

Laureano A. Gherardi

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Academic Background

Ph.D, Biology, 2015, Arizona State University, Arizona, United States
M.Sc, Biology, 2013, Arizona State University, Arizona, United States
B.Sc, Agronomy, 2006, University of Buenos Aires, Buenos Aires, Argentina

Peer Reviewed Publications

- Franco, A.L.C., **L.A. Gherardi**, C.M. de Tomasel, W.S. Andriuzzi, K. Ankrom, E. Bach, P. Guan, O.E. Sala, and D.H. Wall. 2020. Root herbivory controls the effects of water availability on the partitioning between above and belowground grass biomass. **Functional Ecology** **34**:2403-2410.
- Gherardi, L.A.**, and O.E. Sala. 2020. Global patterns and climatic controls of belowground net carbon fixation. **PNAS**, **117**:20038-20043.
- Ankrom, K.E., A.L.C. Franco, S.J. Fonte; **L.A. Gherardi**, C. Milano de Tomasel, W.S. Andriuzzi, A. Shaw, O.E. Sala and D.H. Wall. 2020. "Ecto- and endoparasitic nematodes differ in response to precipitation across a temporal, but not a spatial gradient". **Oecologia**, **193**:761-771.
- Sitters J., E.R. Jasper Wubs, E.S. Bakker, T.W. Crowther, P.B. Adler, S. Bagchi, J.D. Bakker, L. Biederman, E.T. Borer, E.E. Cleland, N. Eisenhauer, J. Firn, **L.A. Gherardi**, N. Hagenah, Y. Hautier, S.E. Hobbie, J.M. H. Knops, A.S. MacDougall, R.L. McCulley, J.L. Moore, B. Mortensen, P.L. Peri, S.M. Prober, C. Riggs, A.C. Risch, M. Schütz, E.W. Seabloom, J. Siebert, C.J. Stevens and G.F. (Ciska) Veen. 2020. Nutrient availability controls the impact of mammalian herbivores on soil carbon and nitrogen pools in grasslands. **Global Change Biology** **26**:2060-2071.
- Bharath, S., E.T. Borer, L. Biederman, D. Blumenthal, P. Fay, **L.A. Gherardi**, J. Knops, A. Leakey, L. Yahdjian, and E.W. Seabloom. 2020. Nutrient addition increases grassland sensitivity to droughts. **Ecology** **101** (5), e02981.
- Andriuzzi, W. S., A. L. C. Franco, K. E. Ankrom, S. Cui, C. M. de Tomasel, P. Guan, **L. A. Gherardi**, O. E. Sala, and D. H. Wall. 2020. Body size structure of soil fauna along geographic and temporal gradients of precipitation in grasslands. **Soil Biology and Biochemistry** **140**:107638.
- Franco, A. L. C., **L. A. Gherardi**, C. M. de Tomasel, W. S. Andriuzzi, K. E. Ankrom, E. A. Shaw, E. M. Bach, O. E. Sala, and D. H. Wall. 2019. Drought suppresses soil predators and promotes root herbivores in mesic, but not in xeric grasslands. **Proceedings of the National Academy of Sciences** **116**:12883-12888.
- Gherardi, L. A.**, and O. E. Sala. 2019. Effect of interannual precipitation variability on dryland productivity: A global synthesis. **Global Change Biology** **25**:269-276.
- Crowther, T. W., C. Riggs, E. M. Lind, E. T. Borer, E. W. Seabloom, S. E. Hobbie, J. Wubs, P. B. Adler, J. Firn, **L. A. Gherardi**, N. Hagenah, K. S. Hofmockel, J. M. H. Knops, R. L. McCulley, A. S. MacDougall, P. L. Peri, S. M. Prober, C. J. Stevens, and D. Routh. 2019. Sensitivity of global soil carbon stocks to combined nutrient enrichment. **Ecology Letters** **22**:936-945.
- Corman, J., S. Collins, E. Cook, C. Crenshaw, X. Dong, **L. A. Gherardi**, N. Grimm, R. Hale, T. Lin, J. Ramos, L. Reichmann, and O. Sala. 2019. Foundations and Frontiers of Ecosystem Science: Legacy of a Classic Paper (Odum 1969). **Ecosystems** **22**:1160-1172.
- X. Yuan, D. Niu, **L. A. Gherardi**, Y. Liu; Y. Wang and J. Elser 2019. Linkages of stoichiometric imbalances to soil microbial respiration with increasing nitrogen addition: evidence from a long-term grassland experiment. **Soil Biology & Biogeochemistry** **108**:107580.
- Petrie, M., D. Peters, J. Yao, D. Burruss, J. Derner, **L. A. Gherardi**, J. Hendrickson, O. E. Sala, P. Starks, and J. Steiner. 2018. Regional grassland productivity responses to precipitation during multi-year above- and

- below-average rainfall periods: consequences for responses under climate change. *Global Change Biology* **24**:1935-1951.
- Wilcox, K., Z. Shi, **L. A. Gherardi**, N. P. Lemoine, S. E. Koerner, D. L. Hoover, E. Bork, K. Byrne, J. James Cahill, S. L. Collins, S. Evans, A. K. Gilgen, P. Holub, L. Jiang, A. K. Knapp, L. Yahdjian, D. R. LeCain, J. Liang, J. Peñuelas, W. T. Pockman, M. D. Smith, S. R. White, K. Zhu, and Y. Luo. 2017. Asymmetric responses of primary productivity to climate extremes: a synthesis of grassland precipitation manipulation experiments. *Global Change Biology* **23**:4376-4385.
- Gherardi, L. A.** and O. E. Sala. 2015. Enhanced interannual precipitation variability increases plant functional diversity that in turn ameliorates negative impact on productivity. *Ecology Letters* **18**:1293-1300.
- Gherardi, L. A.** and O. E. Sala. 2015. Enhanced precipitation variability decreases grass- and increases shrub-productivity. *Proceedings of the National Academy of Sciences* **112**:12735-12740.
- Sala, O., **L. A. Gherardi**, and D. C. Peters. 2015. Enhanced precipitation variability effects on water losses and ecosystem functioning: differential response of arid and mesic regions. *Climatic Change* **131**:213-227.
- White R.L., Sutton A.E., Salguero-Gómez R., Bray T.C., Campbell H., Cieraad E., Geekiyange N., **Gherardi L.A.**, Hughes A.C., Jørgensen P.S., Poisot T., DeSoto L. & Zimmerman N. 2015. The next generation of action ecology: novel approaches towards global ecological research. *Ecosphere*, **6**, 1-16.
- Jørgensen P.S., Barraquand F., Bonhomme V., Curran T.J., Cieraad E., Ezard T.G., **Gherardi L.A.**, Hayes R.A., Poisot T., Salguero-Gómez R., DeSoto L., Swartz B., Talbot J.M., Wee B. & Zimmerman N. 2015. Connecting people and ideas from around the world: global innovation platforms for Next-Generation ecology and beyond. *Ecosphere* **6** 1-11.
- Yahdjian, L., **L. A. Gherardi**, and O. E. Sala. 2014. Grasses have larger response than shrubs to increased nitrogen availability: a fertilization experiment in the Patagonian Steppe. *Journal of Arid Environments* **102**:17-20.
- Hallett, L. M., J. S. Hsu, E. E. Cleland, S. L. Collins, T. L. Dickson, E. C. Farrer, **L. A. Gherardi**, K. L. Gross, R. J. Hobbs, L. Turnbull, and K. N. Suding. 2013. Biotic mechanisms of community stability shift along a precipitation gradient. *Ecology* **95**:1693-1700.
- Gherardi, L.A.**, O. Sala, and L. Yahdjian. 2013. Preference for different inorganic nitrogen forms among plant functional types and species of the Patagonian steppe. *Oecologia* **173**:1075-1081.
- Cleland, E. E., S. L. Collins, T. L. Dickson, E. C. Farrer, K. L. Gross, **L. A. Gherardi**, L. M. Hallett, R. J. Hobbs, J. S. Hsu, L. Turnbull, and K. N. Suding. 2013. Sensitivity of grassland plant community composition to spatial vs. temporal variation in precipitation. *Ecology* **94**:1687-1696.
- Gherardi, L. A.** and O. E. Sala. 2013. Automated rainfall manipulation system: a reliable and inexpensive tool for ecologists. *Ecosphere* **4**:art18.
- Sala, O. E., **L. A. Gherardi**, L. G. Reichmann, E. Jobbágy, and D. P. C. Peters. 2012. Legacies of precipitation fluctuations on primary production: Theory and data synthesis. *Philosophical Transactions of the Royal Society Series B, Biological Sciences* **367**:3135-3144.
- Yahdjian, L., **L.A. Gherardi**, and O. E. Sala. 2011. Nitrogen limitation in arid-subhumid ecosystems: a meta-analysis of fertilization studies. *Journal of Arid Environments* **75**:675-680.

Submitted Publications

- Walter J. A., Shoemaker L., Lany N. K., Castorani M., Fey S., Dudney J., **Gherardi L. A.**, Portales-Reyes C., Rypel A., Cottingham K., Suding K., Reuman D. and Hallett L. M. The spatial synchrony of species richness and its implications for ecosystem stability.
- Tognetti P.M., Prober S., Baez S., Borer E., Chaneton E., Firn J., **Gherardi L.A.**, Lind E., Risch A., Schuetz D., Simonsen A., Seabloom E. and Yahdjian M.L. Losing the beans: nitrogen overrides positive effects of phosphorous on legumes in grasslands worldwide.
- Fay, P.A., **L.A. Gherardi**, L. Yahdjian, *et al.* Nutrient limitation governs the primary productivity-precipitation relationship.
- Baeza, A., Sala, O.E., **Gherardi, L.A.** and Archer, S. Past, present, and future of woody-plant encroachment: Disentangling the effects of climate and land-use change.

Equity, Diversity and Inclusion Service

JEDI (Justice, Equity, Diversity and Inclusion) Committee	2020 - present
Elected member of the School of Life Sciences, Arizona State University	
Black Mothers Forum	2020 - present
Science curriculum contributor to newly established micro schools	
AZCAAR Volunteer	2020 - present
Arizona Center for African American Resources volunteer for education development in South Phoenix	
SEEDS Student Mentor	2016 - present
Strategies for Ecology Education, Development and Sustainability, Ecological Society of America	
Asombro Institute for Science Education	2013 - 2016
Contributor on development of K-12 activities based on current experimental data targeted at Hispanic students	

Extramural Grants

I contributed significantly to the ideas, design and writing of several proposals submitted to different agencies. As a result, successfully funded proposals supported my postdoc position.

2018-23 **Co-author, NSF-LTREB full proposal.** Long-term ecosystem responses to directional changes in precipitation amount and variability in an arid grassland. [PIs: Osvaldo E. Sala and Debra D.C. Peters \$478,000]

2016-19 **Co-author, USDA-NIFA-AFRI grant.** Exotic grass and woody-plant encroachment in Southwestern rangelands: Mechanisms of invasion and opportunities of containment. [PIs: Osvaldo E. Sala and Steve Archer \$500,000]

2015-18 **Co-author, NSF-DEB grant.** Water Availability Controls on Above-Belowground Productivity Partitioning: Herbivory versus Plant Response National Science Foundation. [PIs: Osvaldo E. Sala and Diana H. Wall \$718,935]

Teaching Experience

Human Impacts on Ecosystem Functioning	2015, 2016, 2017, 2018, 2019, 2020
<i>Instructor of record</i> , 25-30 advance undergraduate and 1-3 MSc students. School of Sustainability, Arizona State University	
General Biology	S 2012, S 2013, F 2013
<i>Teaching assistant</i> , three sections of 24 students each. School of Life Sciences, Arizona State University	
Terrestrial Ecology	2018
<i>Guest lecturer</i> , "Climate Change Experiments"	
Grassland Ecology	2015
<i>Guest lecturer</i> , "Nitrogen use by grassland plant species"	
Ecosystem Ecology	2014
<i>Guest lecturer</i> , "Effects of temporal variability on grassland ecosystems"	
Human Impacts on Ecosystems	2010
<i>Teaching assistant</i> , 30 advanced undergraduate students. Department of Ecology and Evolutionary Biology, Brown University	

Mentorship Experience (* indicates underserved minorities in STEM)

*Julia Petty (University of Vermont, REU Summer 2020, Jornada Basin LTER)
 Samuel Smith (Lewis and Clark College, REU Summer 2020, Jornada Basin LTER)
 *Samantha Albee (Iowa State University, REU Summer 2020, Jornada Basin LTER)
 Gretel Baur (University of San Francisco, REU Summer 2019, Jornada Basin LTER)
 *Sally Young (University of Texas, Austin, REU Summer 2019, Jornada Basin LTER)
 Claire Yager (Montana State University, REU Summer 2019, Jornada Basin LTER)
 *Marcos Saucedo (Arizona State University, REU Summer 2018, Jornada Basin LTER)
 Zoe Bergman (James Madison University, REU Summer 2018, Jornada Basin LTER)
 Noah Oas (St. Olaf University, REU Summer 2018, Jornada Basin LTER)
 *Ernesto Vazquez (Arizona State University, Student helper School year 2017-2018)
 Andrew Hallberg (St. Olaf University, REU Summer 2017, Jornada Basin LTER)
 *Marcos Saucedo (Arizona State University, REU Summer 2017, Konza Prairie LTER)
 Alexandra Stettner (Colorado State University, REU Summer 2017, Konza Prairie LTER)
 *Miranda Vega (Arizona State University, REU Summer 2017, Jornada Basin LTER)
 Jake Stoner (Arizona State University, REU Summer 2016, Jornada Basin LTER)
 *Jennifer Flores (Arizona State University, Student helper 2016-2017)
 *Alicia Flores (Arizona State University, Student helper 2016-2017)

Invited Seminars

LTER Diversity Committee seminar series

An academic journey through climate variability and ecosystem functioning. Host: Cristy Portales-Reyes

University of California, Los Angeles, Department of Geography

Precipitation variability effect on ecosystem functioning: experimentation, modelling and data synthesis from local to global scale. Host: Shaina Potts

University of New Mexico, Department of Biology

Partitioning of Net Primary Production: patterns and mechanisms at multiple scales. Host: Scott Collins

University of California, Berkeley, Department of Environmental Science, Policy, and Management

Climate Variability and Ecosystem Functioning: experimentation, modeling and data synthesis. Host: Albert Ruhi

University of New Mexico, Department of Biology

Precipitation Variability Effect on Ecosystem Functioning: experimentation, modelling and data synthesis from local to global scale. Host: Jennifer Rudgers

National Center for Ecological Analysis and Synthesis

Precipitation Variability Effect on Grassland Ecosystems: from local to global scale.

Host: Lauren M. Hallett

Pulse-reserve Symposium

Precipitation variability effect under the pulse reserve paradigm.

Host: Sasha Reed and Scott Collins

New Mexico State University, Department of Animal and Range Sciences

Precipitation Variability Effect on Forage Production: experimentation, modelling and data synthesis

Host: Andrés Cibils

New Mexico State University, Department of Animal and Range Sciences

Rangeland Vegetation Measurement Techniques: reconciling forage production and sustainability

Host: Andrés Cibils

Working Groups and Research Coordination Networks

ILTER Synthesis Working Group <i>Ecosystem transitions: Increased variability and regime shifts</i>	2021-present
Drought-Net, Research Coordination Network <i>A global Network to assess terrestrial ecosystem sensitivity to drought</i>	2017-present
National Ecological Observatory Network <i>Integrating NEON ANPP Data with Existing Long-term and Spatially Extensive Data Sets - Providing Context and Testing Theory</i>	2017-2019
National Center for Ecological Analysis and Synthesis <i>Quantifying population and community synchrony across LTER sites</i>	2017-2019
NutNet, Research Coordination Network <i>A Global Research Cooperative to assess the effect of multiple nutrient additions on terrestrial ecosystems</i>	2014-present
NSF Long-term Ecological Research Network (LTER) cross-site synthesis <i>Precipitation variability effect on grassland diversity and composition (Participant)</i>	2013-2014
NSF Long-term Ecological Research Network (LTER) cross-site synthesis <i>Productivity-Diversity-Traits Network (Participant)</i>	2011-2012

Professional activities and service

Senior Manager Global Drylands Center, Arizona State University	2017- present
Subject Matter Editor Ecosphere, Ecological Society of America. Editor in chief: Debra Peters	2016- present
Working group participant and node for South America International Network of Next Generation Ecologist	2013- 2018
Elected board member International Network of Next Generation Ecologist	2013-2015
Graduate student representative Jornada Basin Long Term Ecological Research	2012-2014
Research and travel grant proposal reviewer Graduate and Professional Student Association	2011-2014
Ask a Biologist program Writer on ecosystem ecology	2012-2013
Brown University PhD Student in Ecology and Evolutionary Biology	2009-2010
Brown University Research Technician	2008-2009

Intramural Grants

Postdoctoral Research in the Life Sciences Grant. ASU, Research Advancement Office. PI: \$7,500
Completion RA Award. ASU, School of Life Sciences. PI: \$11,084.50
Climate Change Science Institute Early Career Award. Oak Ridge National Laboratory. \$500
Graduate and Professional Student Association. Travel Grant. \$895
Jornada Basin LTER. Graduate student summer fellowship. \$5700
Assistance with Facilities Grant. ASU, School of life Sciences. \$1500
ESA Southwestern Chapter. Travel Award. \$350
Jornada Basin LTER. Graduate student summer fellowship. \$5000

Assistance with Facilities Grant. ASU, School of life Sciences. \$1450
 ASU, School of life Sciences. Travel Grant. \$400
 Travel Grant. ASU, Graduate and Professional Student Association. \$475
 Facilities Initiative Grant for Grads. ASU, School of life Sciences. \$1481
 Jornada Basin LTER. Graduate student summer fellowship. \$5000
 Travel Grant. ASU, School of life Sciences. \$400
 Graduate Initiative for Training Grant. ASU, School of life Sciences. \$2500
 Travel Grant. ASU, School of life Sciences. \$400

Supplementary scientific training

Spatial Structures in the Social Sciences (S4) GIS Institute. Dr. Lynn Carlson: DEM and Field data; Dr. Crystal Linkletter: Spatial Analysis, Spatial Statistics; Dr. John Logan: Spatial Analysis, Demography, Research with Spatial/Geography themes; Dr. Rachel Franklin: GIS, Spatial Analysis, Spatial Statistics; Dr. Thomas Stieve: ArcGIS training

R: Computing for Data Analysis. The Johns Hopkins University. Professor: Dr. Roger Peng

Data visualization using R. ESA workshop. Organizer: Dr. Naupaka Zimmerman. Co-organizers: Dr. Andrew Tredennick and Dr. Karthik Ram

Century/DayCent Training Workshop, Colorado State University. Professors: Dr. William Parton, Dr. Cindy Keough, and Dr. Steve DelGrosso

Language proficiency

Spanish: Mother tongue

English: Bilingual

Portuguese: Conversational

Selected Presentations (*indicates undergraduate mentee)

Louw N., Gherardi, L.A., Sala, O., and Chung, A. Increased precipitation variability alters the composition and function of the soil mycobiome. 105th Ecological Society of America, Annual Meeting, Virtual. August 2020.

***Jung, S.**, Gherardi, L.A. and Sala, O.E. “Effects of rainfall manipulation on grass islands of fertility in the Chihuahuan Desert”. 105th Ecological Society of America, Annual Meeting, Virtual. August 2020.

Gherardi, L.A., Sala, O.E and Peters D. “Effects of contrasting rooting distribution patterns on plant transpiration along a precipitation gradient”. 105th Ecological Society of America, Annual Meeting, Virtual. August 2020.

Sala, O.E. and Gherardi, L.A. “Ecosystem response to extreme precipitation events is modulated by species interactions”. American Geophysical Union, Annual Meeting, San Francisco, CA, United States. December 2019.

Cristina Portales-Reyes, Dudley J., Sheppard L.W., Gherardi L.A., Hallett L.M., Castorani M.C.N., Cottingham K.L., Defriez E., Fey S.B., Lany N.K., Reuman D.C., Rypel A., Shoemaker L.G., Suding K.N., Walter J.A., Wang S. and Zhao L. “Parsing resilience to synchronous events in grasslands”. 104th Ecological Society of America, Annual Meeting, Louisville, Kentucky, United States. August 2019.

Gherardi, L.A., Sala, O.E., Currier, C.M., Franco, A.L.C. and Wall D.H. “Spatial and temporal controls of water availability on the partitioning of above-belowground productivity”. 104th Ecological Society of America, Annual Meeting, Louisville, Kentucky, United States. August 2019.

André L.C. Franco, Cecilia M. de Tomasel, Walter S. Andriuzzi, Katharine E. Ankrom, Elizabeth M. Bach, Laureano A. Gherardi, Osvaldo E. Sala and Diana H. Wall. “Root herbivory controls the effects of precipitation on above-belowground grass biomass partitioning: a greenhouse study”. 104th Ecological Society of America, Annual Meeting, Louisville, Kentucky, United States. August 2019.

Lawrence W. Sheppard, Cristina Portales-Reyes, Joan Dudney, Laureano Gherardi, Daniel C. Reuman, Kathryn L. Cottingham, Andrew Rypel and Lauren M. Hallett. “Community synchrony in diverse ecosystems may compromise the portfolio effect of species diversity”. 104th Ecological Society of America, Annual Meeting, Louisville, Kentucky, United States. August 2019.

Gherardi, L.A. and Sala, O.E. “Precipitation controls above-belowground partitioning of net primary production across biomes”. LTER All Scientists Meeting, Monterrey, California, 2018.

***Sauceda, M.**, Gherardi, L.A. and Sala, O.E. “Calibrating minirhizotron estimates of belowground productivity in North American grasslands”. LTER All Scientists Meeting, Monterrey, California, 2018.

***Bergmann, Z.**, Gherardi, L.A. and Sala, O.E. “Precipitation event size controls on soil respiration in the Chihuahuan Desert LTER”. All Scientists Meeting, Monterrey, California, 2018. **Poster competition award winner!**

***Castro Vega D.**, Glanville K. “Impact of changing rainfall patterns on denitrification nitrous oxide reductase lag”. 103rd Ecological Society of America, Annual Meeting, New Orleans, Louisiana, United States. August 2018.

Gherardi, L.A. and Sala, O.E. “Precipitation controls above-belowground partitioning of net primary production across biomes”. 103rd Ecological Society of America, Annual Meeting, New Orleans, Louisiana, United States. August 2018.

Gherardi, L.A., Sala, O.E., Currier A.M., Franco, A.C., and Wall, D. “Partitioning of above-belowground productivity: Spatial and temporal controls of water availability”. 102nd Ecological Society of America, Annual Meeting, Portland, Oregon, United States. August 2017.

Gherardi, L.A., Sala, O.E. and Peters, D. “Effects of contrasting rooting distribution patterns on plant transpiration along a precipitation gradient”. 101st Ecological Society of America, Annual Meeting, Fort Lauderdale, Florida, United States. August 2016.

Gherardi, L.A. and Sala, O.E. “Contrasting plant-functional type responses to increased interannual precipitation variability”. 100th Ecological Society of America, Annual Meeting, Baltimore, Maryland, United States. August 2015.

Gherardi, L.A. and Sala, O.E. “Effects of interannual precipitation variability on plant-species diversity in the Chihuahuan desert”. 99th Ecological Society of America, Annual Meeting, Sacramento, California, United States. August 2014.

Gherardi, L.A. and Sala, O.E. “Effects of interannual precipitation variability on plant-species diversity in the Chihuahuan desert”. 98th Ecological Society of America, Annual Meeting, Minneapolis, Minnesota, United States. August 2013.

Gherardi, L.A. and Sala, O.E. “Effects of interannual precipitation variability on aboveground net primary production in the Chihuahuan desert”. 97th Ecological Society of America, Annual Meeting, Portland, Oregon, United States. August 2012.

Hallett, L.M., Cleland, E.E., Adler, P.B., Collins, S.L., Dickson, T.L., Farrer, E.C., Gherardi, L.A., Gross, K.L., Hsu, J., Turnbull, L., Suding, K.N. “Compensatory dynamics increase along a gradient of precipitation variability in US grasslands”. 97th Ecological Society of America, Annual Meeting, Portland, Oregon, United States. August 2012.

Sala, O.E., Gherardi, L.A. and Peters, D. “Effects of Interannual Precipitation Variability on Ecosystem Water Balance and its Consequences for Aboveground Net Primary Production”. 97th Ecological Society of America, Annual Meeting, Portland, Oregon, United States. August 2012.

Gherardi, L.A. and Sala, O.E. “Automated Rainfall Manipulation System: a reliable, and inexpensive, tool for experimental ecologists”. 96th Ecological Society of America, Annual Meeting, Austin, Texas, United States. August 2011.

- Yahdjian, L., Gherardi, L.A. and Sala, O.E. "Grasses and shrubs had different responses to nitrogen fertilization in the arid Patagonian Steppe". 96th Ecological Society of America, Annual Meeting, Austin, Texas, United States. August 2011.
- Sala, O. E., Gherardi, L., Peters, D., Knapp, A. and Huang, H. Ecosystem sensitivity to climate warming: A modeling approach. 95th Ecological Society of America, Annual Meeting, Pittsburg, Pennsylvania, United States. August 2010.
- Fuchs, M.S., Sala, O.E., Reichmann, L.G., Gherardi, L.A. and Easter, S. Direct and indirect effects of precipitation on soil respiration in an arid ecosystem. 95th Ecological Society of America, Annual Meeting, Pittsburg, Pennsylvania, United States. August 2010.
- Easter, S., Sala, O. E., Reichmann, L.G., Fuchs, M.S. and Gherardi, L.A. Past rainfall and drought legacies do not drive patterns in belowground productivity in Southern New Mexico. 95th Ecological Society of America, Annual Meeting, Pittsburg, Pennsylvania, United States. August 2010.
- Yahdjian, L., Gherardi, L.A. and Sala O.E. Plant responses to nitrogen fertilization in water-limited ecosystems: A meta-analysis. 94th Ecological Society of America, Annual Meeting, Albuquerque, New Mexico, United States. August 2009.
- Gherardi, L. A., Sala O.E. and Yahdjian L. Differential plant preferences for inorganic nitrogen forms in the Patagonian steppe. 93rd Ecological Society of America, Annual Meeting, Milwaukee, Wisconsin, United States. August 2008.