

## Complete Curriculum Vitae

### **Dr. Ignacio A. Ciampitti**

Professor - Farming Systems, Department of Agronomy  
Contributing Faculty - International Grain Science Program at K-State University  
Director Digital Tools, Farming Systems and Geospatial Consortium, SIIL-USAID  
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<b>Education</b>	<ul style="list-style-type: none"><li>- Post-doctoral researcher, Farming Systems– Purdue University (GPA 4.0) – 2012-2013</li><li>- Ph.D. Crop Physiology and Plant Nutrition– Purdue University (GPA 4.0) 2009-2012</li><li>- Master of Soil Science – University of Buenos Aires (Argentina), High Honors 2006-2009</li><li>- Agronomic Engineer – University of Buenos Aires (Argentina), High Honors 2001-2005</li><li>➤ Purdue University- West Lafayette, Indiana- USA</li></ul>
<b>Employment</b>	<ul style="list-style-type: none"><li>- Professor, – Farming Systems, Department of Agronomy 2013-2021</li><li>- Prepared and published investigations/ Analyzed data/ Prepared Presentations</li><li>➤ International Plant Nutrition Institute</li><li>Latin America Southern Cone Program- Buenos Aires- Argentina</li><li><i>Assistant Agronomist of Dr. Fernando García</i> (Director of IPNI Southern Cone) 2006-2009</li><li>- Collaborated in website development and upgrade (<a href="http://www.ipni.net">www.ipni.net</a>),</li><li>- Edited quarterly magazine: “<i>Informaciones Agronómicas del Cono Sur</i>”,</li><li>- Collected, analyzed, prepared and published fertilization, nutrition and soil management scientific papers,</li><li>- Organized and coordinated the 2007 and 2009 IPNI-Soil Fertility Symposiums.</li><li>➤ Argentine Association Regional Consortiums for Agricultural Experimentation Buenos Aires, Argentina</li><li><i>Assistant Agronomist of Dr. Emilio Satorre</i> (Head of Crop Science Department) 2005-2006</li><li>- Collected, analyzed, prepared and published crop management papers,</li><li>- Participated in development of a wheat simulation model, named “Triguero”.</li></ul>
<b>Teaching</b>	<ul style="list-style-type: none"><li>- Crop Ecology, Spring (one lecture in Nitrogen use efficiency, NUE) 2019-2021</li><li>- AGRON 655 Precision Ag, (three-to-four lectures/year) 2019-2021</li><li>- AGRON 602 Capstone, (lecture on-farm research) 2019-2021</li><li>- AGRON 640 Cropping Systems Fall 2017, 2018 2017-2018</li><li>- Invited speaker, grad course “Cropping Systems Research”, Purdue University 2012</li><li>- TA, “Hands-on Training in Modern Data Analysis with SAS” at ASA Meeting 2011</li><li>- Soil Science Teacher’s Assistant (University of Buenos Aires, UBA). 2002-2009</li><li>- Participation in the Course “Introduction to Soil Science Research”, at the University of Buenos Aires Graduate School (MS and PhD level) 2005-2006</li></ul>
<b>Awards and Scholarship</b>	<ul style="list-style-type: none"><li>- Sigma Xi Outstanding K-State Scientist Award 2021</li><li>- 2020 Crop Science Journal Outstanding Associate Editor 2021</li><li>- Agronomic Education &amp; Extension Award, American Society of Agronomy (ASA) 2020</li><li>- Excellence in Research Award – Gamma Sigma Delta 2019</li><li>- Crop Science Society of America (CSSA), Extension and Educator Award 2019</li><li>- “Professor of the Week”, academic year, Kansas State University 2019</li><li>- Crop Science Society of America (CSSA), Young Crop Scientist Award 2018</li><li>- American Society of Agronomy (ASA), Early Career Award 2018</li><li>- Outstanding State Extension Professional –KSRE 2018</li><li>- Communicator of the Year, Kansas ACE Chapter, Dpt. of Communications 2018</li><li>- Excellence in Extension Award – Gamma Sigma Delta 2017</li><li>- Land O’ Lakes Global Food Challenge Faculty Advisor 2016</li><li>- Early Career Service Award – Epsilon Sigma Phi Alpha Rho Chapter 2016</li><li>- Early Career Award – Gamma Sigma Delta. 2015</li><li>- Marschner Young Scientist Award. 2013</li><li>- Gamma Sigma Delta Graduate/Profession Award. 2012</li><li>- M.O. Pence Memorial Scholarship. 2012</li></ul>

- Gerald O. Mott Award Recipient from Purdue University. 2012
- Bilsland Dissertation Fellowship Award. Purdue University. 2012
- Purdue Student Government (PSG) Travel Grant. Purdue University. 2011
- Marvin and Barbara Phillips Memorial Graduate Scholarship. Purdue University. 2011
- Outstanding Ph.D. Student in Research Award. Purdue University. 2011
- George D. Scarseth Scholarship. Purdue University Recipient. 2010
- Graduate Award of North-Central Extension-Industry Soil Fertility Conference. 2010
- International Plant Nutrition Institute (IPNI) – International Scholar Award 2010
- High Honors Class 2006 (2<sup>nd</sup>, 206 students), University of Buenos Aires (UBA). 2007
- Annual Agronomic Excellence Award. Dow Agro Sciences- BS Thesis, UBA. 2006
- First place- Young Researcher's Congress. AUGM B.S. thesis work. 2005
- Incentive Scholarship (one year duration). Granted by UBA. 2004

#### Associate Editor and Reviewer

- Editorial Board Member, Forecasting J. MDPI (2020-present)
- Editorial Board Member, European J of Agronomy (2019-present)
- Editorial Board Member, Field Crops Research J (2018-present)
- Editorial Board Member, Remote Sensing MDPI (2018-present)
- Reviewer Editor for Frontiers in Plant Sciences Journal (2016-present)
- Editor of Special Issue on Nitrogen in Crops, Plants Journal MDPI (2020-2021)
- Editor for Special Issue on Cropland Monitoring Based on Remote Sensing Imagery, Remote Sensing MDPI (2021-)
- Associate Editor for Crop Science Journal (2015-2020) - Crop Science
- Associate Editor for Agronomy Journal (2013-2015) – Agronomy
- Manuscript Reviewer for Crop Science, Agronomy Journal, Field Crops Research Journal, Agriculture, Ecosystems and Environment, Plant and Soil Journal, PLOS ONE (open-access) Journal, Nature Sci Reports and Communications

#### Professional Society Membership

- American Association for the Advancement of Science (AAAS) 2019
- Epsilon Sigma Phi Alpha Rho Chapter 2016
- Sigma Xi "The Scientific Research Society" 2015
- Council for Agricultural Science and Technology, 2014 to the present 2014
- Active member of regional committee NCERA-180 (Precision Agriculture Technologies for Food, Fiber, and Energy Production) 2014
- International Precision Ag Association 2013
- International Precision Ag Association 2012
- Gamma Sigma Delta 2007
- Crop, Soil Science & Agronomy Societies of America (CSSA, SSSA & ASA) 2005
- Argentinean Association of Soil Science (AACCS)

#### Skills

Fluent in Spanish.  
 GIS: ArcView. Graph Pad Software. Sigma Plot.  
 STAT models: SAS V8 System; Statistix 8; Infostat, SPSS, Table Curve; R Program.  
 Modeling: CERES Model (DSSAT), APSIM, DSSAT, Hybrid Maize, CropSyst.

#### Special Appointments to Scientific Advisory Councils:

*Pioneer-DuPont Drought Research Advisory Council - Expert Panel (2018-present, 4 years)*

#### Professional Contributions

Publications in peer reviewed journals (+125 total):

1. Pott, L.P., T.J.C. Amado, R.A. Schwalbert, G.M. Corassa, and I.A. Ciampitti. 2021. Satellite-based data fusion for crop type classification and mapping in Rio Grande do Sul, Brazil. Photogrammetry and Remote Sensing J. (in press).
2. Zhao, S., S. Qiu, X. Xu, P. He, and I.A. Ciampitti. 2021. Dynamic of fungal community composition during maize residue decomposition process in north-central China. Applied Soil Ecology (in press).
3. Borja Reis, A.F., L.H. Moro Rosso, D. Davidson, P. Kovacs, L.C. Purcell, F.E. Below, S.N. Casteel, C. Knott, H. Kandel, S. Naeve, W. Carciocchi, W.J. Ross, V. Rampazzo Favoretto, S. Archontoulis, and I.A. Ciampitti. 2021.

- Sulfur fertilization in soybean: A meta-analysis on yield and seed composition. *Eur. J. Agron.* 127, <https://doi.org/10.1016/j.eja.2021.126285>
4. Salvagiotti, F., L. Magnano, O. Ortez, J. Enrico, M. Barraco, P. Barbagelata, A. Condori, G. Di Mauro, A. Manila, J. Rotundo, F.O. Garcia, M. Ferrari, V. Gudelj, and I.A. Ciampitti. 2021. Estimating nitrogen, phosphorus, potassium, and sulfur uptake and requirement in soybean. *Eur. J. Agron.* 127, <https://doi.org/10.1016/j.eja.2021.126289>
5. Ciampitti, I., Fernandez, J., Tamagno, S., Zhao, B., Lemaire, G., Makowski, D., 2021. Does the critical N dilution curve for maize crop vary across genotype x environment x management scenarios? - A Bayesian analysis. *Eur. J. Agron.* 126248
6. Pott, L.P., T.J.C. Amado, R.A. Schwalbert, F.H. Gebert, G.B. Reimche, L.Z. Pes, and I.A. Ciampitti. 2021. Effect of hairy vetch cover crop on maize nitrogen supply and productivity at varying yield environments in Southern Brazil. *Science of The Total Environment* 759, 144313.
7. Alves, L.A., V.G. Ambrosini, L.G. de Oliveira Denardin, J.P.M. Flores, A.P. Martins, D. Filippi, C. Bremm, P.C. de Faccio Carvalho, G.D. Farias, I.A. Ciampitti, T. Tiecher. 2021. Biological N<sub>2</sub> fixation by soybeans grown with or without liming on acid soils in a no-till integrated crop-livestock system. *Soil and Tillage Research*, 209, 104923, <https://doi.org/10.1016/j.still.2020.104923>.
8. Secchi, M.A., L.M. Bastos, M.J. Stamm, Y. Wright, C. Foster, C.D. Messina, and I.A. Ciampitti. 2021. Winter survival response of canola to meteorological variables and adaptive areas for current canola germplasm in the United States. *Agricultural and Forest Meteorology* 297, 108267.
9. Hein, N.T., I.A. Ciampitti, and S.V. Krishna Jagadish. 2021. Bottlenecks and opportunities in field-based high-throughput phenotyping for heat and drought stress. *J. Exp. Bot.* erab021, <https://doi.org/10.1093/jxb/erab021>
10. Badua, S.A., A. Sharda, R. Strasser, and I.A. Ciampitti. 2021. Ground speed and planter downforce influence on corn seed spacing and depth. *Precision Agriculture*. <https://doi.org/10.1007/s11119-020-09775-7>
11. Barnhart, I., S. Chaudhari, Balaji A.A. Pandian, P.V. Vara Prasad, I.A. Ciampitti, and M. Jugulam. 2021. Use of high-resolution unmanned aerial systems imagery and machine learning to evaluate grain sorghum tolerance to mesotrione," *Journal of Applied Remote Sensing* 15(1), 014516 (6 March 2021). <https://doi.org/10.1117/1.JRS.15.014516>
12. Araya, A., Gowda, P.H., Rad, M.R., Ariyaratne, C.B., Rice, C.W., Ciampitti, I.A., Prasad, P.V.V., 2021. Evaluating optimal irrigation for potential yield and economic performance of major crops in southern Kansas. *Agricultural Water Management* 246, 106536.
13. Araya, A., Prasad, P.V.V., Ciampitti, I.A., Jha, P.K., 2021. Using crop simulation model to evaluate influence of water management practices and multiple cropping systems on crop yields: a case study for Ethiopian highlands. *Field Crops Research* 260, 108004.
14. Araya, A., Prasad, P.V.V., Gowda, P.H., Sharda, V., Rice, C.W., Ciampitti, I.A., 2021. Evaluating optimal irrigation strategies for maize in Western Kansas. *Agricultural Water Management* 246, 106677.
15. Correndo, A.A., J.L. Rotundo, N. Tremblay, S. Archontoulis, J.A. Coulter, D. Ruiz-Diaz, D. Franzen, A.J. Franzluebbers, E. Nafziger, R. Schwalbert, K. Steinke, J. Williams, C.D. Messina, and I.A. Ciampitti. 2021. Assessing the uncertainty of maize yield without nitrogen fertilization, *Field Crops Research*, 260, 107985, <https://doi.org/10.1016/j.fcr.2020.107985>.
16. Moro Rosso, L.H., S. Tamagno, A.L. da Silva, A.R. Torres, R.A. Schwalbert, I.A. Ciampitti. 2021. Relative abundance of ureides differs among plant fractions in soybean. *Europ. J. Agron.* 122: European Journal of Agronomy, 126175, ISSN 1161-0301.
17. Rogers, A.R. et al., I.A. Ciampitti, N. De Leon, and J.B. Holland. 2021. The importance of dominance and genotype-by-environment interactions on grain yield variation in a large-scale public cooperative maize experiment, *G3 Genes/Genomes/Genetics*, 11, jkaa050, <https://doi.org/10.1093/g3journal/jkaa050>
18. de Borja Reis, A.F., Tamagno, S., Moro Rosso, L.H., I.A. Ciampitti. 2020. Historical trend on seed amino acid concentration does not follow protein changes in soybeans. *Sci Rep* 10, 17707. <https://doi.org/10.1038/s41598-020-74734-1>
19. Lemaire, G., Ciampitti, I., 2020. Crop mass and N status as prerequisite covariables for unraveling nitrogen use efficiency across genotype-by-environment-by-management scenarios: a review. *Plants* 9, 1309. <https://doi.org/10.3390/plants9101309>.
20. Kunrath, T.R., G. Lemaire, E. Texeira, H.E. Brown, I.A. Ciampitti, V.O. Sadras. 2020. Allometric relationships between nitrogen uptake and transpiration to untangle interactions between nitrogen supply and drought in maize and sorghum. *European Journal of Agronomy* 120, 126145. <https://doi.org/10.1016/j.eja.2020.126145>
21. Fernández, J., C.D. Messina, J. Rotundo, and I.A. Ciampitti. 2020. Integrating Nitrogen and Water-Soluble Carbohydrates Dynamics in Maize: A Comparison between Hybrids from Different Decade. *Crop Sci.* (in press)
22. Lacasa, J., A. Gaspar, M. Hinds, S.J. Don, D. Berning, and I.A. Ciampitti. 2020. Bayesian approach for maize yield response to plant density from both agronomic and economic viewpoints in North America. *Scientific Reports*. (in press)
23. Denardin, L.G., A.P. Martins, L.M. Bastos, I.A. Ciampitti, I. Anghinoni, F.G. Moojen, P.C. de F. Carvalho, M. Huang, and A. Chabbi. 2020. Integrating livestock and soybean in no-till rice paddy fields improves soil fertility and decreases yield reliance on mineral fertilizer. *Agronomy*, MDPI.

24. Sunoj, V.S., P.V. Prasad, I.A. Ciampitti, and H.F. Maswada 2020. Narrowing diurnal temperature amplitude alters carbon tradeoff and reduces growth in C4 crop sorghum. *Frontiers in Plant Science*. doi: 10.3389/fpls.2020.01262
25. Parco, M., I.A. Ciampitti, K.E. D'Andrea, G.A. Maddonni. 2020. Prolificacy and nitrogen internal efficiency in maize crops. *Field Crops Res.* 256, 107912. <https://doi.org/10.1016/j.fcr.2020.107912>
- Kunrath, T.R., G. Lemaire, E. Texeira, H.E. Brown, I.A. Ciampitti, V.O. Sadras. 2020. Allometric relationships between nitrogen uptake and transpiration to untangle interactions between nitrogen supply and drought in maize and sorghum. *European Journal of Agronomy* 120, 126145. <https://doi.org/10.1016/j.eja.2020.126145>
26. McFarland, B.A., AlKhalifah, N., I.A. Ciampitti, et al. Maize genomes to fields (G2F): 2014–2017 field seasons: genotype, phenotype, climatic, soil, and inbred ear image datasets. *BMC Res Notes* 13, 71 (2020). <https://doi.org/10.1186/s13104-020-4922-8>
27. de Oliveira, S.M., I.A. Ciampitti, R.E.M. de Almeida, C.P. Junior, P.C.O. Trivelin, J.L. Favarin. 2020. Closing the nitrogen budget of intercropped maize and palisadegrass. *European Journal of Agronomy*, 119, 126093.
28. Matcham, E.G., S. Mourtzinis, S.P. Conley, I.A. Ciampitti, et al. 2020. Management strategies for early- and late-planted soybean in the north-central United States. *Agronomy Journal*. 2020; 112: 2928– 2943.
29. Zhao, S., Xu, X., Wei, D., I.A. Ciampitti, et al. 2020. Soybean yield, nutrient uptake and stoichiometry under different climate regions of northeast China. *Sci Rep* 10, 8431. <https://doi.org/10.1038/s41598-020-65447-6>
30. Carciochi, W.D., F. Salvagiotti, A. Pagani, N.I. Reussi Calvo, M. Eyherabide, H.R. Sainz Rozas, I.A. Ciampitti. 2020. Nitrogen and sulfur interaction on nutrient use efficiencies and diagnostic tools in maize. *Europ. J. Agron.* 116, 126045.
31. Gaspar AP, Mourtzinis S, Kyle D, I.A. Ciampitti, et al. 2020. Defining optimal soybean seeding rates and associated risk across North America. *Agronomy Journal*. 2020;112:2103–2114. <https://doi.org/10.1002/ajq2.20203>
32. Stamenković, O.S., K. Siliveru, V.B.Veljković, I.B. Banković-Ilić, M.B.Tasić, I.A. Ciampitti, I.G. Đalović, P.M. Mitrović, V.Š. Sikora, P.V. Vara Prasad. 2020. Production of biofuels from sorghum. *Renewable and Sustainable Energy Reviews* 124, 109769.
33. Araya, A. P.V.V. Prasad, Z. Zambreski, P.H. Gowda, I.A. Ciampitti, Y. Assefa, A. Girma. 2020. Spatial analysis of the impact of climate change factors and adaptation strategies on productivity of wheat in Ethiopia. *Science of the Total Environment* 731, 139094. <https://doi.org/10.1016/j.scitotenv.2020.139094>
34. Schwalbert, R., T. Amado, G. Corassa, L.P. Pott, P.V.Vara Prasad, I.A. Ciampitti. 2020. Satellite- soybean yield forecast: Integrating machine learning and weather for improving yield prediction. *Ag. Forest. Meteorol.* 284, 107886. <https://doi.org/10.1016/j.agformet.2019.107886>
35. Nguyen, H.T.T.; Nguyen, L.V.; de Bie, C.K.; Ciampitti, I.A.; Nguyen, D.A.; Nguyen, M.V.; Nieto, L.; Schwalbert, R.; Nguyen, L.V. Mapping Maize Cropping Patterns in Dak Lak, Vietnam Through MODIS EVI Time Series. *Agronomy* 2020, 10, 478.
36. Bastos LM, Carciochi W, Lollato RP, Jaenisch BR, Rezende CR, Schwalbert R, Vara Prasad PV, Zhang G, Fritz AK, Foster C, Wright Y, Young S, Bradley P and Ciampitti IA. 2020. Winter Wheat Yield Response to Plant Density as a Function of Yield Environment and Tillering Potential: A Review and Field Studies. *Front. Plant Sci.* 11:54. doi: 10.3389/fpls.2020.00054
37. De Oliveira Silva, A., I.A. Ciampitti, G.A. Slafer, R.P. Lollato. 2020. Nitrogen utilization efficiency in wheat: A global perspective. *Europ. J. Agron.* 114, 126008. <https://doi.org/10.1016/j.eja.2020.126008>
38. Tamagno, S., Aznar-Moreno, A. J., Durrett, P. T., Prasad, P. V. V., Rotundo, J. L., and Ciampitti, I. O. 2020. Dynamics of oil and fatty acid accumulation during seed development in historical soybean varieties. *Field Crops Res.* 248:107719. doi: 10.1016/j.fcr.2020.107719
39. Tamagno, S., V.O. Sadras, O.A. Ortez, and I.A. Ciampitti. 2020. Allometric analysis reveals enhanced reproductive allocation in historical set of soybean varieties. *Field Crops* 248, 107717.
40. Schwalbert R, Amado T, Nieto L, et al., I.A. Ciampitti. 2020. Mid-season county-level corn yield forecast for US Corn Belt integrating satellite imagery and weather variables. *Crop Science*. 2020;60:739–750. <https://doi.org/10.1002/csc2.20053>
41. Carciochi, W.D., V.O. Sadras, A. Pagani, I.A. Ciampitti. 2020. Co-limitation and stoichiometry capture the interacting effects of nitrogen and sulfur on maize yield and nutrient use efficiency. *Europ. J. Agron.* 125973. <https://doi.org/10.1016/j.eja.2019.125973>
42. Maeoka RE, Sadras VO, Ciampitti IA, Diaz DR, Fritz AK and Lollato RP. 2020. Changes in the Phenotype of Winter Wheat Varieties Released Between 1920 and 2016 in Response to In-Furrow Fertilizer: Biomass Allocation, Yield, and Grain Protein Concentration. *Front. Plant Sci.* 10:1786. doi: 10.3389/fpls.2019.01786
43. Torres, A.R., Brito, B., Imperial, J., I.A. Ciampitti, et al. 2020. Hydrogen-uptake genes improve symbiotic efficiency in common beans (*Phaseolus vulgaris* L.). *Antonie van Leeuwenhoek* 113, 687–696 (2020). <https://doi.org/10.1007/s10482-019-01381-6>
44. Pitumpe Arachchige PS, Rosso LHM, Hansel FD, I.A. Ciampitti, et al., K. Jagadish. 2020. Temporal biological nitrogen fixation pattern in soybean inoculated with *Bradyrhizobium*. *Agrosyst Geosci Environ.* . <https://doi.org/10.1002/agg2.20079>

45. Appelhans SC, Carciochi WD, Correndo A, et al., I.A. Ciampitti. 2020. Predicting soil test phosphorus decrease in non-P-fertilized conditions. *Eur J Soil Sci.* 2020;1–11. <https://doi.org/10.1111/ejss.12946>
46. Falcon CM, Kaeppler SM, Spalding EP, I.A. Ciampitti, et al. 2020. Relative utility of agronomic, phenological, and morphological traits for assessing genotype-by-environment interaction in maize inbreds. *Crop Science* 60:62–81.
47. Balboa, G.R., Ciampitti, I.A. 2020. Estimating biological nitrogen fixation in field-grown soybeans: impact of B value. *Plant Soil* 446, 195–210.
48. Carciochi, W.D., Rosso, L.H.M., Secchi, M.A. et al., I.A. Ciampitti. 2019. Soybean yield, biological N<sub>2</sub> fixation and seed composition responses to additional inoculation in the United States. *Sci Rep* 9, 19908. doi:10.1038/s41598-019-56465-0
49. Walter D. Carciochi, Victor O. Sadras, Agustín Pagani, Ignacio A. Ciampitti. 2020. Co-limitation and stoichiometry capture the interacting effects of nitrogen and sulfur on maize yield and nutrient use efficiency. *European Journal of Agronomy.* <https://doi.org/10.1016/j.eja.2019.125973>.
50. Ambrosini, V. G., S. M. Vieira Fontoura, R. Paulo de Moraes, W. Carciochi, I. A. Ciampitti, and C. Bayer. 2019. Assessing Nitrogen Limitation in Inoculated Soybean in Southern Brazil. *Agrosystems, Geosciences & Environment* 2:190016. doi:10.2134/age2019.03.0016
51. Pott, L.P., Telmo JC Amado Raí A Schwalbert Elodio Sebem Mithila Jugulam Ignacio A Ciampitti. 2019. Pre-planting weed detection based on ground field spectral data. *Pest Management Science.* <https://doi.org/10.1002/ps.5630>
52. Pott, L.P., T.J.C. Amado, O.A. Leal, and I.A. Ciampitti. 2019. Mitigation of soil compaction for boosting crop productivity at varying yield environments in southern Brazil. *European Journal of Soil Science.* DOI: 10.1111/ejss.12880
53. Vítor G. Ambrosini, Sandra M. V. Fontoura, Renato P. de Moraes, Santiago Tamagno, Ignacio A. Ciampitti & Cimélio Bayer (2019) Soybean yield response to Bradyrhizobium strains in fields with inoculation history in Southern Brazil, *Journal of Plant Nutrition*, 42:16, 1941-1951, DOI: 10.1080/01904167.2019.1648680
54. Javier A. Fernández, Jason DeBruin, Carlos D. Messina, Ignacio A. Ciampitti,
55. Late-season nitrogen fertilization on maize yield: A meta-analysis. 2019. *Field Crops Research*, <https://doi.org/10.1016/j.fcr.2019.107586>.
56. Osorio, R.J., C.J. Barden, and I.A. Ciampitti. 2019. GIS approach to estimate windbreak crop yield effects in Kansas-Nebraska. *Agroforestry Systems* 93:1567-1576.
57. Balboa, G.R., S.V. Archontoulis, F. Salvagiotti, F.O. Garcia, W.M. Stewart, E. Francisco, P.V.V. Prasad, and I.A. Ciampitti. 2019. A systems-level yield gap assessment of maize–soybean rotation under high- and low-management inputs in the Western US Corn Belt using APSIM. *Agric. Syst.* 174:145– 154. doi:10.1016/j.agsy.2019.04.008
58. Miller, N.J., T.W. Griffin, I.A. Ciampitti, and A. Sharda. 2019. Farm adoption of embodied knowledge and information intensive precision agriculture technology bundles. *Precision agriculture* 20 (2), 348-361.
59. Zhao, S., S. Qiu, X. Xu, I.A. Ciampitti, S. Zhang, P. He. 2019. Change in straw decomposition rate and soil microbial community composition after straw addition in different long-term fertilization soils. *Applied Soil Ecology*, 138, 123-133.
60. Carciochi, W. D., R. Schwalbert, F. H. Andrade, G. M. Corassa, P. Carter, A. P. Gaspar, J. Schmidt, and I. A. Ciampitti. 2019. Soybean Seed Yield Response to Plant Density by Yield Environment in North America. *Agron. J.* 111:1923-1932. doi:10.2134/agronj2018.10.0635
61. Obeng, E., A.K. Obour, N.O. Nelson, J.A. Moreno, I.A. Ciampitti, D. Wang, and T.P. Durrett (2019) Seed yield and oil quality as affected by Camelina cultivar and planting date, *Journal of Crop Improvement*, 33:2, 202-222, DOI: 10.1080/15427528.2019.1566186
62. Gaffney, J., et al., Ciampitti, I.A., 2019a. Science-based intensive agriculture: Sustainability, food security, and the role of technology. *Global Food Security.* 23, 236-244.
63. Ortez, O.A., S. Tamagno, F. Salvagiotti, P.V.V. Prasad, and I.A. Ciampitti. 2019. Soybean Nitrogen Sources and Demand During the Seed-Filling Period. *Agron. J.* 111:1779-1787. doi:10.2134/agronj2018.10.0656
64. Araya, A., P.H. Gowda, B. Golden, A.J. Foster, J. Aguilar, R. Currie, I.A. Ciampitti, and P.V.V. Prasad, 2019. Economic value and water productivity of major irrigated crops in the Ogallala aquifer region. *Agricultural Water Management*, 214, 55–63. <https://doi.org/10.1016/J.AGWAT.2018.11.015>
65. Assefa, Y.; Bajjalieh, N.; Archontoulis, S.; Casteel, S.; Davidson, D.; Kovács, P.; Naeve, S.; Ciampitti, I.A. Spatial characterization of soybean yield and quality (amino acids, oil, and protein) for United States. *Sci. Rep.* 2018, 8, 14653
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- Editor of the Soybean Crop Management Handbook. 2009. Preparation and publication of five chapters of this book (from growth and development, management, plant nutrition, diseases, weeds, and translation of the “Be Your Own Soybean Doctor”). <http://www.ipni.net/lasc>. Published by IPNI in Argentina (In Spanish).
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**Extension Activities (+50 publications since 2014)**

1. Ciampitti, I.A., J. Lacasa, L. Nieto, and D. Fjell. 2020. Kansas corn yield contest. MF3463. September 2020.
2. Ciampitti, I.A., S. Lancaster, D. Ruiz Diaz, J. Aguilar, A. Sharda, D. Jardine and S. Zukoff. 2020. Kansas Corn Management 2020. MF3208 (Rev.).
3. Ciampitti, I.A., D. Ruiz Diaz, D. Jardine, S. Lancaster, J. Whitworth, and J. Aguilar. 2020. Kansas Sorghum Management 2020. MF3046 (Rev.).
4. Ciampitti, I.A., D. Ruiz Diaz, D. Jardine, S. Lancaster, J. Whitworth, J. Aguilar, and S. Duncan. 2020. Kansas Soybean Management 2020. MF3154 (Rev.).
5. Badua, S., A. Sharda, K. Cockerline, J.V. Fabula, and I.A. Ciampitti. Soy-protein: an environment-friendly lubricant for pneumatic row crop planters. MF3471. November 2019.
6. Ciampitti, I.A., and S. Tamagno. Biological nitrogen fixation and soybean productivity in the Midwest. MF3462. October 2019.
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14. Foster, A.J., S. Duncan, I.A. Ciampitti, L. Haag, A. Schlegel, and R. Currie. 2018. Narrow-row grain sorghum production in Kansas. MF2388.
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18. Ciampitti, I.A., D. Ruiz Diaz, D. Jardine, D. Peterson, J. Whitworth, and D. Rogers. 2018. Kansas Soybean Management 2018. MF3154 (Rev.).
19. Contributor to the Great Plains Canola Handbook, MF2734 (editor M. Stamm). 2018.
20. Contributor to Kansas Performance Tests with Corn (SRP1145), Grain Sorghum (SRP1154) Hybrids, and with Soybean Varieties (SRP1153).
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**Conferences, Workshops and Research Collaboration (from 2009-present):**

- More than 50 articles published in technical bulletins of national and regional magazines and newspapers.
- More than 50 abstracts published as International Conference Proceedings (see appendix).
- Several presentations to farmers, extension and research meetings in USA/Argentina (ASA-CSSA-SSSAJ International Annual Meetings, Purdue University, Dow Workshops, Plant Breeding Journal Club, Partnership for Research & Education in Plant Breeding and Genetics at Purdue University (AFRI) Advisory Council Meeting, ASA North Central Branch Meeting, among others). (see appendix)
- Invited speaker to the Plant Nutrition Latin America Congress sponsored by IPNI, Argentina 2009.

**2013-until present (2021)**

Total Grants: As a PI or collaborative investigator ~\$25 million (~\$8 million allocated to my program).