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- Employment *The LeBauer Approach, LLC*
Mar 2024–present. Owner and Principal Scientist
Modeling Lead and Project Manager, California Cropland Measurement and Modeling Framework (Sept 2024–present)
Scientific Advisor, Varaha Climate AG (Jun 2024–present).
- Indigo Ag*
Feb 2023–Feb 2024. Staff Scientist and Technical Lead, Model Validation and Calibration.
- University of Arizona*
July 2018–Jan 2023. Director of Data Science for the Division of Agriculture, Life and Veterinary Sciences and Cooperative Extension.
Jan 2024–present. Associate Data Scientist and Former Director of Data Science.
- University of Illinois at Urbana-Champaign*
Aug 2012–June 2018. Research Scientist, Carl R. Woese Institute for Genomic Biology
Research Manager, Energy Biosciences Institute Feedstock Productivity and Ecosystem Services Modeling Program (2012–2015)
Fellow, National Center for Supercomputing Applications (2015–2018)
Adjunct Faculty, Department of Agriculture and Biological Engineering (2017–2018).
Aug 2009–July 2012. Postdoctoral Researcher, Energy Biosciences Institute.
- North Carolina Agricultural and Technical State University*
June 2003–July 2004. Lab Manager, Mushroom Biology and Fungal Biotechnology Laboratory.
- Duke University*
June 1996–July 2001. Laboratory and Field Technician, Biogeochemistry and Community Ecology Labs.
- Education 2008. PhD Earth System Science, University of California at Irvine. thesis: 'Carbon Balance of Ecosystems Under Nitrogen Enrichment'.
2003. MS Ecology, Agriculture concentration, University of California at Davis.
1998. BS Biology, Duke University.
- Publications *Monographs*
LeBauer, D. S., D. Wang, K. T. Richter, C. C. Davidson, and M. C. Dietze (2013). Facilitating feedbacks between field measurements and ecosystem models. *Ecological Monographs* 83(2), 133–154. doi: 10.1890/12-0137.1.
- Journal articles*
Lachowiec, J., M. J. Feldman, F. I. Matias, D. **LeBauer**, and A. Gregory (2024). Adoption of unoccupied aerial systems in agricultural research. *The Plant Phenome Journal* 7(1), e20098. doi: <https://doi.org/10.1002/ppj2.20098>.

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- Roy, B., V. Sagan, A. Haireti, M. Newcomb, R. Tuberosa, D. **LeBauer**, and N. Shakoor (2023). Early Detection of Drought Stress in Durum Wheat Using Hyperspectral Imaging and Photosystem Sensing. *Remote Sensing* **16**(1), 155. doi: 10.3390/rs14010155.
- Matias, F. I., A. Green, J. A. Lachowiec, D. **LeBauer**, and M. Feldman (2022). Bison-Fly: An open-source UAV pipeline for plant breeding data collection. *The Plant Phenome Journal* **5**(1), e20048. doi: 10.1002/ppj2.20048.
- Todd-Brown, K., R. Z. Abramoff, J. Beem-Miller, H. K. Blair, S. Earl, K. J. Frederick, D. R. Fuka, M. G. Santamaría, J. W. Harden, K. A. Heckman, L. J. Heran, J. R. Holmquist, A. M. Hoyt, D. H. Klinges, D. S. **LeBauer**, A. Malhotra, S. C. McClelland, L. E. Nave, K. S. Rocci, S. M. Schaeffer, S. Stoner, S. F. von Fromm Natasja van Gestel, and M. L. Younger (2022). Review and Synthesis: The promise of big soil data, moving current practices towards future potential. *Biogeosciences Discussions*. doi: 10.5194/bg-2021-323.
- Davis, S. C., J. T. Abatzoglou, and D. S. **LeBauer** (2021). Expanded Potential Growing Region and Yield Increase for Agave americana with Future Climate. *Agronomy* **11**(11). doi: 10.3390/agronomy11112109.
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- systems. *Current Research in Environmental Sustainability* **3**, 100097. doi: <https://doi.org/10.1016/j.crsust.2021.100097>.
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- Sahneh, F., M. A. Balk, M. Kisley, C.-k. Chan, M. Fox, B. Nord, E. Lyons, T. Swetnam, D. Huppenkothen, W. Sutherland, R. L. Walls, D. P. Quinn, T. Tarin, D. **LeBauer**, D. Ribes, D. P. Birnie III, C. Lushbough, E. Carr, G. Nearing, J. Fischer, K. Tyle, L. Carrasco, M. Lang, P. W. Rose, R. R. Rushforth, S. Roy, T. Matheson, T. Lee, C. T. Brown, T. K. Teal, M. Papes, S. Kobourov, and N. Merchant (2021). Ten simple rules to cultivate transdisciplinary collaboration in data science. *PLOS Computational Biology* **17**(5), 1–12. doi: [10.1371/journal.pcbi.1008879](https://doi.org/10.1371/journal.pcbi.1008879).
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- Davis, S. C., D. S. **LeBauer**, and S. P. Long (2014). Light to liquid fuel: theoretical and realized energy conversion efficiency of plants using Crassulacean Acid Metabolism (CAM) in arid conditions. *Journal of experimental botany* **65**(13), 3471–3478. doi: 10.1093/jxb/eru163.
- Dietze, M. C., S. P. Serbin, C. Davidson, A. R. Desai, X. Feng, R. Kelly, R. Kooper, D. S. **LeBauer**, J. Mantooth, K. McHenry, and D. Wang (2014). A quantitative assessment of a terrestrial biosphere model's data needs across North American biomes. *Journal of Geophysical Research: Biogeosciences* **119**(3), 286–300. doi: 10.1002/2013JG002392.
- Dietze, M. C., D. S. **LeBauer**, and R. Kooper (2013). On improving the communication between models and data. *Plant, Cell & Environment* **36**(9), 1575–1585. doi: 10.1111/pce.12043.
- LeBauer**, D. S., M. C. Dietze, and B. M. Bolker (2013). Translating Probability Density Functions : From R to BUGS and Back Again. *R Journal* **5**(1), 207–209.
- Wang, D., D. S. **LeBauer**, and M. Dietze (2013). Predicting yields of short-rotation hybrid poplar (*Populus* spp.) for the United States through model–data synthesis. *Ecological Applications* **23**(4), 944–958. doi: 10.1890/12-0854.1.
- Wang, D., D. S. **LeBauer**, G. Kling, T. Voigt, and M. C. Dietze (2013). Ecophysiological screening of tree species for biomass production: trade-off between production and water use. *Ecosphere* **4**(11), art138. doi: 10.1890/ES13-00156.1.
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- LeBauer**, D. S. and K. K. Treseder (2008). Nitrogen limitation of net primary productivity in terrestrial ecosystems is globally distributed. *Ecology* **89**(2), 371–9. doi: 10.1890/06-2057.1.
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Conference proceedings

- LeBauer**, D., M. Burnette, N. Fahlgren, R. Kooper, K. McHenry, and A. Stylianou (2021). What Does TERRA-REF's High Resolution, Multi Sensor Plant Sensing Public Domain Data Offer the Computer Vision Community? In: *Proceedings of the IEEE/CVF International Conference on Computer Vision*, pp.1409–1415.
- Pistorius, J., C. Martin, S. Sudarshan, and D. S. **LeBauer** (2020). Exosphere - Bringing The Cloud Closer. In: *2020 IEEE/ACM International Workshop on Interoperability of Supercomputing and Cloud Technologies (SuperCompCloud)*. IEEE, pp.1–6. doi: 10.1109/SuperCompCloud51944.2020.00006.
- Schnaufer, C., J. L. Pistorius, and D. S. **LeBauer** (2020). An open, scalable, and flexible framework for automated aerial measurement of field experiments. In: *Proceedings of SPIE*. doi: 10.1117/12.2560008.
- Burnette, M., R. Kooper, J. Maloney, G. S. Rohde, J. A. Terstriep, C. Willis, N. Fahlgren, T. Mockler, M. Newcomb, V. Sagan, et al. (2018). TERRA-REF Data Processing Infrastructure. In: *Proceedings of the Practice and Experience on Advanced Research Computing*. ACM, pp.27.
- Lin, T., D. S. **LeBauer**, L. Rodriguez, and S. Wang (2015). A holistic workflow development for agricultural supply chain analysis: Integration of meteorological forecasting, crop simulation, and supply chain optimization models. In: *1st Climate Change Symposium - Adaptation and Mitigation*. 152143848. ASABE.
- Kooper, R., K. McHenry, M. C. Dietze, D. S. **LeBauer**, S. Serbin, and A. Desai (2013). Ecological Cyberinfrastructure and HPC Towards More Accurately Predicting Future Levels of Greenhouse Gases. In: *XSEDE13*.

Data

- Lachowiec, J., M. Feldman, F. Inacio Matias, D. **LeBauer**, and A. Gregory (n.d.). *Data and Code from a Survey of UAS for Phenotyping in Agriculture*. doi: 10.5281/zenodo.10783692.
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- LeBauer**, D. S., S. Davis, and J. Abatzoglou (2022). *Data from: Expanded potential growing region and yield increase for Agave americana with future climate*. doi: 10.25422/azu.data.16828279.v1.
- David, E., M. Serouart, D. Smith, S. Madec, K. Velumani, S. Liu, X. Wang, F. P. Espinosa, S. Shafiee, I. S. A. Tahir, H. Tsujimoto, S. Nasuda, B. Zheng, N. Kichgessner, H. Aasen, A. Hund, P. Sadeghi-Tehran, K. Nagasawa, G. Ishikawa, S. Dandrifosse, A. Carlier, B. Mercatoris, K. Kuroki, H. Wang, M. Ishii, M. A. Badhon, C. Pozniak, D. S. **LeBauer**, M. Lilimo, J. Poland, S. C. Chapman, B. de Solan, F. Baret, I. Stavness, and W. Guo (2021).

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- LeBauer**, D. and J. Guo (2021). *Data and Code from: On-farm land management strategies and production challenges in United States Organic Agricultural Systems*. Version mpanga2021. Zenodo. doi: 10.5281/zenodo.5565519. <https://doi.org/10.5281/zenodo.5565519>.
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- LeBauer**, D. S. and K. K. Treseder (2016). *Data and Code From "Nitrogen Limitation of Net Primary Productivity in Terrestrial Ecosystems is Globally Distributed"*. doi: 10.6084/m9.figshare.c.3300164.v1. <https://doi.org/10.6084/m9.figshare.c.3300164.v1>.
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- Letters*
- Jaiswal, D., A. P. De Souza, S. Larsen, D. S. **LeBauer**, F. E. Miguez, G. Sparovek, G. Bollero, M. S. Buckeridge, and S. P. Long (2019). Reply to: Brazilian ethanol expansion subject to limitations. *Nature Climate Change* **9**(3), 211.
- Other Software
- LeBauer**, D., M. Burnette, C. Willis, Z. Li, R. Pless, S. Hajmohammadi, S. Rohde, and T. R. contributors (2017). *TERRA Reference Phenotyping Platform database and computing pipeline* (terraref.org). code: [github.com/terraref.terraref.org](https://github.com/terraref/terraref.org).
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- Miguez, F. E., D. Jaiswal, D. S. **LeBauer**, D. Wang, and J. McGrath (2015). *BioCro Crop Productivity and Ecosystem Service Simulation Model*. code: github.com/ebimodeling/biocro. Version 0.93. Dynamical simulation model combining physics, chemistry and physiological processes to predict crop growth and water use. doi: [10.5281/zenodo.15859](https://doi.org/10.5281/zenodo.15859). github.com/ebimodeling/biocro.

Book chapter

- Isikhuemhen, O. and D. **LeBauer** (2004). "Growing *Pleurotus tuberregium*". In: *Oyster Mushroom Cultivation*. Seoul, Korea: MushWorld, pp. 270–281.

Miscellaneous

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- LeBauer**, D. (2015). *Shiitake Cultivation on Logs*. <https://www.overleaf.com/articles/shiitake-cultivation-on-logs/xphccwyzhbb.pdf>.
- Tu, A. and D. **LeBauer** (2011). *Data Entry Workflow for the Biofuel Ecophysiological Traits and Yields Database*.

Invited talks	<p>2023 <i>Building a Data Science Support Team (YouTube)</i>. Case Studies in Data Science, UCSD Masters of Advanced Studies Data Science and Engineering Program, San Diego, CA.</p> <p>2020 <i>Software to Streamline Sharing of Agricultural Algorithms and Data</i>. Challenges and Opportunities in Plant Science Data Management workshop, Plant and Animal Genome Conference, San Diego, CA.</p> <p>2019 <i>Agriculture in the Digital Age: Challenges and Opportunities</i>. Department of Electrical and Computer Engineering Seminar, Gainesville, FL.</p> <p>2019 <i>Vocabularies, APIs, and Formats for Heterogeneous High Throughput Crop Phenotyping Data</i>. Interoperability and Federation Across Bioinformatic Platforms and Resources, Plant and Animal Genome Conference, San Diego, CA.</p> <p>2018 <i>Open Software, Data, and Computing Frameworks to Advance High Throughput Phenomics and Agricultural Forecasting</i>. Center for Sustainable Resource Science, RIKEN Yokohama Campus, Yokohama, Japan.</p> <p>2018 <i>Open Software, Data, and Computing Frameworks to Advance High Throughput Phenomics and Agricultural Forecasting</i>. Data driven crop design technology. Institute of Mathematics for Industry, Kyushu University, Fukuoka, Japan.</p> <p>2018 <i>Software and Data as Scaffolds for Integrative Science</i>. Department of Agricultural and Biological Engineering, University of Arizona, Tucson, AZ.</p> <p>2017 <i>Panelist</i>. Agricultural Data Integration: From Genomics to Unmanned Systems. Institute of Mathematics and its Applications, University of Minnesota, Minneapolis, MN.</p> <p>2017 <i>TERRA REF Data and Computing Infrastructure</i>. DARPA Data Driven Discovery of Models (D3M) Fall Hackathon and Evaluation Dry-Run, Arlington, VA.</p> <p>2017 <i>TERRA REF Data and Computing Infrastructure..</i> ARPA-E Joint TERRA and ROOTS Annual Meeting, Saint Louis, MO.</p>
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- 2017 *Software and Data as Scaffolds for Integrative Science..* College of Agriculture, Purdue University, West Lafayette, IN.
- 2017 *A Meteorological Data Format That Makes Research Easier and Will Work for Imaging Sensors..* Phenome 2017, Tucson, AZ.
- 2016 *Building Open Access Data, Computing, and Software Infrastructure for High Throughput Phenomics.* Plant Imaging Consortium Annual Meeting, University of Arkansas, Fayetteville, AK.
- 2016 *An open access crop observatory and computing platform for plant breeding.* ROGER Users Meeting, National Center for Supercomputing Applications, Urbana, IL.
- 2016 *Uncertainty Analysis in the Predictive Ecosystem Analyzer (PEcAn).* PEcAn 2 Terrestrial Model Informatics Workshop, Boston University, Boston, MA.
- 2016 *Opportunities to Improve Cropping Systems with Data.* International Food Security at Illinois Symposium: Using Big Data to Improve International Food Security, University of Illinois, Urbana, IL.
- 2016 *Demonstration of The TERRA Phenotyping Reference Platform.* 5th National Data Service Consortium Workshop, Chapel Hill, NC.
- 2015 *An open-access platform for quantification of plant traits from big sensor data.* Informatics for Reproducibility in Earth and Environmental Science Research, American Geophysical Union, San Francisco, CA.
- 2015 *Software for Ecological Inference and Prediction: What We Have and What We Need.* Developing, Maintaining, and Employing Large Computational Frameworks in the Ecological Sciences. Statistical and Applied Mathematical Sciences Institute, Durham, NC.
- 2014 *Modeling the Productivity and Ecosystem Services of Sugarcane.* Global Sustainable Bioenergy and FAPESP annual meeting, Piracicaba, Brazil.
- 2014 *PEcAn: A probabilistic modeling workflow for deterministic models.* FACE-IT Workshop, Computation Institute, University of Chicago, Chicago, IL.
- 2013 *Modeling Bioenergy Feedstock Productivity and Ecosystem Services.* Global Bioenergy Crop Modeling Workshop, Oak Ridge National Laboratory, Oak Ridge, TN.
- 2013 *Reducing uncertainty through data-driven model development.* Uncertainty Analysis: A Critical Step in Ecological Synthesis, Organized Oral Session, Ecological Society of America Meetings, Minneapolis, MN.
- 2010 *PEcAn, a workflow management tool for real-time data assimilation and forecasting.* Combining Experiments, Process Studies, and Models to Forecast the Future of Ecosystems, Communities, and Populations. Organized Oral Session, Ecological Society of America Meetings, Pittsburgh, PA.

- Grants
- 2024–2026. California Cropland Carbon Monitoring and Modeling Framework, California Air Resources Board. co-PI, Modeling Workflow Lead, Project Manager (\$1.3m).
 - 2022–2023. Broadening Diversity in the North American Plant Phenotyping Network, Agricultural Genome to Phenome Initiative (AG2PI). PI (\$15k).
 - 2021–2022. Empowering High-Throughput Phenotyping using Unoccupied Aerial Vehicles (UAVs), Agricultural Genome to Phenome Initiative (AG2PI). co-PI (\$20k).
 - 2021–2022. Evaluating High Bandwidth Satellite Communications for Data Intensive Agriculture, Yuma Center for Desert Agriculture Small Grants Program. PI (\$20k).
 - 2019–2022. The Agricultural Research Data Network (ARDN), USDA-NIFA. Co-PI (\$75k of \$500k).
 - 2018–2021. SENTINEL: SENsing Threats In Natural Environments using Ligand-receptor modules, DARPA. Co-PI (\$731k of \$10m).

	<p>2016–2019. Global Sustainable Bioenergy Initiative: Geospatial and environmental analysis of pastureland intensification for bioenergy, FAPESP (Fundacao de Amparo a Pesquisa do Estado de Sao Paulo). Co-PI (\$200k).</p> <p>2016–2019. TERRA REF Computing and Storage Allocation, National Center for Supercomputing Applications: Blue Waters project and CyberGIS Center. PI, Data and Computing Pipeline Lead (\$1m+ in computing resources).</p> <p>2015–2019. A Reference Phenotyping System for Energy Sorghum, U.S. Department of Energy: Advanced Research Projects Agency - Energy (ARPA-E). Co-PI (\$1.7m of \$8.4m).</p> <p>2015–2017. TERRA-MEPP (Mobile Energy-crop Phenotyping Platform), U.S. Department of Energy: Advanced Research Projects Agency - Energy (ARPA-E). Co-PI (\$132k of \$3.4m).</p> <p>2014. Advancing Software for Ecological Forecasting (Workshop), Microsoft Research Connections, Carl R Woese Institute for Genomic Biology, DOE RCN Forecast. Chair and Co-PI (\$30k).</p> <p>2012–2015. Feedstock and Ecosystem Service Modeling Program, Energy Biosciences Institute. Lead author (\$2.5m).</p> <p>2011–2014. Model-data synthesis and forecasting across the upper Midwest; Partitioning uncertainty and environmental heterogeneity in ecosystem carbon., NSF Advances in Bioinformatics Infrastructure. Co-author (\$770k).</p>
Awards	<p>2023. Equity, Inclusion, and Diversity Award, North American Plant Phenotyping Network.</p> <p>2021. Best Paper, 7th workshop on Computer Vision in Plant Phenotyping and Agriculture. ICCV 2021.</p> <p>2017. Outstanding Students Pushing Innovation (SPIN) Mentor, National Center for Supercomputing Applications.</p> <p>2014–2015. NCSA Fellowship, National Center for Supercomputing Applications (\$25k).</p> <p>2006. Mildred E. Mathias Graduate Research Grant, UC Natural Reserve System, Decomposition responses to nitrogen in a California grassland (\$1k).</p> <p>2005–2007. Graduate Fellowship, Kearney Soil Science Foundation (\$34k).</p> <p>1998. Honors in Ecology and Graduation with Distinction, Duke University Department of Biology.</p> <p>1998. Benenson Award in the Arts, Duke University (\$1.5k).</p>
Teaching	<p>2021. Open Science Synthesis for the Delta Science Program, National Center for Ecological Analysis and Synthesis. Davis, CA.</p> <p>2018–present. CCT Data Science Workshops. urldata-science.cals.arizona.edu/workshops.</p> <p>2017. Data Science in Modern Agriculture (Graduate Seminar), University of Illinois Department of Agricultural and Biological Engineering, Urbana, IL.</p> <p>2017–2018. Instructor, Computational Mathematics Bootcamp, Program for Interdisciplinary and Industrial Internships at Illinois, Urbana, IL. pi4-uiuc.github.io/2017-bootcamp.</p> <p>2017. Instructor, Advanced Phenomics Workshop, Purdue University Departments of Agronomy and Agricultural and Biological Engineering, West Lafayette, IN..</p> <p>2015–2018. Instructor, Urbana Math Circle, Urbana, IL. urbanamathcircle.blogspot.com.</p> <p>2015–present. Software Carpentry Instructor.</p> <p>2015. Instructor, Shiitake Cultivation on Logs, The Land Connection, Urbana, IL.</p> <p>2013–2014. Instructor, PEcAn Software Training, Ecological Society of America Meeting.</p> <p>2009. Instructor, Global Change Biology, California Summer School for Science and Math.</p> <p>2008. TA, Experimental Biology Lab, UC Irvine.</p>

- 2008. TA, Atmospheric and Environmental Sciences, California Summer School for Science and Math.
- 2008. TA, GIS for Environmental Science, UC Irvine.
- 2007. TA, Global Change Biology, UC Irvine.
- 2006. TA, GIS for Environmental Science, UC Irvine.
- 2003. Instructor, Shiitake Cultivation Workshops, Hosted by NC Extension at multiple locations.
- 2003. TA, Mushroom Cultivation, UC Davis.
- 1997. TA, Archaeology and Geology Southwest field trip, Duke Talent Identification Program.

Service *Academic*

- 2021. Co-organizer. University of Arizona Drone Day
urldrones.arizona.edu/ua-drone-day-2022.
- 2021–2022. Organizing Committee. North American Plant Phenotyping Network Conference.
- 2020–2023. Member. University of Arizona Data Science Resources and Training Steering Committee.
- 2017–present. Google Summer of Code Mentor. PEcAn Project.
- 2015–2018. Undergraduate Student Mentor. Students Pushing Innovation Program, National Center For Supercomputing Applications.
- 2015–2016. Reviewer. EarthCube Architecture Conceptual Design.
- 2014–2016. Graduate Student Summer Intern Mentor. Program for Interdisciplinary and Industrial Internships at Illinois.
- 2012–2016. Campus Representative. National Ecological Observatory Network (NEON).
- 2009–2011. Expert for Climate Science Experts Referral Service. American Geophysical Union.
- 2006–2008. Judge. California State Science Fair.
- 2006–2007. Graduate Student Representative. UC Irvine Department of Earth System Science.
- 2005–2006. Graduate Student Seminar Organizer. UC Irvine Department of Earth System Science.
- 2003. Project Mentor. FARMS Leadership, Inc. and Sacramento Public Schools.
- 1998–1999. Guest Teacher, K-12. Sigma Xi, Scientists in the Classroom.

Workshops

- February 2019. Organizer. PEcAn+CLM Coupling and Beyond Workshop and Hackathon.
Santa Rita Experimental Range, Green Valley, Arizona.
- February 2018. Co-organizer. Big Data Driven Agriculture: Advances, Challenges, and Opportunities. USDA NIFA-FACT, Alexandria, VA.
- November 2017. Invited participant. The Subterranean Macroscope: Sensor Networks for Understanding, Modeling, and Managing Soil Processes. NSF, Chicago, IL.
- February 2017. Co-organizer, lead instructor. Using TERRA REF phenotyping data. Phenome 2017, Tucson, AZ.
- February 2017. Co-organizer. Phenome 2017 post-conference hackathon. University of Arizona, Tucson, AZ.
- January 2017. Invited Participant. Moving Field Phenomics From Theory to Practice. US-UK Phenomics Workshop, Maricopa, AZ.
- October 2016. Invited Participant. Plant Science Cyberinfrastructure Initiative. Plant Science Research Network, Washington, DC.

- August 2016. Session Co-Organizer. Hacking Ecology 2.0, a showcase of open tools for data-driven ecology. Ecological Society of America Annual Meetings, Fort Lauderdale, FL.
- November 2014. Workshop Co-Organizer. Soil Carbon Cycle Super-Modeling. Biosphere 2, Oracle, AZ.
- August 2014. Symposium Co-Organizer. Challenges and Advances in Statistical Software For Ecology.. Ecological Society of America Annual Meetings, Sacramento, CA.
- March 2014. Workshop Chair and Co-Organizer. Advancing Software for Ecological Forecasting. Urbana, IL.

Grant Reviews

United States Department of Agriculture, US National Science Foundation, Foundation for Food and Agricultural Research

Journal Reviewer

Applied Soil Ecology, Ecology, Ecology Letters, Ecological Applications, Frontiers in Plant Science (Review Editor), Global Change Biology, Global Change Biology - Bioenergy, Geophysical Research Letters, Global Ecology and Biogeography, Journal of Geophysical Research, Journal of Geophysical Research - Biogeosciences, Journal of Open Source Software, Journal of Open Source Education, Nature Climate Change, Nature Scientific Reports, New Phytologist, Open Data Journal for Agricultural Research, Plants, People, Planet, Proceedings of the National Academy of Sciences of the United States of America, Plant Soil

Consultancy

2015–2018. Agrible, Inc., Champaign, IL

2015–2016. Smithsonian Institution, CTFS – ForestGEO Ecosystems and Climate Initiative, Falls Church, Va

2011–2014. Global Change Solutions, LLC, Urbana, IL

1999–2000. Wildflower Organics, Dawsonville, GA

2000. Crabtree Valley Farms, Chatanooga, TN

1999. Sustenance Farm, Bear Creek, NC