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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:**

2004-2015 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 Committee of CIRAD (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

**Current teaching at University of California, Davis:**

Ecology 216, *Ecology and Agriculture*  
 Environmental and Resource Sciences 30, *World Ecosystems and Geography*

**Recent research funding:**

- CDFA-USDA Specialty Crop Block Grant Program, “Water Use Efficiency for Fruit Quality, Ecosystem Benefits and Resilience in Fresh Market Tomato Production”, 2014-2017
- CDFA-USDA Specialty Crop Block Grant Program, “Cultivar Trait Selection to Improve Tomato Water Use Efficiency and Yield Under Low Water Availability”, 2012-2015
- AFRI NIFA Fellowships Grant Program, Postdoc Amanda Hodson, “Adaptive Pest Planning: Management Strategies to Maintain Plant Health Under Climate Change”, 2012-14
- USDA NRCS Conservation Innovation Grant – CA, “Planning Successful Habitat Restoration Practices on California Farms and Ranches”, 2012-2015
- USDA-CSREES, Organic Agriculture Research & Extension Initiative, “Researcher and Farmer Innovation to Increase Nitrogen Cycling on Organic Farms”, 2009-2013

**Current areas of research:**

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

**Current 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:**

Bowles, T.M., A.D. Hollander, K.L. Steenwerth, and L.E. Jackson. Tightly-coupled plant-soil nitrogen cycling: Comparison of organic farms across an agricultural landscape. *PLOS ONE*, In Press.

- 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)
- Lipper, L., P. Thornton, B.M. Campbell, T. Baedeker, A. Braimoh, M. Bwala, P. Caron, A. Cattaneo, D. Garrity, K. Henry, R. Hottle, L. Jackson, A. Jarvis, F. Kossam, W. Mann, N. McCarthy, A. Meybeck, H. Neufeldt, T. Remington, R. Shula, P.T. Sen, R. Sessa, A. Tibu, and E.F. Torquebiau. 2014. Climate-smart agriculture for food security. *Nature Climate Change* 4:1068–1072. <http://www.nature.com/nclimate/journal/v4/n12/full/nclimate2437.html>
- 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. Sicho, M. Springborn, P. Tittone, 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. [http://ucanr.edu/sites/Jackson\\_Lab/files/215096.pdf](http://ucanr.edu/sites/Jackson_Lab/files/215096.pdf)
- Söderström, B., K. Hedlund, L.E. Jackson, T. Kätterer, E. Lugato, I.K. Thomsen and H.B. Jørgensen. 2014. What are the effects of agricultural management on soil organic carbon (SOC) stocks? *Environmental Evidence* 3:2 [http://ucanr.edu/sites/Jackson\\_Lab/files/215097.pdf](http://ucanr.edu/sites/Jackson_Lab/files/215097.pdf)
- Bowles, T.M., V. Acosta-Martínez, F. Calderón, and L.E. Jackson. 2014. Soil enzyme activities, microbial communities, and carbon and nitrogen availability in organic agroecosystems in a California landscape. *Soil Biology and Biochemistry* 68:252-262. [http://ucanr.edu/sites/Jackson\\_Lab/files/215097.pdf](http://ucanr.edu/sites/Jackson_Lab/files/215097.pdf)
- Pascual, U., L.E. Jackson, and A. Drucker. 2013. Economics of agrobiodiversity. *Encyclopedia of Biodiversity*. Second Edition. Elsevier Inc. Pages 31-44. DOI: 10.1016/B978-0-12-384719-5.00182-9 <http://www.sciencedirect.com/science/article/pii/B9780123847195001829>
- 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. [http://ucanr.edu/sites/Jackson\\_Lab/files/215095.pdf](http://ucanr.edu/sites/Jackson_Lab/files/215095.pdf)
- 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)
- Larkan, N.J., D.R. Ruzicka, T. Edmonds-Tibbett, J.M.H. Durkin, L.E. Jackson, D.P. Schachtman, F.A. Smith, S.E. Smith, and S.J. Barker. 2013. The reduced mycorrhizal colonisation

- (*rmc*) mutation of tomato disrupts five gene sequences including the *CYCLOPS/IPD3* homologue. *Mycorrhiza* 23:473-584.  
[http://ucanr.edu/sites/Jackson\\_Lab/files/215096.pdf](http://ucanr.edu/sites/Jackson_Lab/files/215096.pdf)
- Ruzicka, D.R., S. Chamala, F.H. Barrios-Masias, F. Martin, S.E. Smith, L.E. Jackson, W.B. Barbazuk, and D.P. Schachtman. 2013. Inside arbuscular mycorrhizal roots – molecular probes to understand the symbiosis. *The Plant Genome* 6:1-13. doi: 10.3835/plantgenome2012.06.0007.  
<https://www.crops.org/publications/tpg/abstracts/6/2/plantgenome2012.06.0007>
- Wheeler, S.M., M. Tomuta, V.R. Haden, and L.E. Jackson. 2013. The impacts of alternative patterns of urbanization on greenhouse gas emissions in an agricultural county. *Journal of Urbanism: International Research on Placemaking and Urban Sustainability* 6:213-235. DOI:10.1080/17549175.2013.777356.  
[http://ucanr.edu/sites/Jackson\\_Lab/files/215101.pdf](http://ucanr.edu/sites/Jackson_Lab/files/215101.pdf)
- Mehta, V.K., V.R. Haden, B.A. Joyce, D.R. Purkey, and L.E. Jackson. 2013. Irrigation demand and supply under historical and projected climate and land-use in Yolo County, California. *Agricultural Water Management* 117:70-82.  
<http://www.sciencedirect.com/science/article/pii/S0378377412002788>
- Frisvold, G.B., L.E. Jackson, J.G. Pritchett, and J. Ritten. 2013. Agriculture and ranching. Chapter 11. In: *Assessment of Climate Change in the Southwest United States: a Technical Report Prepared for the U.S. National Climate Assessment*. A report by the Southwest Climate Alliance [Gregg Garfin, Angela Jardine, Robert Merideth, Mary Black, and Jonathan Overpeck (eds.)]. Tucson, AZ: Southwest Climate Alliance. Island Press. pp. 218-239.  
<http://swcarr.arizona.edu/chapter/11>
- Haden, V.R., M. Dempsey, S. Wheeler, W. Salas, and L.E. Jackson. 2012. Use of local greenhouse gas inventories to prioritize opportunities for climate action planning and voluntary mitigation by agricultural stakeholders in California. *Journal of Environmental Planning and Management*. 56:553-571  
<http://www.tandfonline.com/doi/full/10.1080/09640568.2012.689616>
- Haden, V.R. M.T. Niles, M. Lubell, J. Perlman, and L.E. Jackson. 2012. Global and local concerns: What attitudes and beliefs motivate farmers to mitigate and adapt to climate change? *Plos One* 7:12: e52882.  
<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0052882>
- Jackson, L.E., T.M. Bowles, A.K. Hodson, C. Lazcano. 2012. Soil microbial-root and -rhizosphere processes to increase nitrogen availability and retention in agroecosystems. *Current Opinion in Environmental Sustainability*. 4:517-522  
<http://www.sciencedirect.com/science/article/pii/S1877343512000991>
- Quijas, S., L.E. Jackson, M. Maass, B. Schmid, D. Rafaelli and P. Balvanera. 2012. Plant diversity and generation of ecosystem services at the landscape scale: expert knowledge assessment. *Journal of Applied Ecology* 49:929–940.  
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- Jackson, L.E., M.M. Pulleman, L. Brussaard, K.S. Bawa, G.G. Brown, I.M. Cardoso, P.C. de Ruiter, L. García-Barrios, A.D. Hollander, P. Lavelle, E. Ouédraogo, U. Pascual, S. Setty, S.M. Smukler, T. Tschardtke, and M. van Noordwijk. 2012. Social-ecological and regional adaptation of agrobiodiversity management across a global set of research

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- Tscharntke, T., Y. Clough, L.E. Jackson, I. Motzke, I. Perfecto, J. Vandermeer, T.C. Wanger, and A. Whitbread. 2012. Global food security, biodiversity conservation and the future of agricultural intensification. *Biological Conservation* 151:53-59.  
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- Jackson, L.E., V.R. Haden, A.D. Hollander, H. Lee, M. Lubell, V.K. Mehta, A.T. O'Geen, M. Niles, J. Perlman, D. Purkey, W. Salas, D. Sumner, M. Tomuta, M. Dempsey and S.M. Wheeler. 2012. Adaptation strategies for agricultural sustainability in Yolo County, California. California Energy Commission. Publication number: CEC-500-2012-032.  
<http://www.energy.ca.gov/2012publications/CEC-500-2012-032/CEC-500-2012-032.pdf>
- Jackson, L.E., V.R. Haden, S.M. Wheeler, A.D. Hollander, J. Perlman, A.T. O'Geen, V.K. Mehta, V. Clark, and J. Williams. 2012. Vulnerability and adaptation to climate change in California agriculture. California Energy Commission. Publication number: CEC-500-2012-031.  
<http://www.energy.ca.gov/2012publications/CEC-500-2012-031/CEC-500-2012-031.pdf>
- Cavagnaro, T.R., F.H. Barrios-Masias, and L.E. Jackson. 2012. Arbuscular mycorrhizas and their role in plant growth, nitrogen interception and soil gas efflux in an organic production system. *Plant and Soil* 353:181-194.  
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[http://ucanr.edu/sites/Jackson\\_Lab/files/155602.pdf](http://ucanr.edu/sites/Jackson_Lab/files/155602.pdf)
- Smukler, S.M., S.M. Philpott, L.E. Jackson, A.-M. Klein, F. DeClerck, L. Winowiecki and C.A. Palm. 2012. Ecosystem services in agricultural landscapes. Chapter 3. In: *Integrating Ecology and Poverty Reduction: Ecological Dimensions*. (J.C. Ingram, F. DeClerck and C. Rumbaitis del Rio *et al.*, eds.). ISBN: 978-1-4419.
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- Smukler, S.M., L.E. Jackson, A.T. O'Geen, and H. Ferris. 2012. Environmental tradeoff assessment for best management practices on an organic farm in a Mediterranean-type climate. *Journal of Soil and Water Conservation* 67:16-31.  
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- Briar, S.S., A. Young-Mathews, S.W. Culman, L.E. Jackson, and H. Ferris. 2012. Nematode community responses to a moisture gradient and grazing along a restored riparian corridor. *European Journal of Soil Biology* 50: 32-38.  
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- Ruzicka, D.R., N.T. Hausmann, F.H. Barrios-Masias, L.E. Jackson, and D.P. Schachtman. 2012. Transcriptomic and metabolic responses of mycorrhizal roots to nitrogen patches under field conditions. *Plant and Soil* 350:145-162.  
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