

CURRICULUM VITA

JEREMY S. COWAN

Assistant Professor – Sustainable Food Production Systems
Kansas State University, Department of Horticulture and Natural Resources
2021 Throckmorton P.S.C., 1712 Claflin Rd., Manhattan, KS 66547

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EDUCATION

A. Degrees Earned

- 2013 Ph.D., Horticulture, Washington State University, Pullman, WA
Dissertation: *The Use of Biodegradable Mulch for Tomato and Broccoli Production: Crop Yield and Quality, Mulch Deterioration, and Growers' Perceptions*
Graduate Certificate: *Sustainable Agriculture*
- 2007 M.B.A., *Marketing and New Venture Management*, University of San Diego, San Diego, CA
- 2003 B.S., Horticulture, Brigham Young University, Provo, UT

B. Certificates and Licenses

- 2017 Permaculture Teacher Training (Certificate), Permaculture Institute of North America, Shawnigan Lake, British Columbia, Canada
- 2016 Permaculture Research Design Certificate, Odiaxere, Portugal
- 2015 Permaculture Design Certificate, Permaculture Research Institute and the Northern School of Permaculture, Rhynie, Scotland
- 2010 – 2017 Pesticide Applicator License (Public Operator), Washington State Department of Agriculture
- 2003 – 2006 ISA Certified Arborist®, International Society of Arboriculture

EMPLOYMENT

A. University Related

- 5/2018 – present Assistant Professor, Kansas State University, Department of Horticulture and Natural Resources, Manhattan, KS
- 10/2017– 5/2018 Director, Washington State University Spokane County Extension, Spokane, WA
- 9/2014 – 5/2018 Assistant Professor, Regional Horticulture Specialist, E-2, Washington State University Extension, Spokane, WA
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- 2/2016 – 10/2017 Interim Director, Washington State University Spokane County Extension, Spokane, WA
- 11/2013 – 8/2014 Regional Extension Specialist, E-2, Horticulture, Washington State University Spokane County Extension, Spokane, WA
- 5/2013 – 9/2013 Post-doctoral Research Assistant, Northwestern Washington Research and Extension Center, Washington State University, Mount Vernon, WA
- 1/2010 – 5/2013 Graduate Research Assistant, Department of Horticulture, Washington State University, Pullman, WA / Mount Vernon, WA
- 2003 Graduate Research Assistant, Department of Plants, Soils, and Biometeorology, Utah State University, Logan, UT

B. Relevant Professional Experience

- 2013 – 2018 Co-owner, CHI Farms, Cheney, WA
- 2006 – 2008 Owner & Project Manager, CHI Landscape, Escondido, CA
- 2004 Enhancements Manager, Valley Crest Landscape Maintenance, San Diego, CA
- 2003 Project Specialist, Teufel Landscape, Portland, OR
- 2002 Project Manager, TF Landscaping, Provo, UT

HONORS AND AWARDS

- 2019 – present Gamma Sigma Delta Honor Society Member, Kansas State University Chapter, Manhattan, KS
- 2012 – 2013 Eldred L. Jenne Fellow, Washington State University, College of Agricultural, Human, and Natural Resource Sciences

GRANTS, CONTRACTS, AND FUND GENERATION ¹

A. Grants and Contracts

- 2023 – 2027 USDA-NIFA-REEU – Green Ag Teams: Urban-Rural Data and Technology Agricultural Training Exchange (URDaTA). **\$750,000**. P.D.: A. Tuininga, Co-PIs: N. Goodey, **J. Cowan**, A. Jumpponen (**3-5, \$177,042**).
- 2023 – 2027 Haskell (HINU) Extension Sustainable Ag – Education and technical support for vegetable production in protected environments in Kansas Native American communities. **\$250,678**. P.D.: C. Barden, Co-PIs: **J. Cowan**, C. Rivard, and M. Young (**5, \$60,000**).

¹ Key to indicators or description of contributions to Grants, Contracts and Fund Generation: 1 = Provided the initial idea; 2 = Developed research/program design and hypotheses; 3 = Authorship of grant application; 4 = Developed and/or managed budget; 5 = Managed personnel, partnerships, and project activities.

- 2022 – 2023 KDA SCBG - Generating youth interest in specialty crop production through expanded programming at Willow Lake Student Farm. **\$71,708**. P.D.: **J. Cowan**. (1-5, **\$71,708**)
- 2022 – 2023 KDA SCBG - Controlling the growth of foodborne pathogens in soil-substitute microgreen production systems. **\$56,679**. P.D.: V. Trinetta, Co-P.I.s: **J. Cowan**, U. Yucel, P. Amama. (2 – 3, 5, **~\$2,500**)
- 2022 – 2023 KDA SCBG - Enhancing Specialty Crop Farmer Competitiveness Statewide Through Online Education and Mentorship. **\$54,194**. P.D.: C. Rivard, Co-P.I.s: L. Nwadike, **J. Cowan**, E. Pliakoni. (5, **\$0**)
- 2022 – 2023 K-State Facilities Repair and Renovation Funding –Willow Lake Student Farm; Kansas State University Facilities; **\$4,700**. P.D.: **J. Cowan** (1-5, **\$4,700**)
- 2022 – 2023 KCSAAC Mini Grant – Mushroom Autoclave. **\$8,343**. P.D.: **J. Cowan** (1-5, **\$8,343**)
- 2022 – 2023 U.S. Consulate, Lagos, Nigeria–Small Grants – Permaculture Design Certificate Course in Sustainable Agriculture PDC, Lagos; **\$32,561**. P.D.: S. Olalekan, Co-P.I.: **J. Cowan** (1-2, **\$8,600**).
- 2021 – 2022 K-State Facilities Repair and Renovation Funding –Willow Lake Student Farm; Kansas State University Facilities; **\$22,100**. P.D.: **J. Cowan** (1-5, **\$22,100**)
- 2021 – 2022 KCSAAC Mini Grant – Farm Management Support. **\$20,000**. P.D.: **J. Cowan** (1-5, **\$20,000**)
- 2021 – 2022 KCSAAC Mini Grant – Cold-Storage for Willow Lake Student Farm. **\$10,000**. P.D.: **J. Cowan** (1-5, **\$10,000**)
- 2020 – 2023 USDA-AFRI-FAS – Agricultural Landscape Management for Improved Sustainability: Quantifying Relationships, Barriers and Opportunities. **\$498,870**. P.D.: K. Nelson, Co-PIs: E. Burchfield, **J. Cowan** (2-5, **\$134,865**)
- 2020 – 2021 KDA SCBG - Building capacity for education and research opportunities at Kansas State University’s Willow Lake Student Farm. **\$55,692**. P.D.: **J. Cowan** (1-5, **\$55,692**)
- 2020 – 2021 KCSAAC Mini Grant - Evaluating Hugelkultur for Season Extension and Mushroom Production. **\$9,626**. P.D.: **J. Cowan** (1-5, **\$9,626**)
- 2019 – 2021 USDA-SARE-PDP – Capacity Building in Urban Food Systems in the North Central Region. **\$89,443**. P.D.: C. Rivard, Co-P.I.s: E. Pliakoni, C. Shoemaker, **J. Cowan**, and L. Nwadike (2019 – 2021) (3, 5, **\$0**)
- 2019 – 2020 K-State Facilities Repair and Renovation Funding –Willow Lake Student Farm; Kansas State University Facilities; **\$16,600**. P.D.: **J. Cowan** (1-5, **\$16,600**)
- 2017 – 2018 Risk Management Mentoring and Education Program for Veteran Beginning Farmers and Ranchers. Western Center Extension Risk

- Management Education. \$37,674. P.D.: V. Carter, Co-P.D.: P. Munts, Co-PI: **J.S. Cowan**. (4/17 – 9/18) **(2, 5, \$5,941)**
- 2016 – 2018 WSU Water Irrigation System Efficiency (WISE). USDA NRCS Conservation Innovation Grant. \$455,979. P.D.: D. McMoran, Collaborators.: T. Peters, T. Lane, L. McLean, **J. Cowan**, S. Grey, V. DeKok. (9/16 – 9/18) **(5, \$8,000)**
- 2015 – 2016 Outreach and Assistance for Socially-disadvantaged and Veteran Farmers and Ranchers in the Inland Northwest. Office of Advocacy and Outreach, U.S. Department of Agriculture. \$40,770. Co-P.I.: P. Munts, **J. Cowan**. (9/15 – 8/16) **(1 – 4, \$7,855)**
- 2014 – 2019 USDA-NIFA-SCRI – Performance and Adoptability of Biodegradable Plastic Mulch for Sustainable Specialty Crop Production. \$2,284,391. P.D.: D. Hayes, Co-P.D.: J. DeBruyn, P.I.: M. Flury, J. Goldberger, D. Inglis, T. Marsh, C. Miles, A. Wszelaki, E. Belasco, C. Benedict, C. Cogger, **J. Cowan**, J.M. Fly, S. Galinato, A. Saxton, S. Schaeffer, S. Schexnayder, P. Tozer, M. Velandia, L. Wadsworth. (9/14 – 8/20) **(2, 4 – 5, \$48,616)**
- 2014 – 2016 WSU plasticulture website development. WSU CSANR BIOAg Extension Grant. \$4,996. P.I. **J.S. Cowan**, C. Miles. (7/14 – 6/16) **(2 – 5, \$4,996)**
- 2016 Washington State SARE PDP Grant. Washington State University, Center for Sustaining Agriculture and Natural Resources. \$1,000. P.I. **J.S. Cowan**. (9/16 – 12/16) **(1 – 5, \$1,000)**
- 2014 – 2015 CAHNRS Internship. Washington State University, College of Agricultural, Human, and Natural Resource Sciences. \$2,500. P.I. **J.S. Cowan**. (4/14 – 4/15) **(1 – 5, \$2,500)**
- 2015 Washington State SARE PDP Grant. Washington State University, Center for Sustaining Agriculture and Natural Resources. \$1,000. P.I. **J.S. Cowan**. (4/15 – 12/15) **(1 – 5, \$1,000)**
- 2014 Washington State SARE PDP Grant. Washington State University, Center for Sustaining Agriculture and Natural Resources. \$2,000. P.I. **J.S. Cowan**. (6/14 – 12/14) **(1 – 5, \$2,000)**
- 2011 Graduate student travel grant. WSU Graduate & Professional Student Association. \$447. P.I.: **J.S. Cowan**. (6/11 – 9/11) **(1 – 5, \$447)**
- 2010 – 2011 Effect of high tunnels and biodegradable mulches on tomato fruit quality and yield. WSU CSANR BIOAg Grant. \$22,684. P.I.: C. Miles, K. Leonas, P. Andrews and Collaborators: D. Inglis. (5/10 – 6/11) **(1 – 4, \$22,684, grant funded a portion of my graduate program)**

B. MOA's and funding secured from Public, Non-profit, and Private entities

- 2022 – 2026 Memorandum of Agreement. Kubota U.S.A., Great Plains Mfg., Land Pride Implement Program Support and No-cost Equipment Lease. P.I.: **J. Cowan**. (2022 – 2026) **(1 – 5, ~\$180,000)**

- 2017 Memorandum of Agreement. Spokane County. \$268,607. P.I.: **J. Cowan**. (1/18 – 12/18) **(1 – 5, \$268,607)**
- 2016 Memorandum of Agreement. Spokane County. \$268,607. P.I.: **J. Cowan**. (1/17 – 12/17) **(1 – 5, \$268,607)**
- 2015 Memorandum of Agreement. Master Gardener Foundation of Spokane County. \$35,000. P.I.: **J. Cowan**. (1/16 – 8/18) **(1 – 5, \$35,000)**

C. Grant Proposals – Unfunded

| Year | Total Grants | Total Dollars |
|------|--------------|---------------|
| 2022 | 2 | \$15,094 |
| 2021 | 10 | \$24,474,291 |
| 2020 | 4 | \$744,875 |
| 2019 | 11 | \$10,343,048 |
| 2018 | 6 | \$2,896,424 |
| 2017 | 2 | \$920,158 |
| 2016 | 2 | \$771,472 |
| 2014 | 2 | \$133,955 |
| 2010 | 1 | \$450 |
| 2003 | 1 | \$170,000 |

PUBLICATIONS AND CREATIVE WORK ²

A. Journal Articles, Peer Reviewed

Journal or Similar Publication

Jenkins, T, **J. Cowan**, C.L. Rivard, and E.D. Pliakoni. 2022. Effect of rootstock on ‘Tasti-Lee’ tomato yield and fruit quality in a high tunnel production system. *HortScience* 57(10):1235-1241, <https://doi.org/10.21273/HORTSCI16634-22>. **(2, 6)**

Buajaila, F., **J. Cowan**, L. Carpenter-Boggs, D. Inglis, and C. Miles. 2021. Effect of nitrogen source on growth, nitrate content, and yield of grafted and non-grafted tomato in high tunnel production in northwestern Washington. *Canadian Journal of Plant Science* 102(1):33-48, <https://doi.org/10.1139/CJPS-2020-0342>. **(4 – 6)**

Cowan, J., A. Saxton, H. Liu, K.K. Leonas, D.A. Inglis, and C.A. Miles. 2016. Visual assessments of biodegradable mulch deterioration are not indicative of changes in mechanical properties. *HortScience* 51(3):245-254. **(1, 3 – 6)**

² Key to indicators or description of contributions to Publications and Creative Work: 1 = Developed the initial idea; 2 = Obtained or provided funds or other resources; 3 = Collected data; 4 = Analyzed data; 5 = Wrote/created product; 6 = Edited product.

- Cowan, J.**, J. Goldberger, C. Miles, and D. Inglis. 2015. Creating tactile space during a university Extension field day event: The case of a sustainable agriculture innovation. *Rural Sociology* 80(4):456-482. doi: 10.1111/ruso.12073. **(1, 3 – 6)**
- M. Powell, B. Gundersen, **J. Cowan**, C.A. Miles, and D.A. Inglis. 2014. The effect of open-ended high tunnels in western Washington on late blight and physiological leaf roll for five tomato cultivars. *Plant Disease* 98(12):1639-1647. doi:10.1094/PDIS-12-13-1261-RE. **(3, 4, 6)**
- Cowan, J.S.**, C.A. Miles, P.K. Andrews, and D.A. Inglis, 2014. Biodegradable mulch performed comparable to polyethylene in high tunnel tomato (*Solanum lycopersicum* L.) production. *J. Sci. Food Agric.* 94(9):1854-1864. doi: 10.1002/jsfa.6504. **(1, 3 – 6)**
- Cowan, J.S.**, D.A. Inglis, and C.A. Miles. 2013. Deterioration of three potentially biodegradable plastic mulches before and after soil incorporation in a broccoli field production system in northwestern Washington. *HortTechnology* 23(6):849-858. **(1, 3 – 6)**
- Powell, M., **J. Cowan**, C. Miles, and D.A. Inglis. 2013. Effect of a high tunnel, organic cropping system on lettuce diseases in western Washington. Online. *Plant Health Progress* doi:10.1094/PHP-2013-0922-01-RS. **(3, 4, 6)**
- Miles, C.A., R. Wallace, A. Wszelaki, J. Martin, **J. Cowan**, T. Walters, and D. Inglis. 2012. Deterioration of potentially biodegradable alternatives to black plastic mulch in three tomato production regions. *HortScience* 47(9):1270-1277. **(3, 4, 6)**
- Wallace, R. A. Wszelaki, C. Miles, **J. Cowan**, J. Martin, J. Roozen, B. Gunderson, and D. Inglis. 2012. Lettuce yield in high tunnels and open-field production systems under three diverse climates. *HortTechnology* 22(5):659-668. **(3, 4, 6)**

Other Refereed or Peer Reviewed

- Inglis, D., B. Gundersen, J. Roozen, **J. Cowan**, M. Powell, and C. Miles. 2012. Evaluation of physiological leaf roll on tomato cultivars in a high tunnel production system, 2011. *Plant Dis. Mgmt. Rep.* 6:V155. **(3, 4, 6)**

B. Extension Publications, Peer Reviewed

- Ghimire, S., D. Hayes, **J. Cowan**, D. Inglis, L. DeVetter, and C. Miles. 2018. Biodegradable plastic mulch and suitability for sustainable and organic agriculture. Washington State University Extension Fact Sheet #FS103E. Apr. 2018 **(5,6)**
- Fredricks, G., **J.S. Cowan**, C. Daniels. 2014. Growing tomatoes in home gardens. Washington State University Extension Fact Sheet #FS145E. Sep. 2014 **(3, 5, 6)**
- Corbin, A.T., C. Miles, **J. Cowan**, D. Hayes, J. Moore-Kucera, and D. Inglis. 2013. Current and future prospects for biodegradable plastic mulch in certified organic production systems. *eOrganic*: 67951. **(5, 6)**
- Corbin, A., **J. Cowan**, C. Miles, D. Hayes, J. Dorgan, and D. Inglis. 2013. Using biodegradable plastics as agricultural mulches. Washington State University Extension Fact Sheet #FS103E. Jan 2013. **(1, 5, 6)**

C. Creative Scholarship in Juried Events

Conference Proceedings

- Hazan, S. and **J.S. Cowan**. 2021. Establishing hügelkultur for season extension research, specialty crop production, and permaculture education. Proceedings 2020 Urban Food Systems Symposium, Kansas City, KS (Virtual). (Accepted)
- Olalekan, S.A., and **J.S. Cowan**. 2020. The role of home gardens in fighting extreme poverty and hidden hunger in Lagos, Nigeria. Proceedings from International Conference on Sustainable Development 2020. Available at < <https://ic-sd.org/wp-content/uploads/2020/11/Olalekan-Sipasi.pdf>>
- Corbin, A., **J. Cowan**, C. Miles, D. Hayes, J. Dorgan and J. Roozen. 2012. Suitability of biodegradable plastic mulches in certified organic production. Proceedings 2012 NOFA Conference, Saratoga Springs, NY.
- Leonas, K.K., L. Wadsworth, H. Liu, D.G. Hayes, R. Wallace, C. Miles, **J. Cowan**, A. Wszelaki, J. Martin, and D. Inglis. 2011. Degradable agricultural mulch, a technical textile: Year 1 of a comprehensive field study. Proceedings International Textile and Apparel Association Annual Conference, Philadelphia, PA.
- Li, C., M. Davinic, L. Fultz, J. Lee, R. Wallace, J. Martin, **J. Cowan**, R. Raley Jr., C. Miles, D. Inglis, and J. Moore-Kucera. 2011. Biodegradable mulches: Short-term degradability and impacts on soil health. Proceedings Soil Science Society of America Annual Meeting, pages 123-128.
- Leonas, K.K., H. Liu, **J. Cowan**, D.G. Hayes, L.C. Wadsworth, R. Wallace, C. Miles, A. Wszelaki, and D. Inglis. 4 - 7 January 2011. Degradable mulch for agriculture: Year 1 of a field study. Proceedings Beltwide Cotton Conference: Nonwovens Symposium, Atlanta, GA.
- Cowan, J.**, C. Miles, D. Inglis, K. Leonas, J. Moore-Kucera, A. Wszelaki, R. Wallace, D. Hayes, and L. Wadsworth. 2010. Evaluating potential biodegradable mulches for high tunnel and field vegetable production. Proceedings Agricultural Plastics Congress, Palm Desert, CA.

Abstracts

- Shoemaker, C.A, E. Pliakoni, **J. Cowan**, C. Rivard, M. Bhullar, and L. Nwadike. 2022. Interdisciplinary graduate certificate in urban food systems at Kansas State University. Urban Food Systems Symposium. Kansas City, MO.
- Sipasi, O.A. and **J.S. Cowan**. 2022. Making mould work in the vegetable garden. American Society for Horticulture Science Annual Conference. Chicago, IL. *HortScience* 57(9):SXXX. (accepted)
- Hazan, S., C. Kang, K. Fan, **J. Cowan**. 2021. Evaluating hügelkultur for season extension in lettuce production. American Society for Horticulture Science Annual Conference. Denver, CO. *HortScience* 56(9):S191.
- Hazan, S., **J. Cowan**, C. Kang, and H. Calderón-Cartegana. 2021. Evaluating hügelkultur for pumpkin (*Cucurbita pepo* L.) production in Kansas. American Society for Horticulture Science Annual Conference. Denver, CO. *HortScience* 56(9):S89.

- Cowan, J.S.** 2020. Spokane's LINC Foods: Bringing local foods to the Inland Northwest. American Society for Horticulture Science Annual Conference. *HortScience* 55(9):S355.
- Cowan, J.S.** and J.R. Goldberger. 2017. Planning for tactile space to improve university Extension outreach activities. *HortScience* 52(9):S157.
- Buajaila, F., **J.S. Cowan**, L. Carpenter Boggs, D.A. Inglis, and C.A. Miles. 2017. Effect of grafting and fertilizer source on tomato yield and fruit quality in high tunnel production. *HortScience* 52(9):S390.
- Buajaila, F., **J.S. Cowan**, L. Carpenter Boggs, D.A. Inglis, and C.A. Miles. 2017. Effect of nitrogen fertilizer on growth and nitrate content of grafted and non-grafted tomato in high tunnel production. *HortScience* 52(9):S131.
- Buajaila, F., **J.S. Cowan**, L. Carpenter-Boggs, D.A. Inglis, E. Scheenstra, and C.A. Miles. 2016. Effect of fertilizer source and grafting on tomato growth, leaf nitrogen and fruit yield in high tunnels. *HortScience* 51(9):S164.
- Cowan, J.S.**, S. Ghimire, and C.A. Miles. 2016. Biodegradable mulch films: their constituents and suitability for organic agriculture. *HortScience* 51(9):375
- Ghimire, S., E. Scheenstra, **J.S. Cowan**, H. Sintim, M. Flury, D.A. Inglis and C.A. Miles. 2016. Deterioration of biodegradable plastic mulch in pumpkin production in northwest Washington. *HortScience* 51(9): S215.
- Cowan, J.**, C. Miles, and D. Inglis. 2013. Deterioration of three biodegradable plastic mulches before and after soil incorporation in a broccoli production system. *HortScience* 48(9):S223.
- Cowan, J.**, C. Miles, K. Leonas, H. Liu, A. Saxton, and D. Inglis. 2013. Evaluating visual assessments of mulch deterioration to predict changes in mulch mechanical properties. *HortScience* 48(9):S224.
- Powell, M., B. Gundersen, C.A. Miles, **J.S. Cowan**, and D.A. Inglis. 2013. The effect of an open-ended high tunnel production system on late blight of tomato in western Washington. *Phytopathology* 103S:15.
- Powell, M., B. Gundersen, **J. Cowan**, C. Miles, and D.A. Inglis. 2012. Lettuce diseases observed in high tunnel and open field organic production in western Washington. *Phytopathology* 102(S6):11.
- Cowan, J.**, C. Miles, and D. Inglis. 2012. Effects of biodegradable mulch on yield of tomato grown in high tunnels and open field conditions in northwestern Washington. *HortScience* 47(9):S171.
- Corbin, A., C. Miles, **J. Cowan**, D. Hayes, and J. Moore-Kucera. 2012. Current status of biodegradable plastic mulches in certified organic production. *HortScience* 47(9):S152-153.
- Cowan, J.**, C. Miles, and D. Inglis. 2012. The effects of high tunnels and bio-degradable mulch on fruit quality of tomatoes grown in northwestern Washington. *HortScience* 47(9):S109-110.
- Wszelaki, A., C. Miles, J. Martin, **J. Cowan**, T. Walters, R. Wallace, and D. Inglis. 2012. Evaluating biodegradable mulches in diverse climates in the U.S. *HortScience* 47(9):S71.

Leonas, K.K., H. Liu, **J. Cowan**, D.G. Hayes, L.C. Wadsworth, R. Wallace, C. Miles, A. Wszelaki, J. Martin, and D. Inglis. 2011. Degradable mulch for agriculture: Year 1 comprehensive analysis of a field study. The Fiber Society Spring 2011 Conference, The Hong Kong Polytechnic University, Hong Kong.

Leonas, K.K., H. Liu, **J. Cowan**, D.G. Hayes, L.C. Wadsworth, R. Wallace, C. Miles, A. Wszelaki, J. Martin, and D. Inglis. 2011. Degradable mulch for agriculture: Year 1 evaluation of a field study. The Fiber Society Spring 2011 Conference, The Hong Kong Polytechnic University, Hong Kong.

Moore-Kucera, J., C. Li, M. Davinic, L. Fultz, J. Lee, C. Miles, D. Inglis, M. Brodhagen, R.W. Wallace, **J. Cowan**, and J. Martin. 2011. Biodegradable mulches: Short-term degradability and impacts on soil health. *HortScience* 46(10): S68.

Workshops, Symposia, and Colloquia Organized

Pliakoni, E., **J.S. Cowan**, C. Shoemaker, C. Rivard, L. Nwadike, and M. Bhullar. 2022. Building Coalitions for a Changing World: Urban Food Systems Symposium (co-convenor). Kansas City, MO.

Cloft, S., J. Cole, **J. Cowan**, S. Dixon, K. Liang, D. Mulvaney, M. Santiago, C. Simpson, and B. Weikert. 2022. Experiential Learning: Opportunities Through Campus Farms, Facilities and Beyond. 2022 NACTA Annual Conference. Wooster, OH.

Nandwani, D., D. Treadwell, and **J. Cowan**. 2021. Organic producers & consumers - 2020 successes and challenges & wow to be successful in 2021? American Society for Horticulture Science Annual Conference, Denver, CO. *HortScience* 56(9):S191.

Cowan, J.S. 2020. Capitalizing on success in our local food systems. American Society for Horticulture Science Annual Conference, Online.

Pliakoni, E., C. Rivard, C. Shoemaker, **J.S. Cowan**, L. Nwadike. 2020. UFSS Pre-symposium Workshop. Kansas City, MO.

D. Extension Publications, Non-peer Reviewed

J. Cowan and C. Miles. September 2018. Impact of biodegradable plastic mulch on specialty crop production. Report No. EXT-2018-02. *Performance and Adoptability of Biodegradable Mulch*. <http://biodegradablemulch.org>. (2-6)

PRESENTATIONS

A. International

[Invited] **Cowan, J.S.** 2022. How to Interact with American Professors. Education USA Pre-departure Orientation. Education USA, U.S. Consulate General, Lagos, Nigeria.

[Invited] **Cowan, J.S.** 2022. Permaculture for a Sustainable Future. American Center, U.S. Consulate General, Lagos, Nigeria.

A. National

[Invited] Cowan, J.S. 2020. Biodegradable mulch through the grower's lens. American Society for Horticulture Science Annual Conference. Biodegradable Mulch Workshop. Online.

Hazan, S., and **J. Cowan**. 2020. Establishing hügelkultur for season extension research, specialty crop production, and permaculture education. Urban Food Systems Symposium, Online. Poster presentation

Cowan, J.S., C. Miles, A. Wszelaki, R. Wallace, J. Martin, and A. Corbin. 2012. Biodegradable mulches for sustainable and organic crop production. 6th National Small Farm Conference, Memphis, TN. Poster presentation

Cowan, J.S. 2012. Evaluating biodegradable mulches for high tunnel tomato production: A multi-faceted approach. Graduate Student Symposium, SCRI Team Annual Conference, Knoxville, TN

Cowan, J.S. 2011. Handle with care: biodegradable mulch handling and cleaning. Graduate Student Symposium, SCRI Team Annual Conference, Lubbock, TX

Cowan, J.S. 2011. Making tomatoes make sense: The biodegradable mulch alternative. Graduate Student Symposium, Food Justice Conference, University of Oregon, Eugene, OR

B. Regional

Cowan, J.S. and R. Hale. 2020. K-State's Willow Lake Student Farm: Using permaculture to model sustainable systems for specialty crop research and education. Southern Sustainable Agriculture Working Group Annual Conference, Little Rock, AR. Poster presentation

Hazan, S. and **Cowan, J.S.** 2020. Is there room for hügelkultur in sustainable specialty crop production? Southern Sustainable Agriculture Working Group Annual Conference, Little Rock, AR. Poster presentation

Cowan, J.S. 2017. An Introduction to permaculture. Farm and Food Expo: 7th Annual Inland Northwest Small Farms Conference, Spokane, WA

Cowan, J.S. 2017. High tunnels to extend the growing season. 7th Annual Inland Northwest Permaculture Convergence, Hot Springs, MT

Cowan, J.S. 2017. Introduction to Permaculture. Cabin Fever, Spokane, WA

Cowan, J.S. 2016. Season extension. Farm and Food Expo: 6th Annual Inland Northwest Small Farms Conference, Spokane, WA

Cowan, J.S. 2016. Planning with degree days. Farm and Food Expo: 6th Annual Inland Northwest Small Farms Conference, Spokane, WA

Cowan, J.S. 2016. Permaculture at WSU, listening session. 6th Annual Inland Northwest Permaculture Convergence, Tum Tum, WA

Cowan, J.S. 2016. Biodegradable mulch field day at Omache Farms, Pullman, WA

Cowan, J.S. 2016. Season extension structures. OSU Winter Farming Series, Aurora, OR

- Heitstuman, M., S. Meagher, S. Kerr, and **J.S. Cowan**. 2015. Sustainable pork production for beginners. Tilth Producers of Washington 41st Annual Conference, Spokane, WA
- Cowan, J.S.** and S. Ghimire. 2015. Better farming through plastics: season extension, mulch and more! Farm-a-Palouse-a: 5th Annual Inland Northwest Small Farms Conference, Spokane, WA
- Kuber, P. and **J.S. Cowan**. 2015. Poultry processing for increased marketing options. Farm-a-Palouse-a: 5th Annual Inland Northwest Small Farms Conference, Spokane, WA
- Cowan, J.S.** 2015. Permaculture at WSU listening session. 5th Annual Inland Northwest Permaculture Convergence, Tum Tum, WA
- Cowan, J.S.** 2015. Permaculture in Scotland. 5th Annual Inland Northwest Permaculture Convergence, Tum Tum, WA
- Cowan, J.S.** 2015. Permaculture at home. Spokane County Conservation District Tree School, Spokane, WA
- Cowan, J.S.** 2015. Quite a stretch: Extending the growing season. Cabin Fever, Spokane, WA
- Cowan, J.S.**, G. Cox, and H. McCormack. 2014. The benefits of season extension. T40: Tilth Producers of Washington 40th Annual Conference, Vancouver, WA
- Cowan, J.S.** 2014. Using high tunnels to increase farm profits. Farm-a-Palouse-a: 4th Annual Inland Northwest Small Farms Conference, Spokane, WA
- Cowan, J.S.** 2014. Raising rabbits for fun and profit. Farm-a-Palouse-a: 4th Annual Inland Northwest Small Farms Conference, Spokane, WA
- Cowan, J.S.**, K. Craig, and C. Miles. 2013. High tunnel production. Tilth Producers of Washington Annual Conference, Yakima, WA
- Cowan, J.S.**, C. Miles, A. Wszelaki, R. Wallace, J. Martin and A. Corbin. 2012. Biodegradable mulches for sustainable and organic crop production. Washington Tilth Producers Conference, Port Townsend, WA. [Poster presentation](#)
- Cowan, J.S.**, C. Miles, A. Wszelaki, R. Wallace, J. Martin and A. Corbin. 2012. Biodegradable mulches for sustainable and organic crop production. Pacific Northwest Vegetable Association Annual Conference, Kennewick, WA. [Poster presentation](#)
- Cowan, J.S.**, C. Miles, A. Wszelaki, R. Wallace, J. Martin and A. Corbin. 2012. Biodegradable mulches for sustainable and organic crop production. Tilth Producers of Washington Annual Conference, Port Townsend, WA. [Poster presentation](#)
- Cowan, J.S.**, C. Miles, and A. Corbin. 2011. Paper or plastic: Biodegradable mulches in organic crop production. Tilth Producers of Washington Annual Conference, Yakima, WA. [Poster presentation](#)
- Miles, C., **J. Cowan**, M. Powell, D. Inglis, and A. Corbin. 2011. Biodegradable mulches for specialty crops produced under protective covers. Washington Tilth Producers Farm Walk, Washington State University, Northwestern Washington Research and Extension Center, Mount Vernon, WA

Miles, C., **J. Cowan**, A. Corbin, D. Hayes, J. Dorgan, J. Roozen, K. Leonas, and D. Inglis. 2010. Suitability of biodegradable mulches for organic production. Pacific Northwest Vegetable Association Annual Conference, Kennewick, WA

C. State

[Invited] Cowan, J.S., A. Lattner, P. Oppelt, B. Wiswell, C. Jamerson, and L. Atwell. 2019. Future of Farming and Food Town Hall (panel discussion). Kansas Rural Center Annual Town Hall Series, Emporia, KS.

[Invited] Cowan, J.S., A. Streit-Krug, R. Myslivy, and G. Fuller. 2019. Future of Farming and Food Town Hall (panel discussion). Kansas Rural Center Annual Town Hall Series, Emporia, KS.

[Invited] Cowan, J.S., S. Shafer, R. Myslivy, and L. Pechin-Long. 2019. Future of Farming and Food Town Hall (panel discussion). Kansas Rural Center Annual Town Hall Series, Wichita, KS.

[Invited] Cowan, J.S., B. Mendoza, D. Barnett, and T. Giessel. 2019. Future of Farming and Food Town Hall (panel discussion). Kansas Rural Center Annual Town Hall Series, Garden City, KS.

[Invited] Cowan, J.S., D. Barnett, J. Insley, and N. Insley. 2019. Future of Farming and Food Town Hall (panel discussion). Kansas Rural Center Annual Town Hall Series, St. Francis, KS.

Cowan, J.S., K. Dentzman, C. Benedict, and J. Goldberger. 2018. Biodegradable mulch installation field day at Boxx Berry Farm, Ferndale, WA

Cowan, J.S., K. Dentzman, C. Benedict, and J. Goldberger. 2017. Biodegradable mulch till-down field day at Cloudview Ecofarms, Ephrata, WA

Cowan, J.S., K. Dentzman, C. Benedict, and J. Goldberger. 2017. Biodegradable mulch installation field day at Cloudview Ecofarms, Ephrata, WA

Saari, B., S. Collier, M. Ostrom, and **J. Cowan**. 2016. Organic tree fruit production at Cliffside Orchards. Tilth Producers of Washington Farm Walk, Rice, WA

Cowan, J.S. 2015. Bedding down for the winter. Airway Heights Correctional Center, Airway Heights, WA

Cowan, J.S. 2015. Getting ready for harvest Q&A. Airway Heights Correctional Center, Airway Heights, WA

Cowan, J.S. 2015. Restarting the garden. Airway Heights Correctional Center, Airway Heights, WA

Cowan, J.S. and T. Kohlhauff. 2014. Basic pest management. Airway Heights Correctional Center, Airway Heights, WA

Cowan, J.S., C. Miles, K. Craig, J. Roozen and J. King. 2014. Mechanical harvest for cider apples. NABC Hard Cider Workshop, Moses Lake, WA

Cowan, J.S. and C. Miles. 2013. Biodegradable mulch for crop production. Home and Garden Show, Goldendale, WA

- Cowan, J.S.** and C. Miles. 2013. High tunnel production. Home and Garden Show, Goldendale, WA
- Cowan, J.S.** and C. Miles. 2013. Vegetable grafting. Home and Garden Show, Goldendale, WA
- Cowan, J.S.** Raising meat rabbits. 2013 Country Living Expo and Cattlemen’s Winterschool, Stanwood, WA
- Cowan, J.S.** Processing meat rabbits. 2013 Country Living Expo and Cattlemen’s Winterschool, Stanwood, WA
- Miles, C. and **J. Cowan**. 2011. Season extension and weed management: High tunnels and biodegradable mulches. WSU CSANR Annual Meeting, Ellensburg, WA
- Cowan, J.S.** and T. Cerny. 2003. Water-efficient landscaping. Master Gardener Advanced Education Course, Beaver, UT

D. Local

- Cowan, J.S.** 2022. Intercropping culinary mushrooms with tomato and asparagus. Willow Lake Student Farm, Manhattan, KS.
- Klish, M.** and J.S. Cowan. 2022. Tools for small farms. Willow Lake Student Farm – Field Day 2022. Manhattan, KS.
- Hazan, S.** and J.S. Cowan. 2022. Demystifying hügelkultur. Willow Lake Student Farm – Field Day 2022. Manhattan, KS.
- Cowan, J.S.** 2022. Mushrooms 101. Willow Lake Student Farm – Field Day 2022. Manhattan, KS.
- Hammel, K., L.J. Ekdahl,** and J.S. Cowan. 2021. Vermiculture and vermicompost. Willow Lake Student Farm, Manhattan, KS.
- [Invited] Cowan, J.S.** 2021. Sustainable Agriculture and the Willow Lake Student Farm. KSU African Student Union, Manhattan, KS.
- [Invited Keynote] Cowan, J.S.** 2020. Local and thriving: Building a resilient local food business. Regional Farmers’ Market Workshop, Wichita, KS.
- [Invited] Cowan, J.S.** 2018. The role of extension in the local food system. 2018 Johnson County Extension Annual Meeting, Olathe, KS
- [Invited] Cowan, J.S.** 2018. The role of extension in the local food system. 2018 Johnson County Extension Annual Meeting, Olathe, KS
- Cowan, J.S.** 2018. Sex and GMOs. 2018 Spokane County Master Gardener Training Class, Spokane, WA
- Cowan, J.S.** 2018. Growing vegetables. 2018 Spokane County Master Gardener Training Class, Spokane, WA
- Cowan, J.S.** 2018. Plant nutrition and fertilizers. 2018 Spokane County Master Gardener Training Class, Spokane, WA
- Cowan, J.S.** 2017. Permaculture and the role of WSU in the near future. Aberdeen, WA

- Cowan, J.S.** 2017. Growing vegetables. 2017 Spokane County Master Gardener Training Class, Spokane, WA
- Cowan, J.S.** 2017. Plant nutrition and fertilizers. 2017 Spokane County Master Gardener Training Class, Spokane, WA
- Cowan, J.S.** 2016. Vegetable grafting workshop, Spokane, WA
- Cowan, J.S.** 2016. Plant nutrition and fertilizers. 2016 Spokane County Master Gardener Training Class, Spokane, WA
- Cowan, J.S.** 2016. Growing vegetables. 2016 Spokane County Master Gardener Training Class, Spokane, WA
- Cowan, J.S.** 2016. WSU Extension Master Gardeners: MG foundations and the MOAs that bind them. 2016 Spokane County Master Gardener Winter Meeting, Spokane, WA
- Cowan, J.S.** 2016. Chew on this: Gardening under cover. Couer d'Alene, ID
- Cowan, J.S.** 2015. Eating well from your garden: When and what to harvest. Clarkston, WA
- Cowan, J.S.** 2015. Master Gardener Farm Walk: Growing degree days: What are they, and why should I care? Deer Park, WA
- Cowan, J.S.** 2015. High tunnel construction hands-on workshop. Cheney, WA
- Cowan, J.S.** 2015. Drip irrigation for the home garden. North Country Garden Club, Deer Park, WA
- Cowan, J.S.** 2015. Plant nutrition and fertilizers. 2015 Spokane County Master Gardener Training Class, Spokane, WA
- Cowan, J.S.** 2015. Growing vegetables. 2015 Spokane County Master Gardener Training Class, Spokane, WA
- Cowan, J.S.** 2014. Raising meat rabbits profitably. Spokane, WA
- Cowan, J.S.** 2014. Grow more food: High tunnel workshop. Deer Park, WA
- Cowan, J.S.** 2014. Drip irrigation for the home garden. Sowing Seeds for Supper, Colville, WA
- Cowan, J.S.** 2013. Raising meat rabbits profitably. Mount Vernon, WA
- Cowan, J.S.** and C. Miles. 2012. Growing great tomatoes. Master Gardener Advanced Education Course. Oak Harbor, WA
- Cowan, J.S.** 2010 - 2012. Impacts of high tunnels and bio-degradable mulches on tomato yield and fruit quality. WSU NWREC Annual Field Day, Washington State University, Northwestern Washington Research and Extension Center, Mount Vernon, WA
- Cowan, J.S.** 2011. Paper or plastic: Biodegradable mulches in organic crop production. Agriculture and Northwestern Ecosystems Graduate Student Symposium, Washington State University, Northwestern Washington Research and Extension Center, Mount Vernon, WA

OTHER PUBLICATIONS AND CREATIVE ACTIVITIES

A. White Papers

Benedict, C., **Cowan, J.S.**, Devetter, L.W., Ganjyal, G., Hammond, E.A., Kuber, P.S., Ostrom, M., Reynolds, K., Rome, C., Sablani, S.S., Smith, D.K., & McDaniel, R.H. (2016). WSU Food Systems Initiative: White Paper. *Internal Document*

B. Computer Programs Developed

Cowan, J.S. 2010. Global Pedigree Project: Web-based breeding management program. (www.globalpedigree.com)

INSTRUCTION

A. Credit Courses Taught

| | |
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| 2019 – 2023 | Hort 520, Fruit Production. Kansas State University, Manhattan, KS. Spring odd years. 3 credits. (81 students total) |
| 2018 – 2022 | Hort 560, Vegetable Production. Kansas State University, Manhattan, KS. Spring even years. 3 credits. (81 students total) |
| 2019 – 2022 | Hort 591, Small Farm Practicum. Kansas State University, Manhattan, KS. Summer, Fall. 3 credits (13 students total; summer 2019 as Hort 640) |
| 2020 – 2022 | Hort 640, Permaculture Design Certificate. Kansas State University, Manhattan, KS. Summer. 3 credits (28 students total). |
| 2020 – 2022 | Hort 796, Urban Food Systems Professional Development. Kansas State University, Manhattan, KS. 1 credit (14 students total) |
| 2019 – 2021 | Hort 790, Sustainable Agriculture. Kansas State University, Manhattan, KS. Fall odd years. 2 credits. (18 students total) |
| 2020 | Hort 650, Agrarian Traditions. Kansas State University, Manhattan, KS. Fall even years. 3 credits. (4 students total fall 2020 as Hort 640) |
| 2017 | Hort 499. Special Topics. Washington State University, Pullman, WA. Fall. 1 credits. (1 student) |
| 2015 | Hort 499. Special Topics. Washington State University, Pullman, WA. Spring. 1-2 credits. (4 students total) |
| 2014 – 2017 | Hort 320, Olericulture. Washington State University, Pullman, WA. Fall odd years [and 2014]. 3 credits. (117 students total) |
| 2013 | Crop Sci 512, Ethics of Science. Co-instructor with Dr. Stephen Jones. Washington State University, Mount Vernon, WA. Spring. 1 credit. |
| 2002 | Botny 205, Field Botany. Brigham Young University, Provo, UT. Summer. 3 credits. |

B. Curriculum and Courses Developed

- 2021 Hort 640: Topics – Intro to Cannabis. Kansas State University, Manhattan, KS. 3 credits.
- 2020 Hort 650: Agrarian Traditions. Kansas State University, Manhattan, KS. Fall even years. 3 credits.
- 2020 Hort 591: Small Farm Practicum. Kansas State University, Manhattan, KS. Summer and Fall. 3 credits.

C. Additional Teaching

- 2020 – 2022 Guest Lecture, Hort 582: Foundations of Horticultural Pest Management. (3 sessions)
- 2022 Guest lecture, IARC 320: IARC Design Studio II. Setting the stage for a new barn office/classroom (5 sessions – 1 intro, 4 review sessions)
- 2021 Guest lecture, Hist 320: History of Technology. Weeds, Food, and Medicine: A Hippocratic Conundrum
- 2020 – 2021 Guest lecture, Hort 791: Urban Agriculture. Growing fruit and vegetables in the urban environment (2 sessions)
- 2019 Guest Lectures, Hort 796: Professional Development in Urban Food Systems. Tactile Space (1 lecture), Extension (1 lecture)
- 2017 Organized and presented 14-hour course, Introduction to Permaculture. Coeur d’Alene, ID. (1 session total)
- 2017 Organized and presented 12-week course, Vegetable crop production at AHCC. Spokane, WA. (1 session total)
- 2016 Organized and presented 12-week course, Horticulture 101, Basic Horticulture at AHCC. Spokane, WA. (1 session total)
- 2016 Organized and presented 4-week course, Introduction to Permaculture. Spokane, WA. (1 session total)
- 2016 Co-presented and co-organized 4-week course, Advanced Cultivating Success: Farm Financial Management. Spokane, WA. (1 session total)
- 2015 – 2018 Developed and presented 10-week course, Specialty crop production. Spokane, WA. (3 session total)
- 2015 Co-presented and co-organized 10-week course, Cultivating Success: Agricultural entrepreneurship and business planning. Spokane, WA. (1 session total)
- 2014 – 2018 Co-presented and co-organized 12-week course, Cultivating Success: Sustainable small acreage farming and ranching. Spokane, WA. (4 sessions total)
- 2014 Guest Lecture, AFS 501: Current Research in Organic and Sustainable Agriculture, Biodegradable plastics in agriculture, Pullman, WA
- 2014 Guest Lecture, Cultivating Success: Sustainable small acreage farming and ranching. Washington State University, Okanogan, WA.

2012 Guest Lecture, Cultivating Success: Sustainable small acreage farming and ranching. Washington State University, Mount Vernon, WA.

D. Graduate Student Advising

2022 – present Claire Barnhart, M.S. Student in Horticulture, Committee Member, Research Topic: TBD

2021 – present Daryline Dayzie, M.S. Student in Horticulture, Committee Member, Research Topic: Irrigation efficiency under natural mulches

2020 – present **Olalekan Sipasi**, Ph.D. Student in Horticulture, Major Advisor, Research Topic: TBD

2019 – present Conner Nickerson, M.S. Student in Horticulture, Committee Member, Research Topic: Mulch and irrigation effects on tomato and pepper

2018 – present **Sara Hazan**, M.S. Student in Horticulture, Major Advisor, Research Topic: Hügelkultur

2021 – 2022* Madison Wulfkuhle, M.L.A. (Landscape Architecture), Committee Member, Project Topic: TBD

2021 – 2022* Kelly Flynn, M.A. Student in Agriculture Education, Committee Member, Project Topic: TBD

2019 – 2021* Tricia Jenkins, Ph.D. Student in Horticulture (former M.S. student in U.F.S.), Committee Member, Research Topic: Tomato grafting

2020 – 2021* Rainie Madsen, M.L.A. (Landscape Architecture), Committee Member, Project Topic: “Food for [future] thought: [Re]defining sustainability through agritourism.”

2018 – 2020* Jacob Schwab, M.S. Student in Horticulture, Committee Member, Research Topic: High-tunnel Blueberry Production

2020* Carly Estes, M.S. in Urban Food Systems, Committee Member, Project Topic: Hydroponic vegetable production

2019* Ashlee Skinner, M.S. in Urban Food Systems, Committee Member, Research Topic: Cover cropping in high tunnels

2019 **Nicole Martini**, Ph.D. Student in Horticulture, Major Advisor, Research Topic: Intercropping systems

2018 **Erin Bailey**, Ph.D. Student in Horticulture, Major Advisor, Research Topic: Tactile space in permaculture education

2018 **Eddie Tanner**, M.S. Student in Agriculture³, Major Advisor/Committee Chair

³ The MS in Agriculture at Washington State University is a terminal degree program often completed via WSU’s Global Campus distance programs.

* Reflects the year the student completed the listed degree program.

- 2014 – 2018* Fairuz Buajaila, Ph.D. Horticulture, Committee Member, Research topic: Comparing poultry manure to commercial mineral fertilizers for nutrition and fruit quality of grafted and non-grafted tomato (*Solanum lycopersicum* L) in high tunnels.
- 2015 – 2018* Shuresh Ghimire, Ph.D. in Horticulture, Committee Member, Research Topic: Biodegradable plastic mulch for pumpkin and sweet corn production: Crop yield, quality and mulch biodegradation in northwest Washington.
- 2017 – 2018 **Alexander Liang**, M.S. in Agriculture, Co-Major Advisor/Committee Chair
- 2017 – 2018 Adel Almesmari, Ph.D. Student in Horticulture, Committee Member, Research Topic: Application of compost tea for vegetable production.
- 2017 – 2018 Paul Dengel, M.S. in Agriculture, Committee Member

E. Undergraduate Student Advising

- 2018 – present Undergraduate academic advising – advised/advising 40 horticulture majors (23 current); 8 graduated
- 2014 – 2015 Whitney Hubble, Undergraduate student in Organic Agriculture, WSU CAHNRS Undergraduate Internship Program, Research topic: Intercropping tomato.
- 2012 Ashley Quimby, Undergraduate student in Agricultural Biotechnology, WSU CAHNRS Undergraduate Internship Program, Research topic: Lettuce storage quality.

PROFESSIONAL SERVICE

A. University

- 2018 – present Urban Food Systems Institute Planning Committee
- 2021 – 2022 CEA Teaching Assistant Professor Search Committee Member, Kansas State University
- 2021 – 2022 Secretary, Gamma Sigma Delta, Eta Chapter, Kansas State University
- 2019 College of Agriculture Academic Standards Committee (1 session)
- 2018 – 2019 John C. Pair Horticulture Research Center Task Force member
- 2016 – 2018 WSU Food Systems Program Steering Committee member
- 2015 – 2018 WSU CSANR Leadership Team member
- 2015 – 2018 WSU Extension Food Systems Working Group member
- 2015 – 2018 WSU Extension Small Farms and Community Food Systems Implementation Steering Committee member
- 2015 – 2018 WSU Tree Fruit Team member

- 2014 – 2018 Chair, Technology and Equipment Committee, Washington State University Spokane County Extension
- 2014 – 2018 Marketing Committee, Washington State University Spokane County Extension
- 2013 – 2018 WSU Food Systems Program (formerly WSU Small Farms Team) member
- 2013 – 2018 WSU Garden Team member, Washington State University Extension, Spokane, WA
- 2017 WSU Extension ANR Unit Meeting Planning Committee member
- 2016 WSU CSANR BIOAg grant review panelist
- 2014 WSU Extension Joint Unit Meeting Round-robin Session moderator, 2013 – 2018 Pacific Northwest Vegetable Extension Group member
- 2012 Graduate Student Harvest Seminar Moderator, Washington State University, Northwestern Washington Research and Extension Center
- 2011 – 2012 Graduate Student Symposium Organizing Committee Member, Washington State University, Northwestern Washington Research and Extension Center
- 2011 – 2012 Graduate Student Representative to Faculty, Washington State University, Northwestern Washington Research and Extension Center
- 2011 – 2012 WSU NWREC Representative, Horticulture Graduate Student Organization, Washington State University
- 2001 – 2002 Vice President. Horticulture Club. Brigham Young University

B. International

- 2022 – present Board Member, Nigerian Society of Permaculture

C. National

- 2022 – present Secretary (2022), Vegetable Crops Management Professional Interest Group, American Society for Horticulture Sciences
- 2018 – present Urban Food Systems Symposium Organizing Committee
- 2019 – 2022 Chair (2022), Organic Professional Interest Group, American Society for Horticultural Sciences
- 2017 – 2020 Chair (2019-2020), Local Food Systems Professional Interest Group, American Society for Horticultural Sciences
- 2014 – 2017 Chair (2017), Scholarship Awards Committee Member, American Society for Horticultural Science
- 2013 Conference Session Moderator, American Society for Horticultural Science Annual Conference, Palm Desert, CA

D. Regional

- 2016 – 2018 President (2018), Vice President (2017), Board of Directors, Local Inland Northwest Cooperative, Spokane, WA
- 2017 Co-chair, Board of Directors, Inland Northwest Food Network, Coeur d'Alene, ID
- 2014 – 2018 Farm and Food Expo (formerly Farm-a-Palouse-a), Inland Northwest Small Farms Conference organizing committee member, Spokane, WA
- 2013 Turf, Tree, and Landscape Conference planning committee member, Couer d'Alene, ID

E. State

- 2021 – present Board of Directors, Kansas Permaculture Institute
- 2018 – present KS SARE/KCSAAC Advisory Committee member
- 2022 Agriscience Fair Judge, Kansas FFA Agriscience Fair, Virtual
- 2013 – 2018 Airway Heights Correctional Center Garden Team consultant, Airway Heights, WA
- 2014 – 2016 Journal Editorial Board, *Tilth Producers Quarterly*, Tilth Producers of Washington
- 2014 – 2015 Board of Directors, Tilth Producers of Washington

F. Community

- 2019 Food and Farm Council of Riley County and City of Manhattan Partner (advisory committee)
- 2013 – 2018 Spokane Community College Agriculture Advisory Committee member, Spokane Community College, Spokane, WA
- 2013 – 2018 Chair (2017 – 2018), Spokane Community College Horticulture Advisory Committee member, Spokane Community College, Spokane, WA
- 2013 – 2018 Technical Advisory Committee member, Urban Agriculture Policy Working Group, City of Spokane, WA
- 2015 Spokane County Water Conservation Team, Spokane WA

G. Review Activities

- 2022 Manuscript reviewer, NACTA Journal (1 manuscript)
- 2016 – 2022 Manuscript reviewer, Renewable Agriculture and Food Systems (5 manuscripts)
- 2014 – 2021 Manuscript reviewer, HortTechnology (11 manuscripts)
- 2015 – 2020 Manuscript reviewer, HortScience (5 manuscripts)
- 2013 – 2020 Manuscript reviewer, WSU Fast Track (15 manuscripts)

- 2020 Manuscript reviewer, Urban Agriculture and Regional Food Systems (1 manuscript)
- 2020 Manuscript reviewer, Sustainability (2 manuscripts)
- 2020 Manuscript reviewer, Agriculture and Human Values (1 manuscript)
- 2015 – 2018 WSU CSANR ad hoc grant reviewer (8 grants)
- 2017 Manuscript reviewer, University of Idaho Fast Track (1 manuscript)
- 2016 Manuscript reviewer, Canadian Journal of Plant Science. Revue Canadienne De Journal Phytotechnie (1 manuscript)
- 2015 Manuscript reviewer, Chemical Papers (1 manuscript)
- 2014 Manuscript reviewer, Journal of the Science of Food and Agriculture (1 manuscript)
- 2014 Makus, D.J., L.M. Zibilske, and V.M. Russo. Grass cover crop and tillage method on watermelon production in the southern plains. Pre-submission external review
- 2013 Manuscript reviewer, Journal of Agricultural Science and Technology, Tehran, Iran (1 manuscript)
- 2013 Li, C.H., J. Moore-Kucera, J. Lee, A. Corbin, M. Brodhagen, C. Miles, and Inglis, D. 2014. Effects of biodegradable mulch on soil quality. *Applied Soil Ecology* 79:59-69. Pre-submission internal review
- 2011 Johnson, S.J. and C.A. Miles. Effect of healing chamber design on the survival of grafted eggplant, tomato, and watermelon. *HortScience* 21(6):752-758. Pre-submission internal review

PROFESSIONAL & SCHOLARLY ORGANIZATIONS

- 2018 – present Kansas Permaculture Institute
- 2014 – present Agriculture, Food, and Human Values Society
- 2011 – present Rural Sociology Society
Interest groups: Sociology of Agriculture, Food Research Interest Group
- 2010 – present American Society of Horticulture Science
Working groups: Local Food Systems; Plasticulture; Organic; Vegetable Crops; Herbs, Spices, and Medicinal Plants
- 2010 – present International Society of Horticulture Science
- 2021 – 2022 North American Colleges and Teachers of Agriculture
- 2021 – 2022 International Society for Mushroom Science
- 2020 – 2022 Canadian Society for Horticulture Science
- 2016 – 2017 Washington Native Plant Society
- 2014 – 2018 National Association of County Agricultural Agents

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| 2014 – 2018 | Washington Extension Agents and Specialists Association |
| 2014 – 2016 | American Council for Medicinally Active Plants |
| 2011 – 2016 | Tilth Alliance (formerly Tilth Producers of Washington) |
| 2002 – 2006 | International Society of Arboriculture |

PROFESSIONAL DEVELOPMENT

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|-------------|---|
| 2021 – 2022 | K-State COA Orientation and Advising Training, Manhattan, KS (Virtual) |
| 2021 – 2022 | North American Colleges and Teachers of Agriculture Annual Conference, Virtual |
| 2020 – 2022 | Urban Food Systems Symposium, Various Locations |
| 2012 – 2022 | American Society for Horticultural Science Annual Conference, Various Locations (did not attend 2015, 2016, and 2018) |
| 2012 – 2022 | Social and Behavioral Responsible Conduct of Research. Collaborative Institutional Training Initiative. Online at http://www.citiprogram.org (every 5 years) |
| 2012 – 2022 | Social/ Behavioral Research, Basic Course. Collaborative Institutional Training Initiative. Online at http://www.citiprogram.org (every 5 years) |
| 2021 | Industry Perspectives: Steps Toward Achieving Successful Industry Collaborations, K-State Global Food Systems Seed Grant Training Session, Manhattan, KS (Virtual) |
| 2021 | ISHS HortDialogues Webinar Series on Agroecology (3-webinar series), Virtual |
| 2020 | KSU Global Food Systems Program Small & Urban Farming Workshop |
| 2020 | Southern Sustainable Agriculture Working Group Annual Conference |
| 2018 – 2019 | KSU New Faculty Institute (6 sessions) |
| 2018 – 2019 | KSU CoA Fall Teaching and Advising Workshop |
| 2018 – 2019 | KSU K-Stars Program |
| 2019 | Front Porch Republic Annual Conference |
| 2018 | KSU New Faculty Orientation |
| 2018 | KSU CoA Promotion & Tenure Workshop |
| 2015 – 2017 | Annual Inland Northwest Permaculture Convergence |
| 2015 – 2017 | CSANR On-farm Summer Meeting |
| 2014 – 2017 | Farm and Food Expo (formerly Farm-a-Palouse-a): Inland Northwest Small Farms Conference, Spokane, WA |
| 2014 – 2017 | WSU Extension ANR Program Unit Meeting |
| 2014 – 2017 | WSU Small Farms Team retreat |

- 2011 – 2017 Tilth Producers of Washington Annual Conference
- 2017 American Society for Horticultural Science Annual Conference
- 2017 WSU Extension Joint Unit Meeting
- 2017 Permaculture Teacher Training certification course, Shawnigan Lake, BC, Canada
- 2016 WSU Spokane County Extension Horticulture Program Retreat, Wenatchee, WA
- 2016 Washington State Association of Counties Leadership Conference, Spokane, WA
- 2016 OSU NWREC Winter Vegetable Field Day event, Aurora, OR
- 2016 Medicinal Herb Conference, Port Townsend, WA
- 2016 Permaculture Research Design certification course, Odiaxere, Portugal
- 2016 Logic Model training, Spokane, WA
- 2014 – 2015 WSU Extension Joint Unit Meeting
- 2015 WSU Discrimination and Sexual Harassment Prevention Training, Pullman, WA
- 2015 Vegetable Grafting In-service Training, Grand Rapids, MI
- 2015 WSU AFS and IPS Program Faculty Retreat, Pullman, WA
- 2015 2015 Tidal Leadership Symposium, WSU Center for Transformational Leadership, Pullman, WA
- 2015 2015 NACAA Western Region Professional Improvement Conference (PIC), Anchorage, AK
- 2015 CROPTIME data management training, Oregon State University NWREC, Aurora, WA
- 2015 Permaculture design certificate course, Rhynie, Aberdeenshire, Scotland
- 2015 WEASA Spring Sustainability Tour, San Juan County, WA
- 2014 American Forest Foundation Non-timber Forest Products workshop series (3 sessions), webinars
- 2014 WSU New Faculty Orientation, Pullman, WA
- 2014 WSU Horticulture Department Faculty Retreat, Ellensburg, WA
- 2014 WSU Gardening Team Face-2-Face, Ellensburg, WA
- 2014 Cultivating Success Train-the-trainer workshop, webinar
- 2013 Faculty Responsible Conduct of Research Education. Washington State University, Pullman, WA
- 2011 Publication Ethics. Washington State University, Pullman, WA

- 2011 In-house Sensory Evaluation Workshop. Oregon State University, Portland, OR
- 2011 Good Agricultural Practices (GAPs) Workshop. Washington State University, Bellingham, WA
- 2010 Graduate Grant Writing Workshop. Washington State University, Pullman, WA
- 2010 Responsible Conduct of Research Education. Washington State University, Pullman, WA