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**Education:**

1982 Ph.D., Botany; University of Washington  
1978 M.S., Botany; University of Washington  
1976 B.A., Biology, Highest Honors; University of California, Santa Cruz

**Professional experience:**

2016- Emerita Professor and Cooperative Extension Specialist  
Dept. of Land, Air and Water Resources, University of California, Davis  
2004-2016 Professor and Cooperative Extension Specialist  
Dept. of Land, Air and Water Resources, University of California, Davis  
2006-2012 Orr Chair in Environmental Plant Science  
2001-2004 Professor and Cooperative Extension Specialist  
Dept. of Vegetable Crops, University of California, Davis  
1989-2000 Assistant/Associate Professor and Cooperative Extension Specialist  
Dept. of Vegetable Crops, University of California, Davis  
1987-1989 Postdoctoral Researcher  
Dept. of Vegetable Crops, University of California, Davis  
1983-1986 Adjunct Lecturer and Assistant Research Botanist  
Dept. of Plant and Soil Biology and Dept. of Forestry and Resource  
Management, University of California, Berkeley  
1982-1983 Postdoctoral Fellow  
Centre d'Études Phytosociologiques et Écologiques, CNRS  
Montpellier, France  
1976-1982 Teaching and Research Assistant  
Dept. of Botany, University of Washington, Seattle

**Membership in professional organizations:**

Ecological Society of America  
ASA-CSSA-SSSA (Agronomy, Crop Science, and Soil Science Societies of America)  
AAAS (American Association for the Advancement of Science)

**Selected professional activities:**

2004-13 DIVERSITAS agroBIODIVERSITY Network Science Committee (Organized  
>10 international workshops/symposia)  
2005-11 Climate Change Scenarios Analysis Team, California Energy Commission  
2010-11 *Issues in Agroecology*, Springer Book Series, Associate Editor  
2006-13 *Frontiers in Ecology* (Ecological Society of America), Associate Editor  
2008-15 International Centre for Research in Organic Food Systems, Board Member

- 2010-13 *Organic Agriculture*, Associate Editor
- 2011-13 California Cannella Environmental Farming Act Science Advisory Panel
- 2011-12 National Academies Keck Futures Initiative on Ecosystem Services
- 2011-12 Southwest Region Technical Report for the National Climate Assessment
- 2011-12 ecoFINDERS EU Collaborative Project Scientific Advisory Board
- 2012-15 Climate-Smart Agriculture Global Science Conference Committees
- 2013-16 Scientific Council of CIRAD (French Agricultural Research for Development)

**Awards and distinctions:**

- 2004-07 Chair, Soils and Biogeochemistry Graduate Group, UC Davis
- 2006-12 John B. Orr Endowed Chair in Environmental Plant Sciences, UC Davis
- 2004-13 Chair, DIVERSITAS agroBIODIVERSITY Network
- 2011 California Climate Action Network Leadership Award
- 2011 AAAS Fellow

**Courses taught at University of California, Davis:**

- Ecology 216, *Ecology and Agriculture*
- Environmental and Resource Sciences 30, *World Ecosystems and Geography*
- Plant Biology 147, *Survey of Plant Communities of California*

**Areas of research areas:**

Agricultural biodiversity; Plant and soil ecology; Soil microbial carbon and nitrogen cycling; Ecosystem-level nitrogen and water budgets; Mycorrhizae; Plant water relations and nutrient uptake; Organic and conventional vegetable production; Grassland restoration ecology; Climate change responses in agricultural landscapes

**Areas of extension and outreach:**

Coordination of interdisciplinary projects on climate change, biodiversity and nutrient cycling; On-farm research on tillage, organic matter, nitrogen, and water management practices to enhance soil and water quality; Organization and participation in workshops and symposia on ecology, biodiversity and sustainability issues

**Peer-reviewed publications:**

- Haddaway, N.R., K. Hedlund, L.E. Jackson, T. Kätterer, E. Lugato, I. Thomsen, H. Bracht Jørgensen, and P.-E. Isberg. 2017. How does tillage intensity affect soil organic carbon? A systematic review. *Environmental Evidence* 6:30  
<https://environmentalevidencejournal.biomedcentral.com/articles/10.1186/s13750-017-0108-9>
- Bowles, T.M., L.E. Jackson, and T.R. Cavagnaro. Mycorrhizal fungi enhance plant nutrient acquisition and modulate nitrogen loss with variable water regimes. In press, *Global Change Biology*.
- Bowles, T.M., L.E. Jackson, M. Loehrer, and T.R. Cavagnaro. 2016. Ecological intensification and arbuscular mycorrhizas: a meta-analysis of tillage and cover crop effects. In press, *Journal of Applied Ecology*. DOI: 10.1111/1365-2664.12815
- Byrnes, R., V. Eviner, E. Kebreab, W.R. Horwath, L.E. Jackson, B.M. Jenkins, S. Kaffka, A. Kerr, J. Lewis, F.M. Mitloehner, J.P. Mitchell, K.M. Scow, K.L. Steenwerth, and S.M. Wheeler. Review of research to inform California's climate scoping plan: Agriculture and working lands. *California Agriculture* 71:160-168.

<https://doi.org/10.3733/ca.2017a0031>

- Margenot, A.J., M.M. Pulleman, R. Sommer, B.K. Paul, S.J. Parikh, L.E. Jackson, and S.J. Fonte. Biochemical proxies indicate differences in soil C cycling induced by long-term tillage and residue management in a tropical agroecosystem. In press, *Plant and Soil*.
- Meylan L., C. Gary, C. Allinne, J. Ortiz, L. Jackson, and B. Rapidel. Evaluating the effect of shade trees on provision of ecosystem services in intensively managed coffee plantations. *Agriculture, Ecosystems and Environment* 245:32-42.
- Bowles, T.M., L.E. Jackson, M. Loehrer, and T.R. Cavagnaro. 2016. Ecological intensification and arbuscular mycorrhizas: a meta-analysis of tillage and cover crop effects. In press, *Journal of Applied Ecology*. DOI: 10.1111/1365-2664.12815
- Margenot, A., B.K. Paul, R. Sommer, M.M. Pulleman, L.E. Jackson, and S. Fonte. 2017. Can conservation agriculture improve P availability in weathered soils? Effects of tillage and residue management on soil P status after 9 years in a Kenyan Oxisol. *Soil and Tillage Research*. 166:157-166.
- Barrios-Masias, F.H. and L.E. Jackson. 2016. Increasing the effective use of water in processing tomatoes through alternate furrow irrigation without a yield decrease. *Agricultural Water Management* 177:107-117.
- Haddaway, N., K. Hedlund, L.E. Jackson, T. Kätterer, E. Lugato, I.K. Thomsen, H.B. Jørgensen, and P.E. Isberg. 2016. Which agricultural interventions are most influential on soil organic carbon (using time series data)? *Environmental Evidence* 5:2. DOI 10.1186/s13750-016-0053-z  
<http://environmentalevidencejournal.biomedcentral.com/articles/10.1186/s13750-016-0053-z>
- Bowles, T.M., F.H. Barrios-Masias, E.A. Carlisle, T.R. Cavagnaro, and L.E. Jackson. 2016. Effects of arbuscular mycorrhizae on tomato yield, nutrient uptake, water relations, and soil carbon dynamics under deficit irrigation in field conditions. *Science of the Total Environment* 566-567: 1223-1234.  
<http://dx.doi.org/10.1016/j.scitotenv.2016.05.178>
- Haddaway, N., K. Hedlund, L.E. Jackson, T. Kätterer, E. Lugato, I.K. Thomsen, H.B. Jørgensen, B. Söderström. 2016. What are the effects of agricultural management on soil organic carbon in boreotemperate systems? A systematic map. *Environmental Evidence* 4-23. doi: 10.1186/s13750-015-0049-0.  
<http://www.environmentalevidencejournal.org/content/4/1/23>
- Bowles, T.M., A.D. Hollander, K.L. Steenwerth, and L.E. Jackson. 2015. Tightly-coupled plant-soil nitrogen cycling: Comparison of organic farms across an agricultural landscape. *PLoS ONE* 10(6): e0131888. doi:10.1371/journal.pone.0131888  
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0131888>
- Margenot, A.J., F.J. Calderón, T.M. Bowles, S.J. Parikh, L.E. Jackson. 2015. Soil organic matter functional group composition in relation to organic C, N, and P fractions in organically-managed tomato fields characterized by mid-infrared spectroscopy. *Soil Science Society of American Journal* 79: 772-782.  
[http://ucanr.edu/sites/Jackson\\_Lab/files/240282.pdf](http://ucanr.edu/sites/Jackson_Lab/files/240282.pdf)
- Bowles, T.M., P.A. Raab, and L.E. Jackson. 2015. Root expression of nitrogen metabolism genes reflects soil nitrogen cycling in an organic agroecosystem. *Plant and Soil* 392: 175-189.  
[http://ucanr.edu/sites/Jackson\\_Lab/files/215094.pdf](http://ucanr.edu/sites/Jackson_Lab/files/215094.pdf)

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- Steenwerth, K.L., A.K. Hodson, A.J. Bloom, M.R. Carter, A. Cattaneo, C.J. Chartres, J.L. Hatfield, K. Henry, J.W. Hopmans, W.R. Horwath, B.M. Jenkins, E. Kebreab, R. Leemans, L. Lipper, M.N. Lubell, S. Msangi, R. Prabhu, M.P. Reynolds, S. Sandoval Solis, W.M. Sischo, M. Springborn, P. Tiftonell, S.M. Wheeler, S.J. Vermeulen, E. Wollenberg, L.S. Jarvis, and L.E. Jackson. 2014. Climate-Smart Agriculture global research agenda: Scientific basis for action. *Agriculture and Food Security* 3:11  
<http://www.agricultureandfoodsecurity.com/content/3/1/11>
- Barrios-Masias, F.H. and L.E. Jackson. 2014. California processing tomatoes: Morphological, physiological and phenological traits associated with crop improvement during the last 80 years. *European Journal of Agronomy* 53:45-55.  
[http://ucanr.edu/sites/Jackson\\_Lab/files/215098.pdf](http://ucanr.edu/sites/Jackson_Lab/files/215098.pdf)
- Lazcano, C., F.H. Barrios-Masias, and L.E. Jackson. 2014. Arbuscular mycorrhizal effects on plant growth and soil greenhouse gas emissions under changing moisture regimes. *Soil Biology and Biochemistry* 74:184-192.  
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- Hodson, A.K., H. Ferris, A.D. Hollander, and L.E. Jackson. 2014. Nematode food webs associated with native perennial plant species and soil nutrient pools in California riparian oak woodlands. *Geoderma* 228-229:182-191.  
[http://ucanr.edu/sites/Jackson\\_Lab/files/215099.pdf](http://ucanr.edu/sites/Jackson_Lab/files/215099.pdf)
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- Barrios-Masias, F.H., R.T. Chetelat, N.E. Grulke, and L.E. Jackson. 2013. Use of introgression lines to determine the ecophysiological basis for changes in water use efficiency and yield in California processing tomatoes. *Functional Plant Biology* 41:119-132.  
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<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0052882>
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<http://www.energy.ca.gov/2012publications/CEC-500-2012-032/CEC-500-2012-032.pdf>
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<http://www.energy.ca.gov/2012publications/CEC-500-2012-031/CEC-500-2012-031.pdf>
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