

VIJESH V. KRISHNA

Dept. of Agricultural Economics and Rural Development, University of Göttingen, Platz der Göttinger Sieben 5, Germany	Ph.: +49 (0)551-39-33917 Fax: +49 (0)551-39-4823 Email: vkrishn@gwdg.de
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CURRENT RESEARCH INTERESTS

Inclusive development; Agricultural technologies; Impact heterogeneity; Environment and development economics.

PROFESSIONAL APPOINTMENTS

2017-	Lead Economist (Adoption and Impact), International Maize and Wheat Improvement Center (CIMMYT), Mexico City
2017-	Associated researcher, CRC 990, University of Göttingen, Germany
2012-2017	Senior Research Fellow, University of Göttingen, Germany
2009-2012	Production & Resource Economist for South Asia, International Maize and Wheat Improvement Center (CIMMYT), New Delhi
2008-2009	Post-Doctoral Research Fellow, University of California, Berkeley

EDUCATION

2007	PhD in Agricultural Economics, University of Hohenheim, Germany Dissertation title: "Adoption, impacts, and consumer acceptance of genetically modified eggplant in India: An <i>ex ante</i> analysis"
2004	MPhil in Environmental Policy, University of Cambridge, UK
2001	MSc in Agricultural Economics, University of Agricultural Sciences (Bangalore), India
1999	BSc in Agriculture, Kerala Agricultural University, India

FELLOWSHIPS & AWARDS

2011	Short-listed for Robert Bosch Junior Professorship on "Sustainable Use of Renewable Natural Resources"
2008-2009	Ciriacy-Wantrup Post-Doctoral Fellowship, University of California, Berkeley
2003-2004	Department for International Development (DFID) Shared Scholarship, Association of Commonwealth Universities and University of Cambridge
1999-2011	Junior Research Fellowship, Indian Council of Agricultural Research

TEACHING & TRAINING EXPERIENCE

2014-2017	"Microeconomic theory and quantitative methods of agricultural production", University of Göttingen (Winter Semester)
2012-2015	"Topics in rural development economics", University of Göttingen, (with Profs. Martin Qaim and Meike Wollni, Summer Semester)
2010 & 2011	"Advanced environmental and natural resource economics" Visiting lecturer at the University of Agricultural Sciences Bangalore and MS Swaminathan Research Institute
2009-2017	Supervised the research work of 20 MSc students in CIMMYT and University of Göttingen

EXPERIENCE IN INDEPENDENT RESEARCH PROJECT MANAGEMENT

2009-2012	Principal Investigator of 3 sub-projects of "Cereal Systems Initiative of South Asia" (CSISA), jointly funded by the United States Agency for International Development (USAID) and Bill and Melinda Gates Foundation (BMGF), at the International Maize and Wheat Improvement Center (CIMMYT), New Delhi
2010-2012	Principal Investigator of a subproject of "Sustainable Intensification of Smallholder Maize-Livestock Farming Systems in Hills Area of South Asia" funded by the International Fund for Agricultural Development (IFAD) at the International Maize and Wheat Improvement Center (CIMMYT), New Delhi
2009-2012	Principal Investigator of a subproject of "Abiotic Stress-Tolerant Maize for Increasing Income and Food Security among the Poor in South and Southeast Asia" funded by the Federal Ministry of Economic Cooperation and Development (BMZ) and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH at the International Maize and Wheat Improvement Center (CIMMYT), New Delhi

FIELD EXPERIENCE

- § Organized and monitored field studies in India, Indonesia, Nepal, Slovenia and Bangladesh.
- § Designed and administered computer-aided personal interviews (*Surveybe*)

REVIEW AND ADVISORY ACTIVITIES

- § Referee for 27 academic journals (as of July 2017): *American Journal of Agricultural Economics; World Development; Ecological Economics; European Review of Agricultural Economics; Agricultural Economics; Land Economics; Food Policy; Journal of Agricultural Economics; Land Use Policy; Journal of the Association of Environmental and Resource Economists; Environmental and Development Economics; Environment, Development, and Sustainability; Renewable Agriculture and Food Systems; Economic Botany; Journal of Agricultural and Resource Economics; Water Economics and Policy; Journal of Rural Studies; Review of Development Economics; Current Science; Food Security; Journal of Integrative Agriculture; Quarterly Journal of*

International Agriculture; African Journal of Agricultural Research; Journal of Agriculture and Rural Development in the Tropics and Subtropics; AgBioForum; Sustainability; Journal of Agricultural Science and Technology

- § Referee for CIMMYT Working Paper Series (2010-2012), and International Conference of Agricultural Economists (2015, 2012, 2009)
- § External examiner of PhD thesis, Jawaharlal Nehru University (JNU), New Delhi

PROFESSIONAL ASSOCIATIONS

- § Research collaborations with Basque Center of Climate Change (BC³), Spain, and University of Ljubljana, Slovenia
- § Ernst Strüngmann Forum for agrobiodiversity (2016)
- § Member, Agriculture and Applied Economics Association (AAEA; 2016-17)
- § Member, American Economic Association (2015-16, 2016-2017)
- § Life-time member of Indian Society of Agricultural Economists (ISAE)
- § Lifetime member of Indian Society for Ecological Economics (INSEE)

LANGUAGES SKILLS

Malayalam (Mother Tongue)
English (Fluent)
Hindi (Fluent)
Indonesian (Basic)
Tamil (Basic)

RESEARCH PAPERS

I. PUBLISHED IN ACADEMIC JOURNALS

1. Krishna, V.V., Kubitzka, C., Pascual, U. and Qaim, M. (2017) "Land markets, property rights, and deforestation: Insights from Indonesia." *World Development* in press.
2. Krishna, V.V., Euler, M., Siregar, H. and Qaim, M. (2017) "Differential livelihood impacts of oil palm expansion in Indonesia." *Agricultural Economics* 48(5): in press.
3. Euler, M., Krishna, V.V., Schwarze, S., Siregar, H. and Qaim, M. (2017) "Oil palm adoption, household welfare and nutrition among smallholder farmers in Indonesia". *World Development* 93: 219–235.
4. Veettil, C.P., Krishna, V.V. and Qaim, M. (2017) "Ecosystem impacts of pesticide reduction through Bt cotton adoption". *Australian Journal of Agricultural and Resource Economics* 60: 1–20.
5. Clough, Y., Krishna, V.V. et al. (2016) "Land-use choices follow profitability at the expense of ecological functions in Indonesian smallholder landscapes". *Nature Communications* 7: 13137.
6. Drescher et al. (2016). "Ecological and socioeconomic functions across tropical land-use systems after rainforest conversion." *Philosophical Transactions of the Royal Society B*, 371: 20150275.
7. Krishna, V., Zilberman, D. and Qaim, M. (2016). "Transgenic crops, production risk and agrobiodiversity." *European Review of Agricultural Economics*, 43(1): 137-164.
8. Krishna, V.V., Spielman, D.J. and Veettil, C.P. (2016) "Exploring the supply and demand factors of varietal turnover in Indian wheat". *Journal of Agricultural Science*, 154(2): 258-272.
9. Sibhatu, K.T., Krishna, V.V. and Qaim, M. (2015). "Reply to Remans et al.: Strengthening markets is key to promote sustainable agricultural and food systems". *Proceedings of the National Academy of Sciences USA*, 112(45): E6083.
10. Sibhatu, K.T., Krishna, V.V. and Qaim, M. (2015). "Reply to Berti: Relationship between production and consumption diversity remains small also with modified diversity measures". Published online at *Proceedings of the National Academy of Sciences USA*, 112(42): E5657.
11. Sibhatu, K.T., Krishna, V.V. and Qaim, M. (2015). "Production diversity and dietary diversity in smallholder farm households". *Proceedings of the National Academy of Sciences USA*, 112(34): 10657-10662.
12. Raghu, P. T., Erenstein, O., Böber, C., & Krishna, V. V. (2015). "Adoption and outcomes of hybrid maize in the marginal areas of India". *Quarterly Journal of International Agriculture*, 54(2): 189-214.
13. Krishna, V.V., Erenstein, O., Sadashivappa, P. and Vivek, B. S. (2014) "Potential economic impacts of biofortified maize in the Indian poultry sector". *International Food and Agribusiness Management Review* 17(4): 123-152.
14. Krishna, V.V. and Veettil, P.C. (2014) "Productivity and efficiency impacts of conservation tillage in northwest Indo-Gangetic Plains". *Agricultural Systems* 127: 126-138.

15. Krishna, V.V., Drucker, A.G., Pascual, U., Raghu, P.T. and Israel Oliver King, E.D. (2013) "Estimating compensation payments for on-farm conservation of agricultural biodiversity in developing countries". *Ecological Economics* 87:110-123.
16. Krishna, V.V., and Qaim, M. (2012) "Bt cotton and sustainability of pesticide reductions in India". *Agricultural Systems* 107: 47–55.
17. Krishna, V.V., Pascual, P. and Zilberman, D. (2010) "Assessing the potential of labeling schemes for *in situ* landrace conservation: an example from India". *Environment and Development Economics* 15: 127-151.
18. Krishna, V.V., and Qaim, M. (2008) "Consumer attitudes towards GM foods and pesticide residues in India". *Applied Economic Perspectives and Policy* 30(2): 233-251.
19. Krishna, V.V., and Qaim, M. (2008) "Potential impacts of Bt eggplant on economic surplus and farmers' health in India". *Agricultural Economics* 38(2): 167-180.
20. Krishna, V.V., and Qaim, M. (2007) "Estimating the adoption of Bt eggplant in India: Who benefits from public-private partnership?" *Food Policy* 32(5/6): 523-543.
21. Tamizheniyan, S., Umesh, K.B., and Krishna, V.V. (2003) "Economics of integrated pest management in rice production in Tiruvarur district, Tamil Nadu." *Agricultural Economic Research Review* 16(1): 12-23.

IV. BOOK CHAPTERS

1. Krishna, V.V., Keil, A. Aravindakshan, S., Meena, M. (2017) "Conservation tillage for sustainable wheat intensification in South Asia." In Langridge P. (ed.) *Achieving sustainable wheat cultivation*, Burleigh Dodds Science Publishing Limited, Cambridge (UK).
2. Krishna, V.V. and Pascual, U. (2009) "Can greening markets help conserve landraces *in situ*?" In Pascual, P., Kontoleon, A., and Smale, M. (eds.) *Agricultural biodiversity and economic development*, Routledge, New York.
3. Dedeurwaerdere, T., Krishna, V.V., and Pascual, U. (2007) "An evolutionary institutional approach to the economics of bioprospection". In Kontoleon, A., Pascual, U., and Swanson, T. (eds.) *Biodiversity economics: Principles, methods and applications*, Cambridge University Press, UK.
4. Krishna, V.V. and Qaim, M. (2007) "Potential socio-economic impacts of Bt eggplant in India". In Ramasamy, C., Selvaraj, K.N., Norton, G.W. and Vijayaraghavan, K., (eds.) *Economic and environmental benefits and costs of transgenic crops: Ex-ante assessment*. Tamil Nadu Agricultural University, Coimbatore.
5. Krishna, V. V., Byju, N. G., and Tamizheniyan, S. (2003) "Integrated pest management in Indian agriculture." In E.B. Radcliff (ed.), *IPM World Textbook*. Hutchison, WD St. Paul, MN.

V. PUBLISHED AS DISCUSSION PAPERS & IN OTHER FORMS

1. Qaim, M., Sibhatu, K.T. and Krishna, V.V. (2016). "Market access and farm household dietary diversity." *Rural* 21, 01: 12-14.

2. Krishna, V., Qaim, M., and Zilberman, D. (2016). "Did transgenic cotton cause varietal diversity erosion in India?" *Information Systems for Biotechnology (ISB) News Report* (March/April 2016), VirginiaTech USA, pp. 1-5.
3. Krishna, V.V., Euler, M., Siregar, H., Fathoni, Z., Qaim, M. (2015) "Farmer heterogeneity and differential livelihood impacts of oil palm expansion among smallholders of Sumatra, Indonesia." EForTS Discussion Paper 13. Goettingen: University of Goettingen, Germany.
4. Euler, M., Krishna, V.V., Schwarze, S., Siregar, H., Qaim, M. (2015) "Oil palm adoption, household welfare and nutrition among smallholder farmers in Indonesia". EForTS Discussion Paper 12. Goettingen: University of Goettingen, Germany.
5. Krishna, V.V., Pascual, U. and Qaim, M. (2014) "Do emerging land markets promote forestland appropriation?" EForTS Discussion Paper Series No. 7. Goettingen: Georg-August University of Goettingen, Germany.
6. Veettil, C.P., Krishna, V.V. and Qaim, M. (2014) "Bt cotton and ecosystem impacts of pesticide reduction". RTG 1666 GlobalFood Discussion Series No. 41. Goettingen: University of Goettingen, Germany.
7. Krishna, V.V., Spielman, D. Veettil, P.C., and Ghimire, S. (2014) "An empirical examination of the dynamics of varietal turnover in Indian wheat". International Food Policy Research Institute Discussion Paper Series, Washington D.C.: IFPRI.
8. Krishna, V.V., Qaim, M., and Zilberman, D. (2014) "Transgenic crops, production risks, and agrobiodiversity". Centre for Development Research Discussion Paper Series on Development Policy No. 186, Bonn: ZEF.
9. Faust, H., et al. (2013). "Assessment of socio-economic functions of tropical lowland transformation systems in Indonesia: Sampling framework and methodological approach". EForTS Discussion Paper Series No. 1. Goettingen: University of Goettingen, Germany.
10. Veettil, P.C. and Krishna, V.V. (2013) "Productivity and efficiency impacts of zero tillage wheat in northwest Indo-Gangetic Plains" Working paper, Institute of Economic Growth, New Delhi: IEG.
11. Ghimire, S., Dhungana, S., Teufel, N., Sherchan, D.P. and Krishna, V.V. (2013) "Biophysical and socio-economic characterization of cereal production systems of Central Nepal". Socio-Economics Program Working Paper No. 9, International Maize and Wheat Improvement Center, Mexico, D.F.: CIMMYT.
12. Krishna, V., Aravindakshan, S., Chowdhury, A., and Rudra, B. (2012) "Farmer access and differential impacts of zero tillage technology in the subsistence wheat farming systems of West Bengal, India". Socio-Economics Program Working Paper No. 7, International Maize and Wheat Improvement Center, Mexico, D.F.: CIMMYT.
13. Krishna, V., Bhatia, M., Teufel, N. and Bashnoi, D. (2012) "Characterizing the cereal systems and identifying the potential of conservation agriculture in South Asia". Socio-Economics Program Working Paper No. 5, International Maize and Wheat Improvement Center, Mexico, D.F.: CIMMYT.
14. Deurwaerdere, T., Krishna, V.V., and Pascual, U. (2005) "Bioprospecting and intellectual property rights: A dynamic approach to economic efficiency". Environmental Economy and Policy Research discussion paper No. 13. 2005. Department of Land Economy. University of Cambridge, UK.

VI. SELECTED CONFERENCE PRESENTATIONS

1. Keynote address, World Plantation Conference and Exhibition, Bali, Indonesia (October, 2017)
2. Land and Poverty Conference 2017, World Bank, Washington DC, 2017
3. Agricultural and Applied Economics Association (AAEA), Boston, US, 2016.

4. Joint University of California Davis & University of Göttingen Workshop, Göttingen, Germany, 2016
5. Invited talk. First Berlin Forum on Indian Agriculture, Berlin, Germany, 2014.
6. World Congress of Environmental and Resource Economics, Istanbul, Turkey, 2014.
7. Plenary speaker. Conference of the International Consortium on Applied Bio-economy Research, Nairobi, Kenya, 2014.
8. European Association of Agricultural Economists Congress at ETH Zurich, Switzerland, 2011.
9. 'Mind the Gap: From evidence to policy impact' conference at Cuernavaca, Mexico, 2011.
10. Triennial Conference, International Association of Agricultural Economics at Beijing, China, August, 2009.
11. Joint Annual Conference, Agricultural and Applied Economics Association and American Council on Consumer Interests at Milwaukee, US, 2009.
12. Joint Annual Conference, American Agricultural Economics Association, the Western Agricultural Economics Association, and the Canadian Agricultural Economics Society at Portland, US, 2007.
13. International Conference on 21st Century Challenges to Sustainable Agri-Food Systems at Bangalore, India, 2007.
14. Biennial Conference of the International Society for Ecological Economics at New Delhi, India, 2006.
15. Deutscher Tropentag at Bonn, Germany, 2006.
16. Triennial Conference, International Association of Agricultural Economics at Brisbane, Australia, 2006.
17. Annual BIOECON Conference on 'Economics and the analysis of biology and biodiversity' at University of Cambridge, UK, 2004.
18. Biennial Conference of International Society for Ecological Economics at Montreal, Canada, 2004.
19. International Conference on Society, Politics, The Economy and The Environment- Implications for socioeconomic progress in 21st century at Bangalore, India, 2001.