 2006. Vinifera grape training trial. Univ. Ken. Ag. Expt. Sta. 2005 Fruit and Vegetable Crops Research Report 521: 31-33.
- J. Masabni, SK. Kurtural, D. Wolfe, SB. O'Daniel, C. Smigell, J. Johnston, H. Rogers 2006. 2000 Wine grape cultivar trial. University of Ken. Ag. Expt. Sta. 2005. Fruit and Vegetable Crops Research Report 521: 24-25.

18. Edited trade publications

- D. Langone, SK. Kurtural, KM. Daane, 2014. Mating disruption of vine mealybug. Vines and Wine Spring 2014.
- S. Pinnell, SK. Kurtural 2012. Improving phenolic composition of Syrah. Practical Winery and Vineyard Management Spring 2012.
- SK. Kurtural, R. Wample, R. Smithyman, 2011. Differential harvesting in winegrape vineyards. Practical Winery and Vineyard Management Summer 2011.
- SK. Kurtural, 2011. Integrating steps in canopy management with mechanization. Practical Vineyard and Winery Management Spring 2011.
- SK. Kurtural 2011. Mechanized canopy management: Fresno State trials show yield, quality, cost benefits. Vineyard and Winery Management April-May 2011.
- SK. Kurtural 2010. Canopy management trials help restore winegrape harvest. California Agricultural Technology Institute Fall Update.
- SK. Kurtural 2010. Researchers look to improve wine grape quality without hurting yields. August 2010 Western Farm Press.
- SK. Kurtural 2009. Field research addresses vine mealybug infestation. California Agricultural Technology Institute Winter Update.

19. Book chapters

- Vineyard Mechanization 2015, In: Midwest Grape Production Guide. ed. Imed E. Dami. The Ohio State University Cooperative Extension Service. Bulletin 919.

20. Certifications

- Agilent Technologies – Techniques of the Modern HPLC

21. Patents

- Method for training grapevine plants. USPTO #14223703 on 24 Mar. 2014.

22 References

- Anil Shrestha, Professor. Dept. Plant Science California State University, Fresno tel: +1 599 278-5784 e-mail:ashrestha@csufresno.edu
- Imed Dami. Associate Professor, OARDC Tel: +1 330 263-3882 e-mail: dami.1@osu.edu
- Douglas D. Archbold, Professor. Dept. Horticulture University of Kentucky Tel: +1 859 257- 3356 e-mail:darchbol@uky.edu