

David J Spielman

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RESEARCH INTERESTS

Agriculture and rural development; agricultural science, technology, and innovation policy; genetic resources policy; seed sector development; agricultural research systems; agricultural extension and rural advisory services; community-driven rural development; agriculture-nutrition linkages

EMPLOYMENT

International Food Policy Research Institute, Addis Ababa, Washington, DC, and Kigali

Director, Innovation Policy & Scaling Unit, Washington, DC, 2023–present

Senior Research Fellow, Development Strategies & Governance Division, Washington, DC, 2022–2023

Senior Research Fellow, Development Strategies & Governance Division, Kigali, 2020–2022

Senior Research Fellow, Environment & Production Technology Division, Washington, DC, 2011–2020

Research Fellow, Environment & Production Technology Division, Washington, DC, 2010–2011

Research Fellow, Knowledge, Capacity, & Innovation Division, Addis Ababa, 2006–2010

Postdoctoral Research Fellow, Int'l Service for Nat'l Agricultural Research Division, Addis Ababa, 2004–2006

Consultant, Communications Division, Washington, DC, 2003–2004

Operations Evaluation Department, World Bank, Washington, DC, 2002

Consultant, contributor to [*The CGIAR at 31: An Independent Meta-Evaluation of the Consultative Group on International Agricultural Research*](#)

Economic Research Service, U.S. Department of Agriculture, Washington, DC, 2001

Consultant/intern, contributor to [*The Seed Industry in U.S. Agriculture: An Exploration of Data and Information on Crop Seed Markets, Regulation, Industry Structure, and Research and Development*](#)

Aga Khan Rural Support Programme, Gilgit, Pakistan, 1997–1999

Research Economist, Credit & Savings, responsible for analysis of data on AKRSP's microfinance portfolio performance, and trends and patterns in lending and repayment

Aga Khan Education Service, Pakistan (AKESP), Gilgit, Pakistan, 1995–1997

Planning & Development Officer, responsible for supervising programs on school construction and teacher training, as well as program fundraising, monitoring, evaluation, and reporting for AKESP network of 125 community-based schools across the Northern Areas and Chitral

PROGRAM MANAGEMENT EXPERIENCE

Major programs

Work package leader (policy and regulation), *One CGIAR Seed Equal Initiative*, 2022–24. Funded by [CGIAR and its donors](#) (\$1.1 million/year)

Program leader, *Rwanda Strategy Support Program*, International Food Policy Research Institute, 2020–22. Supported by the Rwanda Ministry of Agriculture and Animal Resources with funding from the European Union, U.S. Agency for International Development, Government of Netherlands, and International Growth Center (\$1.0 million/year)

Theme leader, *Science, Technology, and Innovation Policy*, International Food Policy Research Institute, 2016–20. Funded by the U.S. Agency for International Development, Bill & Melinda Gates Foundation, U.K. Department for International Development, CGIAR, Dutch Research Council, Swiss Development Agency, and others (\$12 million/year)

Flagship leader, *Technological Innovation and Sustainable Intensification*, 2019–20 and cluster co-leader, *Science Policy and Innovation Systems for Sustainable Intensification*, 2013–21, CGIAR Research Program on Policies, Institutions, and Markets. Funded by [CGIAR and its donors](#) (\$3.2 million/year)

Major projects and activities

Co-convener, *CGIAR Community of Excellence for Seed Systems Development*, 2020–21. Funded by the CGIAR Research Program on Policies, Institutions, and Markets and the Netherlands (\$0.8 million)

Principal investigator (evaluation and policy), *Developing Local Extension Capacity (DLEC)*, 2016–21. Funded by the U.S. Agency for International Development (\$2.5 million)

Lead researcher (policy component), *Cereal Systems Initiative for South Asia (CSISA)*, 2012–17. Funded by the Bill & Melinda Gates Foundation and the U.S. Agency for International Development (\$4.5 million)

Co-principal investigator, *Assessing the Impacts of a Changing Institutional Landscape on the Global Exchange of Genetic Resources for Food and Agriculture*, 2016–18. Funded by the U.S. Agency for International Development (\$0.2 million)

Principal investigator, *Impact Evaluation of a Soil Fertility Training Program in the Volta Region of Ghana*, 2015–18. Funded by the International Initiative for Impact Evaluation (\$0.65 million)

Lead researcher (production and productivity), *Pakistan Strategy Support Program*, 2011–16. Funded by the U.S. Agency for International Development (\$1.5 million)

Lead researcher, *Millions Fed: Proven Successes in Agricultural Development*, 2007–09. Funded by the Bill & Melinda Gates Foundation (\$1.0 million)

Lead researcher. *Rural innovation systems and networks in Ethiopia*, 2006–07. Funded under the Ethiopia Strategy Support Program by the U.K. Department for International Development, the U.S. Agency for International Development, and the European Commission (\$0.2 million)

Lead researcher. *Public-private Partnerships in International Agricultural Research*, 2004–07. Funded by the U.K. Department for International Development and the Syngenta Foundation for Sustainable Agriculture (\$0.4 million)

EDUCATION

Ph.D. in Economics, American University, December 2003

Dissertation: *Public Goods, Private Incentives, and Agricultural R&D: Productivity and Poverty in Developing Country Agriculture*. Dissertation Committee: John Willoughby (chair), Walter Park, and Mary Hansen

M.Sc. in Development Studies, London School of Economics, October 1993

Coursework in development economics, economic history, and demography

B.A. in International Relations, Tufts University, May 1992

Coursework in economics, political science, and history

RESEARCH

Refereed journal articles

1. Lecoutere, E., D.J. Spielman, and B. Van Campenhout. [Empowering women through targeting information or role models: Evidence from an experiment in agricultural extension in Uganda](#). *World Development* (available online).
2. Abay, K., G. Abate, J. Chamberlin, and D.J. Spielman. 2023. [Digital tools and agricultural market transformation in Africa: Why are they not at scale yet, and what will it take to get there?](#) *Food Policy* (available online).
3. Abate, G.T., T. Bernard, S. Makhija, and D.J. Spielman. 2023. [Accelerating technical change through ICT: Evidence from a video-mediated extension experiment in Ethiopia](#). *World Development* (available online).
4. Bagamba, F., P.R. Ntaky, G. Otim, D.J. Spielman, and B. Van Campenhout. 2023. [Policy and performance in Uganda's seed sector: Opportunities and challenges](#), *Development Policy Review* e12665.
5. Van Campenhout, B., E. Lecoutere, and D.J. Spielman 2022. [Hiding or pleasing: Spousal disagreement among Ugandan maize farmers](#). *Journal of Development Studies* 59(1): 39–57.
6. Mekonnen, D.K., and D.J. Spielman. 2021. [Changing patterns in the international movement of crop genetic materials: An analysis of global policy drivers and potential consequences](#). *Food Policy* 105: 102161.
7. Donovan, J., P. Rutsaert, D.J. Spielman, K. Mashisia Shikuku, and M. Demont. 2021. [Seed value chain development in the Global South: Key issues and new directions for public breeding programs](#). *Outlook on Agriculture* 50(4): 366–377.
8. Spielman, D., E. Lecoutere, S. Makhija, and B. Van Campenhout. 2021. [ICTs and agricultural extension in developing countries](#). *Annual Review of Resource Economics* 13: 177–201
9. Gatto, M., D. Phuong Le, G. Pacillo, M. Maredia, R. Labarta, G. Hareau, and D.J. Spielman. 2021. [Policy options for advancing seed systems for vegetatively propagated crops in Vietnam](#). *Journal of Crop Improvement* 35(6): 763–0789.
10. Van Campenhout, B., D.J. Spielman, and E. Lecoutere. 2021. [Information and communication technologies \(ICTs\) to provide agricultural advice to smallholder farmers: Experimental evidence from Uganda](#). *American Journal of Agricultural Economics* 103(1): 317–337.
11. Ward, P.S., D.J. Spielman, D.L. Ortega, N. Kumar, and S. Minocha. 2020. [Complementarity of drought-tolerant rice and weather index insurance: Evidence on farmers' preferences for drought risk management in Bangladesh](#). *Economic Development and Cultural Change* 68(2): 607–653.
12. Ward, P.S., S. Makhija, and D. Spielman. 2020. [Drought-tolerant rice, weather index insurance, and comprehensive risk management for smallholders: Evidence from a multi-year field experiment in India](#). *Australian Journal of Agricultural and Resource Economics* 64(2): 421–454.
13. Kouser, S., D.J. Spielman, and M. Qaim. 2019. [The impact of transgenic cotton on farmers' health in Pakistan](#). *PLoS One* 14(10): e0222617.
14. Stevenson, J., B. Vanlauwe, K. Macours, N. Johnson, L. Krishnan, F. Place, D. Spielman, P. Vlek, and K. Hughes. 2019. [Farmer adoption of plot and farm-level natural resource management practices: Between rhetoric and reality](#). *Global Food Security* 20: 100–104.
15. Hill, R.V., N. Kumar, N. Magnan, S. Makhija, F. de Nicola, D.J. Spielman, and P.S. Ward. 2019. [Insuring against droughts: Evidence on agricultural intensification and index insurance demand from a randomized evaluation in rural Bangladesh](#). *Journal of Development Economics* 136: 1–17.
16. Kosec, K., M.A. Hamza Haider, D.J. Spielman, and F. Zaidi. 2018. [The effects of political competition on rural land: Evidence from Pakistan](#). *Oxford Economic Papers* 70(4): 1036–1061.
17. Lybbert, T. J., N. Magnan, D.J. Spielman, A.K. Bhargava, and K. Gulati. 2018. [Targeting technology to reduce poverty and conserve resources: Experimental provision of laser land leveling services to Indian farmers](#). *Economic Development and Cultural Change* 66(2): 265–306.

18. Meemken, E.-V., D.J. Spielman, and M. Qaim. 2017. [Trading off nutrition and education? A panel data analysis of the dissimilar welfare effects of Organic and Fairtrade standards.](#) *Food Policy* 71: 74–85.
19. Azzarri, C., B. Haile, C. Roberts, and D. Spielman. 2017. [Targeting, bias, and expected impact of complex innovations on developing-country agriculture: Evidence from Malawi.](#) *Agricultural Economics* 48(3): 317–326.
20. Spielman, D.J., F. Zaidi, P. Zambrano, A.A. Khan, S. Ali, H.M.N. Cheema, H. Nazli, R.S.A. Khan, A. Iqbal, M.A. Zia, and G.M. Ali. 2017. [What are farmers really planting? Measuring the presence and effectiveness of Bt cotton in Pakistan.](#) *PLoS One* 12(5): e0176592.
21. Ma, X., M. Smale, D.J. Spielman, P. Zambrano, H. Nazli, and F. Zaidi. 2017. [A question of integrity: Variants of Bt cotton, pesticides, and productivity in Pakistan.](#) *Journal of Agricultural Economics* 68(2): 366–385.
22. Spielman, D.J., P.S. Ward, D.E. Kolady, and H. Ar-Rashid. 2017. [Public incentives, private investment, and outlooks for hybrid rice in Bangladesh and India.](#) *Applied Economic Perspectives & Policy* 39(1): 154–176.
23. Spielman, D.J., and A. Kennedy. 2016. [Towards better metrics and policymaking for seed system development: Insights from Asia's seed industry.](#) *Agricultural Systems* 147: 111–122.
24. Spielman, D.J., and X. Ma. 2016. [Private sector incentives and the diffusion of agricultural technology: Evidence from developing countries.](#) *Journal of Development Studies* 52(5): 696–717.
25. Krishna, V.V., D.J. Spielman, and P.C. Veetil. 2016. [Exploring the supply and demand factors of varietal turnover in Indian wheat.](#) *Journal of Agricultural Science* 154(2): 258–272.
26. Magnan, N., D.J. Spielman, T.J. Lybbert, and K. Gulati. 2015. [Leveling with friends: Social networks and Indian farmers' demand for agricultural custom hire services.](#) *Journal of Development Economics* 116: 223–251.
27. Spielman, D. J., H. Nazli, X. Ma, P. Zambrano, and F. Zaidi. 2015. [Technological opportunity, regulatory uncertainty, and the economics of Bt cotton in Pakistan.](#) *AgBioForum* 18(1): 98–112.
28. Mekonnen, D.K., D.J. Spielman, J.H. Dorfman and G. Fonsah. 2015. [Innovation systems and technical efficiency in developing-country agriculture.](#) *Agricultural Economics* 46(5): 1–14.
29. Chiputwa, B., D.J. Spielman, and M. Qaim. 2015. [Food standards, certification, and poverty among coffee farmers in Uganda.](#) *World Development* 66: 400–412.
30. Ward, P.S., D.L. Ortega, D.J. Spielman, and V. Singh. 2014. [Farmer preferences for drought tolerance in hybrid versus inbred rice: Evidence from Bihar, India.](#) *World Development* 64: 125–139.
31. Spielman, D.J., D.E. Kolady, A.J. Cavalieri, and N.C. Rao. 2014. [The seed and agricultural biotechnology industries in India: An analysis of industry structure, competition, and policy options.](#) *Food Policy* 45: 88–100.
32. Spielman, D.J., D.E. Kolady, and P.S. Ward. 2013. [The prospects for hybrid rice in India.](#) *Food Security* 5(5): 651–665.
33. Dey, M.M., D.J. Spielman, A.B.M. Mahfuzul Haque, M.S. Rahman, and R. Valmonte-Santos. 2013. [Change and diversity in smallholder rice-fish systems: Recent evidence from Bangladesh.](#) *Food Policy* 43: 107–118.
34. Lybbert, T.J., N. Magnan, A.K. Bhargava, K. Gulati, and D.J. Spielman. 2012. [Farmers' heterogeneous valuation of laser land leveling in eastern Uttar Pradesh: An experimental auction to inform segmentation and subsidy strategies.](#) *American Journal of Agricultural Economics* 95(2): 339–345.
35. Kolady, D., D.J. Spielman, and A.J. Cavalieri. 2012. [Intellectual property rights, private investment in research, and productivity growth in Indian agriculture.](#) *Journal of Agricultural Economics* 63(2): 361–384.
36. Spielman, D.J., K. Davis, M. Negash, and G. Ayele. 2011. [Rural innovation systems and networks: findings from a study of Ethiopian smallholders.](#) *Agriculture & Human Values* 28(2): 195–212.
37. Wesseler, J., D.J. Spielman, D.J., and M. Demont. 2010. [The future of governance in the global bioeconomy: Policy, regulation, and investment challenges for the biotechnology and bioenergy sectors.](#) *AgBioForum* 13(4): 288–290.

38. Spielman, D. J., F. Hartwich, and K. von Grebmer. 2010. [Public-private partnerships and developing-country agriculture: Evidence from the international research system](#). *Public Administration & Development* 30(4): 261–276.
39. Spielman, D.J., D. Byerlee, D. Alemu, and D. Kelemework. 2010. [Policies to promote cereal intensification in Ethiopia: A review of evidence and experience](#). *Food Policy* 35(3): 185–194.
40. Naseem, A. D.J. Spielman, and S.W. Omamo. 2010. [Private-sector investment in R&D: A review of policy options to promote its growth in developing-country agriculture](#). *Agribusiness* 26(1): 143–173.
41. Spielman, D.J., M.J. Cohen, and T. Mogue. 2009. [Local governance systems and smallholder cooperatives in Ethiopia](#). *International Journal of Agricultural Resources, Governance & Ecology* 8(5/6): 388–408.
42. Bernard, T. and D.J. Spielman. 2009. [Cooperatives and the poor: Who's in, who's out? A study of marketing cooperatives in rural Ethiopia](#). *Food Policy* 34(1): 60–69.
43. Spielman, D.J., J. Ekboir, and K. Davis. 2009. [The art and science of innovation systems inquiry: Applications to Sub-Saharan African agriculture](#). *Technology in Society* 31(4): 399–405.
44. Birner R, K. Davis, J. Pender, E. Nkonya, P. Anandajayasekeram, J. Ekboir, A. Mbabu, D.J. Spielman, D. Horna, S. Benin, and M. Cohen. 2009. [From best practice to best fit: A framework for designing and analyzing pluralistic agricultural advisory services worldwide](#). *Journal of Agricultural Education and Extension* 15(4): 341–55.
45. Spielman, D.J., J. Ekboir, K. Davis, and C.M.O. Ochieng. 2008. [An innovation systems perspective on strengthening agricultural education and training in Sub-Saharan Africa](#). *Agricultural Systems* 98(1): 1–9.
46. Davis, K.E., J. Ekboir, and D.J. Spielman. 2008. [Strengthening agricultural education and training in sub-Saharan Africa from an innovation systems perspective: A case study of Mozambique](#). *Journal of Agricultural Education and Extension* 14(1): 35–51.
47. Spielman, D.J., J.I. Cohen, and P. Zambrano. 2007. [Are developing country policies and investments promoting research and research partnerships in agricultural biotechnology?](#) *International Journal of Biotechnology* 9(6): 509–529.
48. Spielman, D.J. 2007. [Pro-poor agricultural biotechnology: Can the international research system deliver the goods?](#) *Food Policy* 32(2): 189–204.
49. Spielman, D.J., J.I. Cohen, and P. Zambrano. 2006. [Will agbiotech applications reach marginalized farmers? Evidence from developing countries](#). *AgBioForum* 9(1): 23–30.
50. Spielman, D.J., and K. von Grebmer. 2006. [Public-private partnerships in international agricultural research](#). *Journal of Technology Transfer* 31(2): 291–300.
51. Spielman, D.J. 2006. [A critique of innovation systems perspectives on agricultural research in developing countries](#). *Innovation Strategy Today* 2(1): 41–54.
52. Spielman, D.J. 2006. [Systems of innovation: Models, methods, and future directions](#). *Innovation Strategy Today* 2(1): 55–66.

Refereed books and book chapters

1. Abate, G.T., K.A. Abay, and D.J. Spielman. 2020. [Fertilizer policies and implications for African agriculture](#). In *ReSAKSS 2020 Annual Trends and Outlook Report—Sustaining Africa's Agrifood System Transformation: The Role of Public Policies*, D. Resnick, X. Diao, and G. Tadesse, eds. Washington, DC, and Kigali: IFPRI and AKADEMIYA2063.
2. Spielman, D.J. 2020. [Seed policies and regulatory reforms](#). In *ReSAKSS 2020 Annual Trends and Outlook Report—Sustaining Africa's Agrifood System Transformation: The Role of Public Policies*, D. Resnick, X. Diao, and G. Tadesse, eds. ReSAKSS 2020 Annual Trends and Outlook Report. Washington, DC, and Kigali: IFPRI and AKADEMIYA2063.
3. Spielman, D.J. and D. Mekonnen. 2018. [Seed demand and supply responses in Ethiopia's teff seed system](#). In *The Economics of Teff: Exploring Ethiopia's Biggest Cash Crop*, B. Minten, A.S. Taffesse, and P. Brown, eds. Washington, DC: IFPRI.

4. Spielman, D.J., S.J. Malik, P. Dorosh, and N. Ahmed, eds. 2016. *Agriculture and the Rural Economy in Pakistan: Issues, Outlooks, and Policy Priorities*. Philadelphia: University of Pennsylvania Press.
5. Pingali, P.L., D.J. Spielman, and F. Zaidi. 2016. *Changing donor trends in assistance to agricultural research and development in Africa south of the Sahara*. In *Agricultural Research in Africa: Investing in Future Harvests*, J. Lynam, N. Beintema, J. Roseboom, and O. Badiane, eds. Washington, DC: IFPRI.
6. Spielman, D.J., D. Zang, and X. Ma. 2014. *Clusters, innovation systems, and biotechnology in developing-country agriculture*. In *Handbook on Agriculture, Biotechnology and Development*, S. Smyth, D. Castle, and P. Phillips, eds. Surrey, UK: Edward Elgar Publishing.
7. Juma, C., and D.J. Spielman. 2013. *Farmers as entrepreneurs: Sources of agricultural innovation in Africa*. In *New Directions for Smallholder Agriculture*, P.B.R. Hazell and A. Rahman, eds. Oxford: Oxford University Press.
8. Spielman, D.J., and P. Zambrano. 2013. Policy, private investment, and agricultural biotechnology in Africa: New and emerging evidence. In *What Role for Genetically Modified Crops in Sub-Saharan Africa? Lessons from Economic and Policy Research*, G. Gruere and J. Falck-Zepeda, eds. Washington, DC: IFPRI.
9. Spielman, D.J., C. Ragasa, and R. Rajalahti. 2012. Designing agricultural research linkages within an AIS framework. In *Agricultural Innovation Systems: An Investment Sourcebook*. Washington, DC: World Bank.
10. Spielman, D.J., D. Kelemework, and D. Alemu. 2012. *Seed, fertilizer, and agricultural extension in Ethiopia*. In *Food and Agriculture in Ethiopia: Progress and Policy Challenges*, P. Dorosh and S. Rashid, eds. Philadelphia: University of Pennsylvania Press.
11. Bernard, T., D.J. Spielman, A.S. Taffesse, and E.Z. Gabre-Madhin. 2010. *Cooperatives for Staple Crop Marketing: Evidence from Ethiopia*. IFPRI Research Monograph no. 164. Washington, DC: IFPRI.
12. Spielman, D.J. and R. Pandya-Lorch, eds. 2010. *Proven Successes in Agricultural Development: A Technical Compendium to Millions Fed*. Washington, DC: IFPRI.
13. Spielman, D.J. and R. Pandya-Lorch, eds. 2009. *Millions Fed: Proven Successes in Agricultural Development*. Washington, DC: IFPRI.

Submissions to refereed journals under review

1. Wossen, T., D.J. Spielman, and T. Abdoulaye. Estimating seed demand in the presence of market frictions: Evidence from an auction experiment in Nigeria, *submitted*.
2. Abate, G.T., K.A. Abay, J. Chamberlin, D.J. Spielman, and M.P. Tabe-Ojong. Digital tools and agricultural market transformation in Africa: Why are they not at scale yet, and what will it take to get there, *revised and resubmitted*.
3. Lecoutere, E., D.J. Spielman, and B. Van Campenhout. Women's empowerment, agricultural extension, and digitalization: Disentangling information and role model effects in rural Uganda, *revised and resubmitted*.
4. Gulati, K., P.S. Ward, T.J. Lybbert, and D.J. Spielman. Intrahousehold preference heterogeneity and demand for labor-saving agricultural technology: The case of mechanical rice transplanting in India, *revised and resubmitted*.
5. Alvi, M., P. Ward, S. Makhija, and D.J. Spielman. Do grassroots interventions relax behavioral constraints to the adoption of nutrition-sensitive food production systems?, *revised and resubmitted*.
6. Ward, P., M. Alvi, S. Makhija, and D.J. Spielman. Cooperation and the provision of local public goods in remote rural communities, *under review*.

Selected working papers

1. Diao, X., M. Ellis, S. Mugabo, K. Pauw, G. Rosenbach, D.J. Spielman, and J. Thurlow. 2022. *Rwanda's Agrifood System: Structure and Drivers of Transformation*. Rwanda Strategy Support Program Working Paper no. 6. Kigali and Washington, DC: IFPRI.
2. Spielman, D.J., S. Mugabo, G. Rosenbach, S. Ndikumana, G. Benimana, and C. Ingabire. 2022. *Policy Options for Fertilizer Subsidy Reforms in Rwanda: A Simulation-based Analysis and Synthesis of Prior Studies*. Rwanda Strategy Support Program Working Paper no. 5. Kigali and Washington, DC: IFPRI.

3. Dusingizimana, P., J. Kazungu, A. Lalui, P. Milani, J. Munanura, A. Nsabimana, J.K. Sindi, D.J. Spielman, and M. Umugwaneza. 2022. *Rwanda's Food Systems Transformation: A Diagnostic of the Public Policy Landscape Shaping the Transformation Process*. Rwanda SSP Working Paper no. 4. Kigali and Washington, DC: IFPRI.
4. Aragie, E., X. Diao, D.J. Spielman, J. Thurlow, S. Mugabo, G. Rosenbach, and G. Benimana. 2022. *Public Investment Prioritization for Rwanda's Inclusive Agricultural Transformation: Evidence from Rural Investment and Policy Analysis Modeling*. Rwanda Strategy Support Program Working Paper no. 3. Kigali and Washington, DC: IFPRI.
5. Spielman, D.J., M. Gatto, T. Wossen, M. McEwan, T. Abdoulaye, M. Maredia, and G. Hareau. 2021. *Regulatory Options to Improve Seed Systems for Vegetatively Propagated Crops in Developing Countries*. IFPRI Discussion Paper no. 02029. Washington, DC: IFPRI.
6. Diao, X., G. Rosenbach, D.J. Spielman, and E. Aragie. 2021. *Assessing the Impacts of COVID-19 on Household Incomes and Poverty in Rwanda: A Microsimulation Approach*. Rwanda Strategy Support Program Working Paper no. 2. Kigali and Washington, DC: IFPRI.
7. Abay, K.A., G.T. Abate, J. Chamberlin, Y. Kassim, and D.J. Spielman. 2021. *Digital Tools and Agricultural Market Transformation in Africa: Why are They Not at Scale Yet, and What Will it Take to Get There?* IFPRI Discussion Paper no. 2092. Washington, DC: IFPRI.
8. Aragie, E., X. Diao, S. Robinson, G. Rosenbach, D.J. Spielman, and J. Thurlow. 2021. *Assessing the Economy-wide Impacts of COVID-19 on Rwanda's Economy, Agri-food System, and Poverty: A Social Accounting Matrix (SAM) Multiplier Approach*. Rwanda Strategy Support Program Working Paper no. 1. Kigali and Washington, DC: IFPRI.
9. Mekonnen, D., G.T. Abate, S. Yimam, R. Benfica, D.J. Spielman, and F. Place. 2021. *The Impact of Ethiopia's Direct Seed Marketing Approach on Smallholders' Access to Seeds, Productivity, and Commercialization*. IFPRI Discussion Paper no. 01998. Washington, DC: IFPRI.
10. Margaret A. McEwan, M., Spielman, D.J., Okello, J.J., Hareau, G., Bartle, B., Mbiru D.G., Atieno, E.O., Omondi, B.A., Wossen, T., Gonzalez, L.C., Abdoulaye, T., and Maredia, M. 2021. *Exploring the Regulatory Space for Improving Availability, Access and Quality of Vegetatively Propagated Crop Seed: The Case of Seed Potato in Kenya*. CGIAR Research Program on Roots, Tubers and Bananas Working Paper no. 2021-1. Lima, Peru: International Potato Center.
11. Wossen, T., D.J. Spielman, T. Abdoulaye, and P.L. Kumar. 2020. *The Cassava Seed System in Nigeria: Opportunities and Challenges for Policy and Regulatory Reform*. CGIAR Research Program on Roots, Tubers, and Bananas (RTB) Working Paper no. 2020-2. Lima. Peru: International Potato Center.
12. Spielman, D.J., and M. Smale. 2017. *Policy Options to Accelerate Varietal Change among Smallholder Farmers in South Asia and Africa South of the Sahara*. IFPRI Discussion Paper no. 01666. Washington, DC: IFPRI.
13. Davis, K., S. Franzel, and D.J. Spielman. 2016. *Extension Options for Better Livelihoods and Poverty Reduction: A Selected Review, 2012–2015*. Michigan State University International Development Working Paper no. 143. East Lansing, MI: MSU.

TEACHING

Edmund A. Walsh School of Foreign Service, Georgetown University, Washington, DC

Adjunct Professor, "Agriculture, environment, and sustainable development: Political economy perspectives" (GHDP-759), graduate seminar (7 weeks) in the Global Human Development Program, January–February 2017 and 2018

Department of Economics, American University, Washington, DC

Lecturer, "Macroeconomics" (Econ 100G–007), undergraduate class (14 weeks) in principles of macroeconomics, September–December 2001

Lecturer, "Microeconomics" (Econ 200G–007), undergraduate class (14 weeks) in principles of microeconomics, January–May 2002

AWARDS

2019 Recipient, Best Paper Focused on Gender Issues, from the African Association of Agricultural Economists (AAAE) at the 6th African Conference of Agricultural Economists, for E. Lecoutere, D.J. Spielman, and B. Van Campenhout, "Empowering women with digital extension in Uganda: Effects of information and role models."

2018 Finalist, Uma Lele Prize for Best Contributed Paper on Gender, from the International Association of Agricultural Economists (IAEE) at the 30th International Conference of Agricultural Economists Vancouver, for B. Van Campenhout, E. Lecoutere, and D.J. Spielman, "The role of gender in ICT-mediated extension information campaigns: Evidence from Uganda."

2010 Recipient, Quality of Communication Award, from the Agricultural and Applied Economics Association (AAEA) for D.J. Spielman and R. Pandya-Lorch (2009), *Millions Fed: Proven Successes in Agricultural Development*

2010 Mercury Excellence Awards in Communications for D.J. Spielman and R. Pandya-Lorch (2009), *Millions Fed: Proven Successes in Agricultural Development* in the categories of "DVDs/Videos: Educational/Informational," "Promotion/Marketing: Awareness Campaign," "DVDs/Videos: Public Awareness Campaign," and "Writing: Booklet"

2008 *Journal of Agricultural Education & Extension* Award for Best Article: K.E. Davis, J. Ekboir, and D.J. Spielman (2008), "Strengthening agricultural education and training in sub-Saharan Africa from an innovation systems perspective: A case study of Mozambique"

2002–03 Dissertation Fellowship Award, College of Arts & Sciences, American University

2002 James H. Weaver Award for Teaching Excellence, Department of Economics, American University

2002 Frank Tamagna Award for Outstanding Work in International Economics, Department of Economics, American University

MEMBERSHIPS AND SERVICE

Member, Agriculture Sector Working Group, chaired by the Rwanda Ministry of Agriculture and Animal Resources (MINAGRI) and the World Bank (January 2021–present)

Member, Steering Group, African Seed and Biotechnology Partnership Platform, convened by the African Union (December 2020–present)

Member, CGIAR Design Team for the Genetic Innovation Science Group and Design Team for the CGIAR Seed Equal Initiative (September 2020–December 2021)

Member, CGIAR Genebank Platform (September 2017–December 2021)

Member, Technical Advisory Group (TAG) for the African Women in Agricultural Research and Development (AWARD) review of *The State of Gender Responsive Agricultural Research for Development in Africa* (April 2017–February 2018)

Member, Advisory Panel for the FAO Symposium on *The Role of Agricultural Biotechnologies in Sustainable Food Systems and Nutrition* (May 2015–April 2016)

Member, Expert Review Committee, Access to Seeds Index, led by the World Benchmarking Alliance (March 2014–present)

Member, Agricultural & Applied Economics Association, International Association of Agricultural Economists, African Association of Agricultural Economics

Chair, IFPRI Data Governance and Management Committee (September 2017–September 2020)

Member, IFPRI Publications Review Committee (July 2012–April 2018)

Chair, IFPRI Private Sector Task Force (January 2012–September 2014)

Reviewer for *Agricultural Economics*, *Agricultural Systems*, *American Journal of Agricultural Economics*, *Food Policy*, *Global Food Security*, *Journal of Agricultural Economics*, *Journal of Development Studies*, *Journal of Modern African Studies*, *Journal of Rural Studies*, *Land Economics*, *Land Use Policy*, *World Development*, *Journal of Economic Behavior and Organization*, *Applied Economics Perspectives and Policy*, among others

SKILLS AND ABILITIES

Functional ability in Urdu and Hindi; Elementary ability in Amharic

Proficiency in MS Office applications. Experience with Stata, EViews, LaTeX, UCINET, and other statistical, mathematical, and scientific software

Expertise in logical framework analysis, results-based management, outcome mapping, and other project monitoring, learning, and evaluation systems

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