

# Jawoo Koo

- Senior Research Fellow, Agrifood Innovation and Resilience Unit
- Interim Deputy Director, CGIAR Accelerator on Digital Transformation
- Lead, Action Lab (Area of Work 2), CGIAR Accelerator on Digital Transformation

## International Food Policy Research Institute (IFPRI)

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## HIGHLIGHTS

- **Managerial experience**
  - Manages 7 bilateral projects funded by Gates Foundation, FCDO, Google.org, and the South Korean Government
  - Co-leads CGIAR Accelerator on Digital Transformation as the Interim Deputy Director (2025-June 2026) and leads Area of Work 2: Action Lab (2025-current)
  - Coordinates CGIAR's contribution to the development of AgriLLM, an agriculture-focused AI model developed by UAE's AI71
  - Led CGIAR Initiative on Digital Innovation (2022-2024)
  - Co-founded CGIAR Platform for Big Data in Agriculture (2017-2021)
  - Led the HarvestChoice: Phase II (2013-2016)
- **Publication** | Co-authored 33 peer-reviewed journal articles, 22 book chapters, 6 reports, 49 non-peer-reviewed publications, and 18 datasets, collectively cited more than 8,620 times (h-index: 37)<sup>1</sup>.
- **Education** | Received M.S. and Ph.D. degrees at the Agricultural and Biological Engineering Department, University of Florida. Graduate research focused on estimating soil carbon sequestration potential in low-input farming systems in Ghana using crop modeling and data assimilation with satellite remote sensing.
- **Technical skills** | More than 20 years of experience simulating agriculture and natural resource management using the DSSAT (Decision Support System for Agrotechnology Transfer) Cropping System Model. Co-implemented DSSAT on high-performance computers at IFPRI and helped CGIAR researchers to run grid-based crop modeling analyses in regional and global-scale studies. Uses remote sensing, historical weather, climate projections, and other socioeconomic data to characterize food production systems and parameterize models.

## EDUCATION

- **Ph.D. (2007), Agricultural & Biological Engineering**, University of Florida, Gainesville, Florida.  
Dissertation Title: Estimating Soil Carbon Sequestration in Ghana
- **M.S. (2002), Agricultural & Biological Engineering**, University of Florida, Gainesville, Florida.  
Thesis Title: The Impact of Climate Variability on Tomato Disease Management and Production
- **B.A. (1998), Agricultural Biology – Plant Pathology & Entomology**, Korea University, Seoul, South Korea

## PUBLICATIONS

### Peer-Reviewed

#### *Journal articles*

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<sup>1</sup> Google Scholar profile at <https://scholar.google.com/citations?user=kOqZxxcAAAAJ&hl=en>

1. Paris, C., de By, R.A., Ohuru, R., Furkan C. M, Ellsäßer, F.J., Tseng, G., Zhang, Y., Mananze, S.E., Manuel, L., Koo, J., Nelson, A. (2026). Integrating Earth Observation and Digital Tools for Agricultural Mapping and Monitoring: the Mozambique case study. <https://doi.org/10.1109/JSTARS.2026.3698556>.
2. Keenan, M., Karachiwalla, N., Koo, J., Mwangi, C., Breisinger, C., & Kim, M. (2026). Man vs. machine: Multi-country experimental evidence on the quality and perceptions of AI-generated research blog content. *PLOS One*, 21(3). <https://doi.org/10.1371/journal.pone.0342852>
3. Jones-Garcia, E., Singaraju, N., Davis, K., & Koo, J. (2026). Asking the right question: Toward a research agenda for responsible GAI in agricultural extension. *Advancements in Agricultural Development*, 7(2), 35–49. <https://doi.org/10.37433/aad.v7i2.633>
4. Murgatroyd, Anna; Thomas, Timothy S.; Koo, Jawoo; Strzepek, Kenneth M.; and Hall, Jim. 2025. Building Ethiopia's food security resilience to climate and hydrological change. *Environmental Research: Food Systems* 2(1): 015008. <https://doi.org/10.1088/2976-601X/ad99dd>
5. Lecoutere, E., Mishra, A., Singaraju, N., Koo, J., Azzarri, C., Chanana, N., Nico, G., and Puskur, R. "Where women in agri-food systems are at highest climate risk: A methodology for mapping climate-agriculture-gender inequality hotspots." *Frontiers in Sustainable Food Systems* 7 (2023): 1197809. <https://doi.org/10.3389/fsufs.2023.1197809>
6. Tzachor, A., Devare, M., Richards, C., Pypers, P., Ghosh, A., Koo, J., Johal, S., and King, B. Large language models and agricultural extension services. *Nat Food* 4, 941–948 (2023). <https://doi.org/10.1038/s43016-023-00867-x>
7. Pastor-Escuredo, David; Gardezabal, Andrea; Koo, Jawoo; Imai, Asuka; and Treleaven, Philip. 2022. Multi-scale governance and data for sustainable development. *Frontiers in Big Data* 5: 1025256. <https://doi.org/10.3389/fdata.2022.1025256>
8. Koo, J, Mamun, A, Martin, W. From bad to worse: Poverty impacts of food availability responses to weather shocks. *Agricultural Economics*. 2021; 1– 15. <https://doi.org/10.1111/agec.12657>
9. Komarek, A.M., Rahman, N.A., Bandyopadhyay, A., Kizito, F., Koo, J. and Addah, W., 2021. Trade-offs and synergies associated with maize leaf stripping within crop-livestock systems in northern Ghana. *Agricultural Systems*, 193, p.103206. <https://doi.org/10.1016/j.agsy.2021.103206>
10. Ramirez-Vallegas, Julian; Milan, Anabel Molero; Alexandrov, Nikolai; Asseng, Senthold; Koo, Jawoo; et al. 2020. CGIAR modeling approaches for resource-constrained scenarios: I. Accelerating crop breeding for a changing climate. *Crop Science* 60(2): 547-567. <https://doi.org/10.1002/csc2.20048>
11. Yang, Meijian; Wang, Guiling; Ahmed, Kazi Farzan; Adugna, Berihun; Eggen, Michael; Atsbeha, Ezana; You, Liangzhi; Koo, Jawoo; and Anagnostou, Emmanouil. 2020. The role of climate in the trend and variability of Ethiopia's cereal crop yields. *Science of The Total Environment* 723(June 2020): 137893. <https://doi.org/10.1016/j.scitotenv.2020.137893>
12. De Pinto, Alessandro; Cenacchi, Nicola; Kwon, Ho Young; Koo, Jawoo; and Dunston, Shahnila. 2020. Climate smart agriculture and global food-crop production. *PLoS ONE* 15(4): e0231764. <https://doi.org/10.1371/journal.pone.0231764>
13. De Pinto, A., Cenacchi, N., Robertson, R., Kwon, H.Y., Thomas, T., Koo, J., Begeladze, S. and Kumar, C., 2020. The role of crop production in the forest landscape restoration approach—Assessing the potential benefits of meeting the Bonn Challenge. *Frontiers in Sustainable Food Systems*, 4. <https://doi.org/10.3389/fsufs.2020.00061>
14. Nelson, Andy; Weiss, Daniel J.; van Etten, Jacob; Cattaneo, Andrea; McMenemy, Theresa S.; and Koo, Jawoo. 2019. A suite of global accessibility indicators. *Scientific Data* 6: 266. <https://doi.org/10.1038/s41597-019-0265-5>
15. Komarek, AM, Thurlow, J, Koo, J, De Pinto, A. Economywide effects of climate-smart agriculture in Ethiopia. *Agricultural Economics*. 2019; 1– 14. <https://doi.org/10.1111/agec.12523>
16. Han, E., Ines, A., & Koo, J. (2019). Development of a 10-km resolution global soil profile dataset for crop modeling applications. *Environmental modelling & software*, 119, 70–83. <https://doi.org/10.1016/j.envsoft.2019.05.012>
17. Reynolds, M., Kropff, M., Crossa, J., Koo, J., Kruseman, G., Molero Milan, A., Rutkoski, J., Schulthess, U., Sonder, K., Tonnang, H. and Vadez, V., 2018. Role of modelling in international crop research: overview and some case studies. *Agronomy*, 8(12), p.291. <https://doi.org/10.3390/agronomy8120291>

18. Hurley, T., Koo, J. and Tesfaye, K., 2018. Weather risk: how does it change the yield benefits of nitrogen fertilizer and improved maize varieties in sub-Saharan Africa?. *Agricultural Economics*, 49(6), pp.711-723. <https://doi.org/10.1111/agec.12454>
19. Komarek, A.M., Koo, J., Wood-Sichra, U. and You, L., 2018. Spatially-explicit effects of seed and fertilizer intensification for maize in Tanzania. *Land use policy*, 78, pp.158-165. <https://doi.org/10.1016/j.landusepol.2018.06.033>
20. Komarek, A.M., Koo, J., Haile, B. et al. Trade-offs and synergies between yield, labor, profit, and risk in Malawian maize-based cropping systems. *Agron. Sustain. Dev.* 38, 32 (2018). <https://doi.org/10.1007/s13593-018-0506-6>
21. Laborte, A., Gutierrez, M., Balanza, J. et al. RiceAtlas, a spatial database of global rice calendars and production. *Sci Data* 4, 170074 (2017). <https://doi.org/10.1038/sdata.2017.74>
22. Savary, S., S. Bregaglio, L. Willocquet, D. Gustafson, D. Mason d’Croz, A. Sparks, N. Castilla, A. Djurle, C. Allinne, M. Sharma, V. Rossi, L. Amorim, A. Bergamin, J. Yuen, P. Esker, N. McRoberts, J. Avelino, E. Duveiller, J. Koo, and K. Garrett. 2017. Crop health and its global impacts on the components of food security. *Food Secur.* 9(2): 311–327 <https://doi.org/10.1007/s12571-017-0659-1>
23. Koo J, Cox CM, Bacou M et al. CELL5M: A geospatial database of agricultural indicators for Africa South of the Sahara [version 1; peer review: 2 approved]. *F1000Research* 2016, 5:2490 <https://doi.org/10.12688/f1000research.9682.1>
24. Azzarri, Carlo; Bacou, Melanie; Cox, Cindy M.; Guo, Zhe; and Koo, Jawoo. 2016. Subnational socioeconomic dataset availability. *Nature Climate Change* 6: 115 - 116. <http://dx.doi.org/10.1038/nclimate2842>
25. Naab, J.B.; Mahama, G.Y.; Koo, Jawoo; Jones, J. W.; and Boote, K. J. 2015. Nitrogen and phosphorus fertilization with crop residue retention enhances crop productivity, soil organic carbon, and total soil nitrogen concentrations in sandy-loam soils in Ghana. *Nutrient Cycling in Agroecosystems* 102(1):33 - 43. <http://dx.doi.org/10.1007/s10705-015-9675-8>
26. Ahmed, Kazi Farzan; Wang, Guiling; Yu, Miao; Koo, Jawoo; and You, Liangzhi. 2015. Potential impact of climate change on cereal crop yield in West Africa. *Climatic Change*. 133(2): 321-334. <http://dx.doi.org/10.1007/s10584-015-1462-7>
27. White, Jeffrey W.; Hunt, L.A.; Boote, Kenneth J.; Jones, James W.; Koo, Jawoo; Kim, Soonho; Porter, Cheryl H.; Wilkens, Paul W.; Hoogenboom, Gerrit. 2013. Integrated description of agricultural field experiments and production: The ICASA Version 2.0 data standards. *Computers and Electronics in Agriculture* 96 (August 2013): 1-12. <http://dx.doi.org/10.1016/j.compag.2013.04.003>
28. Romero, Consuelo C.; Hoogenboom, Gerrit; Baigorria, Guillermo A.; Koo, Jawoo; Gijsman, Arjan J.; and Wood, Stanley. 2012. Reanalysis of a global soil database for crop and environmental modeling. *Environmental Modelling & Software* 35(July 2012): 163-170. <http://dx.doi.org/10.1016/j.envsoft.2012.02.018>
29. Bryan, Elizabeth, Claudia Ringler, Barrack Okoba, Jawoo Koo, Mario Herrero, and Silvia Silvestri. 2012. Can Agriculture Support Climate Change Adaptation, Greenhouse Gas Mitigation and Rural Livelihoods? Insights from Kenya. *Climatic Change* 118 (2): 151–65. <https://doi.org/10.1007/s10584-012-0640-0>
30. P.C.S. Traore, W.M. Bostick, J.W. Jones, J. Koo, K. Goita, and B.V. Bado. 2008. A Simple Soil Organic Matter Model for Biomass Data Assimilation in Community-Level Carbon Contracts. *Ecological Applications* 18:624-636. <https://doi.org/10.1890/07-1133.1>
31. Gonzalez-Estrada, E., L.C. Rodriguez, V.K. Walen, J.B. Naab, J. Koo, J.W. Jones, M. Herrero, and P.K. Thornton. 2008. Carbon Sequestration and Farm Income in West Africa: Identifying Best Manage Practices for Smallholder Agricultural Systems in Northern Ghana. *Ecological Economics*. Volume 67, Issue 3, 15 October 2008, Pages 492-502 <https://doi.org/10.1016/j.ecolecon.2008.01.002>
32. Koo, J., W.M. Bostick, J.B. Naab, J.W. Jones, W.D. Graham, and A.J. Gijsman. 2007. Estimating Soil Carbon in Agricultural Systems using Ensemble Kalman Filter And DSSAT-CENTURY. *Transactions of ASABE*. 50:1851-1865. <https://doi.org/10.13031/2013.23937>
33. Jones, J.W., Koo, J., Naab, J.B., Bostick, W.M., Traore, S. and Graham, W.D., 2007. Integrating stochastic models and in situ sampling for monitoring soil carbon sequestration. *Agricultural systems*, 94(1), pp.52-62. <https://doi.org/10.1016/j.agsy.2005.06.023>

*Book chapters*

1. Koo, Jawoo; and Anderson, Weston. 2025. What do we know about the impacts of the next El Niño on agrifood systems? In *What do we know about the future of food systems?* eds. Keith Wiebe and Elisabetta Gotor. Part One: What Do We Know About the Future of Food Systems Drivers and Impacts? Chapter 15, Pp. 85-90. Washington, DC: International Food Policy Research Institute.  
<https://hdl.handle.net/10568/175408>
2. Davis, Kristin E.; Gandhi, Rikin; Koo, Jawoo; Kramer, Berber; Miller, Alesha; et al. 2025. Agricultural extension services: From transfer of technology to facilitation for innovation. In *Global food policy report 2025: Food policy: Lessons and priorities for a changing world*, eds. Johan Swinnen and Christopher Barrett. Part Three: Supporting Farmers, Chapter 8, Pp. 195-220. Washington, DC: International Food Policy Research Institute. <https://hdl.handle.net/10568/174301>
3. Koo, Jawoo; Kramer, Berber; Langan, Simon; Ghosh, Aniruddha; Monsalve, Andrea Gardezabal; and Luni, Tobias. 2022. Digital innovations: Using data and technology for sustainable food systems. In *2022 Global Food Policy Report: Climate Change and Food Systems*. Chapter 12, Pp. 106-113. Washington, DC: International Food Policy Research Institute (IFPRI). [https://doi.org/10.2499/9780896294257\\_12](https://doi.org/10.2499/9780896294257_12)
4. Nelson A., Weiss D. J., van Etten J., Cattaneo A., McMenomy T. S., Koo J. 2021. "Estimating travel time to urban areas of different population sizes: New indicators of access to the resources and opportunities in urban areas" In *European Commission, Joint Research Centre, Atlas of the Human Planet 2020 – Open geoinformation for research, policy, and action*, EUR 30516, European Commission, Luxembourg, 2020, ISBN 978-92-76-27388-2, <https://doi.org/10.2760/16432>.
5. Biradar, Chandrashekar; Wery, Jacques; Löw, Fabian; El-Shama, Khaled; Singh, Rajkumar; Atassi, Loyal; Koo, Jawoo; et al. 2019. Digital diffusion for inclusive agroecosystems. In *Exploring the Nexus of Geoecology, Geography, Geoarcheology and Geotourism: Advances and Applications for Sustainable Development in Environmental Sciences and Agroforestry Research*, eds. Haroun Chenchouni, Ezzoura Errami, Fernando Rocha, and Luisa Sabato. Part 1: Environmental Assessment and Monitoring of Agrisilvicultural Systems, Chapter 2, Pp. 7-9. Cham, Switzerland: Springer. [https://doi.org/10.1007/978-3-030-01683-8\\_2](https://doi.org/10.1007/978-3-030-01683-8_2)
6. Nkonya, Ephraim M.; Koo, Jawoo; Kato, Edward; and Johnson, Timothy. 2018. Climate risk management through sustainable land and water management in Sub-Saharan Africa. In *Climate-smart agriculture: Building resilience to climate change*, eds. Leslie Lipper, Nancy McCarthy, David Zilberman, Solomon Asfaw, and Giacomo Branca. Part V: Case studies: Farm-level response to improving adaptation and adaptive capacity. Pp 445-476. Food and Agricultural Organization of the United Nations (FAO) and Springer. [https://doi.org/10.1007/978-3-319-61194-5\\_19](https://doi.org/10.1007/978-3-319-61194-5_19) <http://www.fao.org/3/a-i7931e.pdf>
7. Haile, Belyou; Azzarri, Carlo; Koo, Jawoo; and De Pinto, Alessandro. 2017. Trade, climate change, and climate-smart agriculture. In *A thriving agricultural sector in a changing climate: Meeting Malabo Declaration goals through climate-smart agriculture*, eds. Alessandro De Pinto and John M. Ulimwengu. Chapter 5, pp. 54-68. Washington, D.C.: International Food Policy Research Institute (IFPRI). [http://dx.doi.org/10.2499/9780896292949\\_05](http://dx.doi.org/10.2499/9780896292949_05)
8. Nkonya, Ephraim M.; and Koo, Jawoo. 2017. The unholy cross: Profitability and adoption of climate-smart agriculture practices in Africa south of the Sahara. In *A thriving agricultural sector in a changing climate: Meeting Malabo Declaration goals through climate-smart agriculture*, eds. Alessandro De Pinto and John M. Ulimwengu. Chapter 8, pp. 103-113. Washington, D.C.: International Food Policy Research Institute (IFPRI). [http://dx.doi.org/10.2499/9780896292949\\_08](http://dx.doi.org/10.2499/9780896292949_08)
9. Walker, Tom; Ward, Christopher; Torquebiau, Rafael; Xie, Hua; Anderson, Weston; Perez, Nikos; Ringler, Claudia; You, Liangzhi; Cenacchi, Nicola; Hash, Tom; Rattunde, Fred; Weltzien, Eva; Koo, Jawoo; Carfagna, Federica; Cervigni, Raffaello; and Morris, Michael. 2016. Agriculture: More water and better farming for improved food security. In *Confronting Drought in Africa's Drylands: Opportunities for Enhancing Resilience*, eds. Raffaello Cervigni and Michael Morris. Chapter 7. Pp. 115 - 136. Washington, DC: The World Bank. [http://dx.doi.org/10.1596/978-1-4648-0817-3\\_ch7](http://dx.doi.org/10.1596/978-1-4648-0817-3_ch7)
10. Cervigni, Raffaello; Morris, Michael; Carfagna, Federica; Koo, Jawoo; Syroko, Joanna; Guo, Zhe; Xie, Hua; de Brouwer, Balthazaar; and Verbeeten, Elke. 2016. Evaluating options: Assessing the relative merits of

- resilience interventions. In *Confronting Drought in Africa's Drylands: Opportunities for Enhancing Resilience*, eds. Raffaello Cervigni and Michael Morris. Chapter 12, pp. 205 - 220. Washington, DC: The World Bank. [http://dx.doi.org/10.1596/978-1-4648-0817-3\\_ch12](http://dx.doi.org/10.1596/978-1-4648-0817-3_ch12)
11. Nkonya, Ephraim M.; Anderson, Weston; Kato, Edward; Koo, Jawoo; Mirzabaev, Alisher; von Braun, Joachim; and Meyer, Stefan. 2016. Global cost of land degradation. In *Economics of land degradation and improvement- A global assessment for sustainable development*, ed. Ephraim Nkonya, Alisher Mirzabaev, and Joachim von Braun. Chapter 6, pp. 117 - 165. [http://dx.doi.org/10.1007/978-3-319-19168-3\\_6](http://dx.doi.org/10.1007/978-3-319-19168-3_6)
  12. Koo, Jawoo; Nkonya, Ephraim M.; Azzarri, Carlo; Cox, Cindy M.; Johnson, Timothy; Komarek, Adam M.; Kwon, Ho Young; De Pinto, Alessandro; Roberts, Cleophelia; and Zhang, Wei. 2016. Land and soil management: Promoting healthy soils for healthier agricultural systems. In *2016 Global Food Policy Report*. Chapter 5. Pp. 40-47. Washington, D.C.: International Food Policy Research Institute (IFPRI). <http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/id/130213>
  13. Kihara, Job; MacCarthy, Dilys S.; Bationo, Andre; Koala, Saidou; Hickman, Jonathon; Koo, Jawoo; Vanya, Charles; Adiku, Samuel; Beletse, Yacob; Masikate, Patricia; Rao, Karuturi P. C.; Mutter, Carolyn Z.; Rosenzweig, Cynthia; and Jones, James W. 2015. Perspectives on climate effects on agriculture: The international efforts of AgMIP in sub-Saharan Africa. In *Handbook of Climate Change and Agroecosystems*, eds. Cynthia Rosenzweig and Daniel Hillel. Part Two: Sub-Saharan Africa, Chapter 1, pp. 3 - 23. London, U.K.: Imperial College Press. [http://dx.doi.org/10.1142/9781783265640\\_0013](http://dx.doi.org/10.1142/9781783265640_0013)
  14. Koo, Jawoo; Cox, Cindy M. 2014. Effects of rainfall variability on maize yields. In *Atlas of African agriculture research and development: Revealing agriculture's place in Africa*. Sebastian, Kate, Ed. Pp. 44-45. Washington, D.C.: International Food Policy Research Institute (IFPRI). [http://dx.doi.org/10.2499/9780896298460\\_19](http://dx.doi.org/10.2499/9780896298460_19)
  15. Koo, Jawoo; Cox, Cindy M. 2014. Rainfall data comparison. In *Atlas of African agriculture research and development: Revealing agriculture's place in Africa*. Sebastian, Kate, Ed. Pp. 50-51. Washington, D.C.: International Food Policy Research Institute (IFPRI). [http://dx.doi.org/10.2499/9780896298460\\_22](http://dx.doi.org/10.2499/9780896298460_22)
  16. Koo, Jawoo. 2014. Maize yield potential. In *Atlas of African agriculture research and development: Revealing agriculture's place in Africa*. Sebastian, Kate, Ed. Pp. 58-59. Washington, D.C.: International Food Policy Research Institute (IFPRI). [http://dx.doi.org/10.2499/9780896298460\\_25](http://dx.doi.org/10.2499/9780896298460_25)
  17. Cox, Cindy M.; Koo, Jawoo. 2014. Soil fertility. In *Atlas of African agriculture research and development: Revealing agriculture's place in Africa*. Sebastian, Kate, Ed. Pp. 40-41. Washington, D.C.: International Food Policy Research Institute (IFPRI). [http://dx.doi.org/10.2499/9780896298460\\_18](http://dx.doi.org/10.2499/9780896298460_18)
  18. Ringler, Claudia; Cenacchi, Nicola; Koo, Jawoo; Robertson, Richard D.; Fisher, Myles; Cox, Cindy M.; Perez, Nicostrato D.; Garrett, Karen and Rosegrant, Mark W. 2014. Sustainable agricultural intensification: The promise of innovative farming practices. In *2013 Global food policy report*. Eds. Marble, Andrew and Fritschel, Heidi. Chapter 4 Pp. 43-52. Washington, D.C.: International Food Policy Research Institute (IFPRI). <http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/id/128047>
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  21. Nkonya, Ephraim M.; Koo, Jawoo; Marennya, Paswel; Licker, Rachel. 2012. *Land Degradation: Land under Pressure*. 2011 Global Food Policy Report. Chapter 7 pp. 63-67. <http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/id/127338>
  22. Nelson, Erik; Wood, Stanley; Koo, Jawoo; Polasky, Stephen. 2011. Provisioning and regulatory ecosystem service values in agriculture. In *Natural capital: Theory and practice of mapping ecosystem services*, ed. Peter Kareiva, Heather Tallis, Taylor H. Ricketts, Gretchen C. Daily, Stephen Polasky. Chapter 9, Pp. 150-167. <https://doi.org/10.1093/acprof:oso/9780199588992.003.0009>

## Reports

1. Olayide, Olawale E.; Sangare, Saadatou A.; Koo, Jawoo; and Xie, Hua. 2020. Targeting small-scale irrigation investments using agent-based modeling: Case studies in Mali and Niger. ZEF-Discussion Papers on Development Policy No. 299. Bonn, Germany: Center for Development Research (ZEF). <https://doi.org/10.22004/ag.econ.305676>
2. Koo, Jawoo, ed.; Thurlow, James, ed.; ELDidi, Hagar, ed.; Ringler, Claudia, ed.; De Pinto, Alessandro, ed. 2019. Building resilience to climate shocks in Ethiopia. Washington, DC: International Food Policy Research Institute (IFPRI) and United Nations Development Programme (UNDP). <https://doi.org/10.2499/9780896293595>
3. Sutton, William R.; Srivastava, Jitendra P.; Koo, Jawoo; Vasileiou, Ioannis; Pradesha, Angga. 2019. Striking a Balance: Managing El Niño and La Niña in Cambodia’s Agriculture. World Bank, Washington, DC. World Bank. <https://openknowledge.worldbank.org/handle/10986/31522>
4. Sutton, William R.; Srivastava, Jitendra P.; Rosegrant, Mark; Koo, Jawoo; Robertson, Ricky. 2019. Striking a Balance: Managing El Niño and La Niña in Lao PDR’s Agriculture. World Bank, Washington, DC. World Bank. <https://openknowledge.worldbank.org/handle/10986/31520>
5. Rosegrant, Mark W.; Koo, Jawoo; Cenacchi, Nicola; Ringler, Claudia; Robertson, Richard D.; Fisher, Myles; Cox, Cindy M.; Garrett, Karen; Perez, Nicostrato D.; and Sabbagh, Pascale. 2014. Food security in a world of natural resource scarcity: The role of agricultural technologies. Washington, D.C.: International Food Policy Research Institute (IFPRI). <http://dx.doi.org/10.2499/9780896298477>
6. Nelson, Gerald C, Mark Rosegrant, Jawoo Koo, Richard Robertson, Timothy Sulser, Tingju Zhu, Siwa Msangi, et al. 2009. Climate Change: Impact on Agriculture and Costs of Adaptation. IFPRI Food Policy Report. <http://dx.doi.org/10.2499/0896295354>

## Non-Peer-Reviewed

### *Publications*

1. Garcia Andarcia, Mariangel; Dickens, Chris; Silva, Paulo; Matheswaran, Karthikeyan; Koo, Jawoo. 2024. Digital Twin for management of water resources in the Limpopo River Basin: a concept. Colombo, Sri Lanka: International Water Management Institute (IWMI). CGIAR Initiative on Digital Innovation. <https://hdl.handle.net/10568/151898>
2. Keenan, Michael; Koo, Jawoo; Mwangi, Christine; Karachiwalla, Naureen; Breisinger, Clemens; and Kim, MinAh. 2024. Man vs. machine: Experimental evidence on the quality and perceptions of AI-generated research content. IFPRI Discussion Paper 2321. Washington, DC: International Food Policy Research Institute. <https://hdl.handle.net/10568/169363>
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