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CURRENT EMPLOYMENT: Digital Research Fellow, Institute of Development Studies, University of Sussex

LANGUAGES: English (Fluent), Hindi (Native), French (Intermediate)

THEMATIC EXPERTISE: Karishma's ongoing research examines upgrading in Global Value Chains (GVCs), digitalisation and labour markets and digital trade negotiations, with a focus on development implications, particularly for African and Asian economies. Previously, she was a Research Fellow at the International Economic Development Group, ODI, London and a Visiting Research Fellow at the Centre for Trade and Economic Integration, Graduate Institute of Geneva. She has led and collaborated on a range of projects with international and multilateral organisations like UNECA, Commonwealth Secretariat, UNCTAD, Afreximbank, African Union and the WTO, and has experience working with a diverse range of stakeholders, including high-level policymakers, industry associations, civil society and media. Karishma has held Graduate Teaching roles at the University of Manchester and supervised dissertations on trade, digital development and economic growth.

EDUCATION

- 2015-2018 **PhD Development Policy**, Global Development Institute, University of Manchester
Thesis title: *Upgrading in Global Value Chains; A Firm-level Empirical Analysis of Indian Manufacturing.*
Thesis supervisor: Kunal Sen, Prof. Development Economics.
- 2014 – 2015 **MPhil Economics**, Faculty of Economics, University of Cambridge, UK
Thesis title; *Has India Gained by Linking into Global Value Chains? - A Labour Market Analysis*
Thesis supervisor: Meredith Crowley, Reader in International Economics.
- 2011 – 2014 **BA (Hons) Economics**, Department of Economics, University of Manchester.
- 2009 – 2011 **All India Senior School Examination**, Mother's International School, Delhi, India

RECORD OF EMPLOYMENT

- 2021 - PRESENT **Research Fellow, Digital and Technology Cluster**, Institute of Development Studies, UK
- 2019 – 2021 **Research Fellow, International Economic Development Group**, ODI, London, UK
Project Lead, [E-commerce in Preferential Trade Agreements; implications for African firms](#), in partnership with UNECA.
Team Member, [Disruptive Technologies in Agricultural Value-Chains; Insights from East Africa](#), in partnership with the East African Community and Enhanced Integrated Framework.
Project Lead, [Digitally-enabled economic transformation \(DEET\) and poverty-reduction; evidence from Kenya and Cambodia](#) (FCDO)
Project Lead, *Digital Technologies and Enterprise Growth, funded by MasterCard Foundation*
Team Member, *Assessment of the political economy dimension of digitalisation for international development cooperation* (GIZ)

- 2017 – 2019 **Research Officer, International Economic Development Group**, ODI, London, UK
Project Lead, [Digitalisation and the Future of Manufacturing in Africa](#)
Project Lead, [How to Grow Manufacturing and create jobs in a Digital Economy; Policy Priorities for Kenya](#), in collaboration with the Kenya Association of Manufacturers.
Lead Author on [Skill-needs for the Future](#) and [Preparing Developing Countries for the Future of Work](#), research papers for Oxford University
Project Lead, [Mapping the State of the Digital Economy in the Commonwealth](#)
- 2019 – 2020 **Postgraduate Dissertation Supervisor**, Global Development Institute, University of Manchester
Supervised ten Masters level dissertations on the topics of digital economy, FDI, trade, economic growth and social protection
Graded and provided feedback on twenty dissertations
- 2016 – 2017 **Visiting Research Fellow, Centre for Trade and Economic Integration**, Graduate Institute, Geneva
- 2016 – 2017 **Graduate Teaching Assistant**, University of Manchester
- 2015 – 2017 **Research Assistance, Determinants of State Capacity in Developing Countries, Effective States and Inclusive Development Research Centre (ESID)**, University of Manchester
- 2012 – 2012 **Research Assistant, United Nations Centre for Trade and Development (UNCTAD)**, Geneva

SELECTED PUBLICATIONS

Author (s). (2000) Article title, *Journal article*, no. and issues, town, Publisher

Banga, K., (2021) Digital Technologies and Product Upgrading in Global Value Chains: Empirical Evidence from Indian Manufacturing Firms. *The European Journal of Development Research*, pp.1-26

Banga, K., (2016) "Impact of Global Value Chains on Employment in India", *Journal of Economic Integration*; 31(3):631-673.

Banga, K. and Jain, S. (forthcoming) Manufacturing and regional value chains. South-South Cooperation for Harnessing Digitalization for Africa's Industrialization. UNOSSC and UNECA joint publication.

Banga, K. (forthcoming). Smart Technologies and Changing landscape. *The Routledge Handbook of Smart Technologies*.

Banga R., Banga K. (2020). Digitalization and India's Losing Export Competitiveness. In: Aggarwal S., Das D., Banga R. (eds) Accelerators of India's Growth—Industry, Trade and Employment. India Studies in Business and Economics. Springer, Singapore

Goldar, B and Banga, K. (2020), "Country Origin of Foreign Direct Investment in Indian Manufacturing and Its Impact on Productivity of Domestic Firms" in *FDI, Technology and Innovation*, edited by Springer Nature.

Goldar, B., Banga, R and Banga, K. (2018), “India’s Linkages into Global Value Chains: The Role of Imported Services”, in *Indian Policy Forum 2017*, New Delhi: NCAER.

REPORTS AND WORKING PAPERS

Banga, K., Keane, J., Mendez-Parra, M., Pettinotti, L., and Sommer, L. (2020). and African Trade and Covid-19: The Supply Chain Dimension. ODI working paper 586.

Krishnan, A., Banga, K., Raga, S., Pettinotti, L and Mendez-Parra, M. (2020). Ag-platforms as disruptors in value-chains: evidence from Uganda. ODI AgriTech Report Series.

Banga, K and te Velde, D.W. (2020). Cambodia, Covid-19 and Inclusive Digital Transformation. SET. ODI. London

Banga, K., Rodriguez, A.R. and te Velde, D.W. (2020). Digitally enabled economic transformation and poverty-reduction. SET. ODI. London

Banga, K. (2019) “Digitalisation and product upgrading in Global Value Chains; evidence from Indian manufacturing firms”, UNU-WIDER working paper series.

Banga, K and Willem te Velde, D. (2019), “Preparing the labour market for the digital economy”. Pathways for Prosperity Commission Background Paper Series; Background paper 29 Oxford, United Kingdom.

Banga, K and Balchin, N. (2019), “Linking Southern Africa to South Africa’s Global Value Chains”, UNU-WIDER working paper series 62/2019

Banga, K. and Willem te Velde, D. (2018), “Digitalisation and the Future of Manufacturing in Africa”, SET report, Overseas Development Institute, London

Banga, K. and Willem te Velde, D. (2018), “How to grow manufacturing and create jobs in a digital economy; 10 policy priorities in Kenya”, SET report, Overseas Development Institute, London

Banga, K and Willem te Velde, D. (2018), “Skill needs for the future”. Pathways for Prosperity Commission Background Paper Series; no. 10. Oxford, United Kingdom.

Banga, K. (2017), “Global Value Chains and Product Sophistication-an Empirical Investigation of Indian Firms, CTEI Working Paper No. 2017-15, Graduate Institute Geneva

MEDIA COVERAGE AND BLOG POSTS

‘Robots and automation: how Africa is at risk’, BBC Africa

‘Focus on Africa’, BBC World Services

‘The Jobs The Robots Are Taking Might Not Be The Ones You Think’, Fast Company

‘Kenya’s manufacturers urged to embrace robotics, artificial intelligence’, The Exchange

‘Low digitisation to stunt Kenya’s competitiveness’, The Star

‘Kenyan gov’t, firms urged to embrace innovation to spur manufacturing’, Xinhua

‘African countries can’t industrialise? Yes, they can’. The Conversation.

‘Robots Pose Big Threat to Jobs in Africa, Researchers Warn’. Voice of America.

[3 ways digital technology can help drug makers fight COVID-19](#). World Economic Forum Agenda Blogs.

[Can digital platforms help mitigate agricultural losses from COVID in Uganda?](#) Trade for Development News. EIF.

[COVID-19, Digitalisation and Manufacturing-Led Development in African Countries](#). LSE Blog Series.
[Rooting Africa's COVID-19 recovery: the role of innovation, digital technologies and labour markets](#). AfricaPortal.

SELECTED PRESENTATIONS

- 'Digital Technologies and 'value' Capture in Global Value Chains; Empirical Evidence from Indian Manufacturing Firms'. Global Value Chains Network. Conference of the Society for the Advancement of Socio-Economics (SASE) (2020)
- 'E-commerce protocol in AfCFTA; options for African firms.' Third AU E-commerce Conference (2020)
- 'Commonwealth Digital Connectivity Report'. Commonwealth Forum on technology, trade and Innovation in a Covid world (2020)
- Digitalisation and future of manufacturing in Africa. 'Africa's Employment Perspectives Towards 2040. German Development Institute. Bonn.
- 'Digital trade and industrialisation' at the UNCTAD e-commerce week, 2018, Geneva, Switzerland,
- 'Future of Industrial Work', University of Vienna-UNIDO conference, Vienna, 2019.
- 'Digital Technologies and value capture in global value chains', UNU-WIDER- UNESCAP conference on 'transforming Economies', Bangkok, 2019.
- 'A New Era of Digital Servicification', WTO Public Forum, October 2019
- 'Frontiers in Development Policy' panel at the EU DEVCO Info-point, 2019, Brussels, Belgium.
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