

Curriculum Vitae

Badri Narayanan Gopalakrishnan

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Summary

Economist with about two decades of diverse experience, held the rank of Joint Secretary heading the trade vertical of NITI (National Institution for Transforming India), reporting to the Prime Minister of India, through the Vice Chairman and CEO. Also a former Entrepreneur, Academic and McKinsey Consultant with extensive experience in developing policies/strategies for several countries, corporates and other orgs. Internationally published over 150 research papers and 8 books, in the areas of trade policy, energy, environment, disruptive technologies, agriculture, labor, health and manufacturing, cutting across disciplines, with 5000+ citations in top journals and dozens of articles in popular media outlets, etc. Served as PI as well as hands-on contributor for grant-funded and consulting projects with public organizations like several governments, UN, IMF and the World Bank, top universities like University of Washington Seattle, Purdue University, Harvard University and London School of Economics, as well as leading firms like McKinsey, KPMG and PWC. A particular theme in several projects and papers includes trade policy for sustainable and inclusive development.

Professional Experience

- August 2022-present, **Senior Adviser**, General Authority of Foreign Trade (GAFT), Ministry of Commerce, Kingdom of Saudi Arabia, Riyadh. Advising the Governor of GAFT and the Honorable Minister of Commerce, on the development of trade policy strategies and analytics to study the potential gains and losses from ongoing Free Trade Agreements (FTAs) negotiations.
- August 2022-present, **Courtesy Professor of International Trade**, Department of Ecosystems and Society, Oregon State University, Corvallis, Oregon, USA. Teaching BS/MS/PhD level courses on international economics, supervising and committee memberships of PhD students, research grant proposals and leadership to research projects.
- August 2022-present, **Affiliate Professor of Applied Economics**, Boston College, USA. Teaching MS level courses on policy analytics and developing strategic relationships globally.
- October 2021- present **Fellow (currently) and Lead Adviser and Head (formerly), Trade and Commerce, Strategic Economic Dialogue and International Cooperation and India's Vision for 2047**, NITI (National Institution for Transforming India) Aayog (Chaired by Prime Minister of India - Erstwhile Planning Commission), *Government of India, New Delhi*. Leading policy formulation, inputs and development of strategies in the areas of international trade and commerce, as well as all modes of international cooperation and strategic economic dialogue for India; reporting to the CEO of NITI, coordinating with Ministry of Commerce and Prime Minister's Office; also representing NITI in all matters related to the Union Territory of Puducherry and the state of Tamil Nadu; developing studies and inputs for the negotiations of Free Trade Agreements, WTO negotiations, and restructuring the country's export promotion councils; commissioning and overseeing funded projects to the private and academic institutions; serving as co-Chair of EU-India Taskforce on AI; promoting trade for sustainable and inclusive development; representing government of India in several global forums; Member, Data and Strategy Unit; Head, India's Vision 2047 Development Cell at NITI; Contributing to matters related to economy, finance, trade, commerce, energy and agriculture, as an expert; Developing occasional research and analytical studies for policy.
- December 2015- Present **Affiliate Faculty Member and Senior Economist**, *Center for International Trade in Forestry, School of Environmental and Forest Sciences, University of Washington Seattle*: Guiding PhD students/Post-Doctoral Fellows and Writing several research grants in the intersection of trade, environment, forestry and economic modeling and teaching 5-credit course on Global Trade and Disruptive Technologies at BS/MS level. (Honorary at present)
- April 2015-October 2021 **Founder and Director, Infinite Sum Modelling**: With registered offices in Vancouver, Seattle, New Delhi, Hong Kong and Beijing, this firm is involved in economic model-based consulting, Artificial Intelligence, Business Analytics, Data Science, Machine Learning and Blockchain technologies, for both public and private sector.
- August 2015- October 2021 **Consulting Lead Economist: CGE Modelling and Trade, McKinsey and Company**: Developing economic modeling capacity as the lead modeler and working on several client-facing projects for Fortune500 companies in sectors such as government, logistics, transportation, container shipping, automotive, retail,

chemicals and agribusiness as well as research studies on natural resources and productivity. Topics included alternative fiscal policies to counter revenue losses from oil price reduction, immigrant policies, toll roads, Free Trade Agreements, Foreign Direct Investment, infrastructure spending impact, business strategy planning, investment decisions, etc.

- May 2007- August 2016 **Research Economist** at *Center for Global Trade Analysis, Purdue University, West Lafayette*: Leading member of a team that manages the production of global economic datasets and models used by thousands of researchers/analysts across the world: GTAP (Global Trade Analysis Project) Data Base; PI in funded/independent research and consulting projects; Teaching in short courses on Global Economic Analysis as well as full semester courses; methodological innovations in data/models, respectable publication record as well as policy research/consulting activities and highly commended management style that involved tangible timebound outputs with coordination among hundreds of researchers across the world, many of whom contributed on volunteering basis.
- 2014 **Adjunct Professor of Economics** at *College of Business, Purdue University, Calumet*: Taught a full semester, 3 credit course on International Economics to Undergraduate Seniors in the College of Business.
- 2006-2007 **Fellow** at *Indian Council for Research on International Economic Relations (ICRIER), New Delhi, India*: Served as PI in research projects, mainly on auto industry for the Government of India.
- 2005-2006 **Teaching and Research Assistant in Econometrics** at *IGIDR, Mumbai, India*
- 2003-2005 **Teaching and Research Assistant in Environmental and Development Economics** at *IGIDR, Mumbai, India*: Coordinator of research projects for Governments of Maharashtra (Pollution Control Board: State of the Environment in Maharashtra) and India (Planning Commission: Maharashtra Development Report); Lecturer of a course module on environmental economics.
- 2002 **Assistant Production Manager** at *DGM Textiles, Tirupur, India*: In-Charge of Production of a new unit involved in manufacturing knitwear exported to EU, US and Canada, reporting to the CEO of the company.

Selected Consulting and Advisory Experience (including pro-bono board memberships)

2022-present, **Member, Joint Working Group on Anti-Microbial Resistance**, Center for Global Development, Washington DC, USA.

2023-present, **Advisory Board Member**, Circular Economy Innovation Lab, Copenhagen, Denmark.

2022-present, **Advisory Board Member**, Trade Promotion Council of India, The Dialogue, Global Trade Observer New Delhi, India.

2021-present, **Advisory Board Member**, Washington State India Trade Relations Action Committee, Seattle, USA.

2021-present, **Advisor**, Global Indian Trade and Cultural Centre, New York, USA.

2021-present, **Advisor**, MSME Business Forum India, New Delhi, India.

2019-present **Senior Fellow**, *European Center for International Political Economy, Brussels*.

2020-present **Non-Resident Fellow**, *CSEP and NCAER, New Delhi*.

2021-present **Advisory Board Member**, Applied Economics Program, Boston College, Massachusetts, USA

2020-2021, **Consultant**, The Economist Intelligence Unit, London, UK.

2020-present, **Consultant**, International Labour Organization, Geneva, Switzerland.

2020-2021, **Consultant**, Overseas Development Institute, London, on the economic modeling capacity development in Dhaka, for the government and industry associations.

2020-2022, **Consultant**, United Nations Conference on Trade and Development, Geneva, on the economics of pandemics and fiscal sustainability

2019-present, **Consultant**, International Rice Research Institute, Manila, on several projects on the economics of trade, food policy, emissions and sustainable development

2019-2022, **Consultant**, United Nations Development Programme, Cairo, on Arab Customs Union's economic impact and exports development in Lebanon

2019-present, **Consultant**, Asian Development Bank, Manila on several trade and global pandemic related projects

2019, **Consultant**, EU Trade Related Assistance for Mongolia (TRAM) and Ministry of Foreign Affairs, Government of Mongolia, UlaanBataar.

2019-present, **Member, Advisory Board**, *HR Consulting at Cornell University, Ithaca NY*.

2019-present, **Member, Board of Directors**, *British American Business Connections, Seattle USA*

2018-present, **Advisor on Blockchain and other disruptive technologies'** economics and strategy (several startups)

2017-2019, **Consultant** for a co-op project on agricultural trade policy, for USDA-ERS, USA.

2017-2020, **Consultant: Data Science** at *Harvard University Beth Israel Medical Center, MA*: A project on fundraising strategies

2017-2020, **Consultant: Economic Research** at *United Nations Economic and Social Commission for Asia Pacific*.

2016-present, **Consultant** at *United Nations Economic Commission for West Asia*: Development of datasets for North African and West Asian countries in GTAP Data Base, analysis of pandemic impact, etc.

2015-present **Advisor**, *ARTNeT (Asia-Pacific Research and Training Network on Trade), United Nations Economic and Social Commission for Asia and the Pacific*, Bangkok, Thailand

2015-2019; 2023-present, **Consultant** at *Food and Agricultural Organisation, Rome*: Pursued a research project on Russia's food import bans; another project on trade, domestic support, distortions and global food security.

2014-2017 **Consultant** at *International Institute of Sustainable Development, Canada*: Pursued research projects on modeling the pluri-lateral trade agreements and on NAFTA Renegotiations.

2014-2015 **Consultant** at *International Center for Trade and Sustainable Development, Geneva*: Pursued a research project on modeling the role of tariffs in global manufacturing sectors.

2014-present **Consultant** at *World Health Organisation, Geneva*: Pursued research projects in the area of tobacco control policy modeling and presented in a workshop in WHO-Geneva.

2014-present, **Consultant** at *The Commonwealth Secretariat, London*: Several projects on impact of free trade agreements among Commonwealth countries, trade facilitation and governance.

2014-2016 **Member, Board of Directors and Vice-President, Finance and Fund-raising**, *Young Professionals Chronic Diseases Network, Harvard Global Equity Initiative*, Boston, Massachusetts.

2013-present **Fellow**, *South Asian Network of Economic Modeling*, Dhaka, Bangladesh

2012-2022 **Short-Term Consultant** at *The World Bank Group, Washington DC*: Presented in a World Bank workshop in India on environmental policy tools and models; Pursued research projects in the areas of modeling water scarcity and agri-business sector in India and rest of South Asia as well as developing models and datasets to address many economic issues in African countries, green trade-gender nexus and trade-environment-employment linkages.

2012-2021 **Consultant** at *The European Commission, Brussels*: Pursued several research projects in the areas of modeling of EU-Andean trade pact, development of datasets and models of public procurement, domestic support, EU-Australia-NewZealand FTA, EU-MERCOSUR FTA, EU-Mexico FTA, etc., through London School of Economics and CEPR, London

2012 **Consultant** at *Price WaterHouse Coopers, Germany*: Provided consulting services to perform a model development to analyze the energy market deregulation in Turkey.

2006-07 **Participating Member**, *Steering Committee for Industry, Eleventh Plan, Planning Commission*, Government of India, New Delhi, India.

Educational Qualifications

- 2006: Ph.D. in *Development Studies*, Indira Gandhi Institute of Development Research (IGIDR), Mumbai.
- 2002: Bachelor of Technology (B.Tech) in *Textile Technology*, PSG College of Technology, Coimbatore.

Areas of Research Interest: Applied Economics, Management and Policy/Strategy, Blockchain Economics and Strategy, Artificial Intelligence, Machine Learning, Health Economics, Applied Econometrics/Time series, Data Mining, Demand Analysis, International Trade, Industrial Economics, Labor Economics, Productivity Analysis, Computable General Equilibrium (CGE) and simulation modeling, Environmental Economics, Development, Network Science.

- Number of Refereed Publications (including reviews and book chapters): 150 in journals such as **Nature Communication, British Medical Journal: Tobacco Control, Agricultural Economics, Energy Economics, Economic Modelling, Applied Economics, Applied Economics Letters, Information Technology and management, Review of Regional Studies, Economic Systems Research, Journal of Economic Structures, Journal of Food and Agricultural Economics, Journal of Applied Economic Research, Engineering Design Graphics Journal, Vision and Economic and Political Weekly**; Books: 7;
- Google Scholar Citations from all publications: 5032; h-index:19; i10-index: 41. Citations appeared in outlets such as **American Economic Review, Proceedings of National Academy of Sciences, The Economist, Nature, Economic and Political Weekly**, etc. Peer reviewer for dozens of journals and on the editorial board of a few.
- Media Coverage: Financial Times, The Economist, New York Times, BBC, MoneyControl, South China Morning Post, Russian Times, Yahoo News, Economic Times, Swarajya, The Hindu, Indian Express, etc.
- 100+ presentations/papers in international conferences/proceedings; 100+ more in workshops and invited seminars; Sole/Joint PI for over 100 projects.
- Citations for GTAP Data Base5 from 2009 after the publication of version 7 by Narayanan and Walmsley, 2008: 12000+
- Peer reviewer for 15 international journals, editorial board member for two of them
- Over 40 articles in popular media outlets like Economic Times, South China Morning Post, Financial Express, Business Standard, Moneycontrol, Businessline, The First Post, Swarajya, The Daily Guardian, American Bazaar, etc.

Fellowships and Academic/Other Honours

- GTAP Research Fellow (2017-2020) an Honor awarded for significant contributions to the field of global economic analysis.
- Fellowship (2002-2007) to pursue PhD from Indira Gandhi Institute of Development Research, Mumbai
- Fellowship with an invitation to participate in the 'Meeting with Nobel Laureates in Economics' at Lindau, Germany, during 1-4, September 2004, for research discussion with 11 Nobel Laureates in Economics (Awarded to two PhD students from India, based on rigorous tests and interviews).
- Fellowship to pursue a course titled 'South Asia Short Course on Global Trade Analysis' held from 28th November 2005 for three months, organized by Purdue University, USA.
- Listed as a member of International Biographical Centre, Cambridge, England, among the "Leading Professionals of the World 2013", 26th, 27th, 28th and 35th Editions of *Marquis Who's Who in the World* (2009, 2010, 2011 and 2018), 2008-09 Honors Edition of Madison's Who's Who Among Executives and Professionals.
- 2015 IATRC (International Agricultural Trade Research Consortium) Meetings: One among the four commissioned papers on Trade Policy, selected based on a worldwide competition.
- Multiple grants for presenting papers/seminars/lectures/meetings in **27 countries across the world: Australia, Bangladesh, Belgium, Canada, Chile, China, Colombia, Ethiopia, Finland, Germany, India, Italy, Japan, Mexico, Mongolia, Saudi Arabia, Senegal, Spain, South Korea, Sri Lanka, Sweden, Switzerland, Thailand, Turkey, United Arab Emirates, United Kingdom and USA**; online in 5 countries: Cyprus, New Zealand, Pakistan, Russia & Philippines.

Teaching Experience

- December 2023 (forthcoming): A National level Course funded by Ministry of HRD, India, on "Artificial Intelligence and International Trade Economics" at IIT Hyderabad, India.
- Fall 2023: "Economic Modeling for Policy Analytics". Boston College, Applied Economics MS Program.
- November 2021: Guest Lectures on Machine Learning for Business Strategy, for MBA Students at IIT Jodhpur
- October 2021: Guest Lecture on Applied Microeconomics for Business Strategy, for MBA Students at MDI Gurgaon

- January-May 2021: A full-semester graduate level course on “Global Trade and Disruptive Technologies” for Masters in Public Policy Program, Chinmaya University, India.
- March 2021: Guest Lecture on Modeling Agricultural Policies for a graduate course on Food Policy in a Changing World (SPEA v550), Indiana University, Bloomington, USA.
- May 2020: Guest Lecture on Analytics and Economic Modelling for Fashion Industry. NIFT New Delhi India.
- February-March 2020: Trade Modeling for Policy Makers and Industry Leaders, Dhaka, Bangladesh.
- Autumn 2019: A five-credit undergrad level course on “Global Trade and Disruptive Technologies” for the Jackson School of International Studies, University of Washington Seattle (JSIS 267).
- January 2019: One day workshop on economic modeling for researchers at CEEW (Center for Energy, Environment and Water) New Delhi
- January 2019: A Workshop on Artificial Intelligence, Machine Learning, Business Intelligence, Data Visualization and Economic Modeling, for entrepreneurs and government officials, in All India Management Association New Delhi and National Institute for Micro Small and Medium Enterprises Hyderabad.
- September 2018: A Course on Global Economic Analysis, for the Economic Modeling Division, International Monetary Fund, Washington DC.
- February 2018: A Workshop on Global Economic Modeling, Center for International Trade in Forestry Products, University of Washington.
- December 2017: A Workshop on Analysis and Modeling of Global Economic Issues in Indian Context at NIT Trichy, funded by GIAN: Global Initiative for Academic Network, Government of India.
- July 2017: Lectures on Computable General Equilibrium Modelling at IIT Delhi.
- Spring 2017: Lectures on Economics of Health Policy to students pursuing Masters in Nutrition and Public Health at Bastyar University.
- Fall 2014: ECON 43400: International Trade at Purdue University Calumet.
- Spring 2015: Research Guide for a course on Data Visualization for MS Data Science students at Indiana University Bloomington, for two groups of students, to visualize trade data.
- 2007-2017: Faculty at the Annual Short Courses on Global Economics Analysis at Purdue University (2007, 2008, 2010, 2011, 2014 and 2015), UNESCAP, Bangkok (2009), UNECA, Ethiopia (2011), George Mason University, USA (2012) and Bahcesehir University, Turkey (2013).
- 2011 and 2013: Guest Lecturer in the course on *Applied General Equilibrium Analysis* offered by Prof. Tom Hertel in the Department of Agricultural Economics, Purdue University (AGEC 618)
- 2007-2017: Co-developer of and lecturer in the courses on *Contributing Input-Output Tables to GTAP* at Purdue University (2007) and Finland Ministry of Economic Affairs, Helsinki (2008) and UNECA, Ethiopia (2011).
- 2005-06: Teaching Assistant, Econometric Applications course taught to the graduate students at IGIDR
- 2004-05: Taught a module on Environmental Economics to the graduate students at IGIDR
- Spring 2015: IND 701/15b: International Agricultural Trade and Policies. Bakke Graduate University, Seattle, Washington (Offered Online).
- Spring 2015: International Economics. Amrita School of Business, Coimbatore, India (Offered Online).
- December 2014: Lectures on Computable General Equilibrium Modeling, Quality Improvement Workshop, Indian Institute of technology, Kanpur (Offered Online)
- October 2014: Friday University Course on Inter-disciplinary Approaches to regional Economic Development, Purdue University Calumet.

Selected Papers in Refereed Journals

1. Neha Qureshi, Aditya KS, Krishnan M and Badri Narayanan (2023). Putting the Cart before the Horse: Dal Lake's Woe. **Lakes and Reservoirs Research and Management**. <http://dx.doi.org/10.1111/lre.12438>
2. Sachin Sharma, Badri Narayanan, Adeet Dobhal and Raihan Akhter (2023). Evaluating the Reasons for India's Withdrawal from RCEP: A General Equilibrium Analysis. **Indian Economic Journal** 21(3) <https://doi.org/10.1177/00194662231159847>
3. Samarth Khurana and Badri Narayanan (2023). India-EU GVC Integration: An Economy-wide Analysis. **ASERC Journal of Socio-Economic Studies**.
3. Ferry, J., Badri Narayanan & A. Mayoral (2022). The impact of a U.S.–U.K. free trade agreement on workers: a CGE model with worker displacement. **Business Economics**. <https://doi.org/10.1057/s11369-022-00268-1>
4. Dayo Ojaleye and Badri Narayanan (2022). Identification of Key Sectors in Nigeria - Evidence of Backward and Forward Linkages from Input-Output Analysis. **Socioeconomic Challenges**, 6(1), 41-64.
5. Isha Jaswal, Badri Narayanan and Shanu Jain (2022). Can the post-Covid FDI boost the Indian Economy? **Vision: The Journal of Business Perspective**. <https://doi.org/10.1177/09722629211066286>
6. Arghya Nandi and G. Badri Narayanan. (2022). *US 100 Day Reviews Under Executive Order 14017: A Critical Evaluation in the Context of India*. **Journal of Development Economics and Management Research Studies**. 9(11): 1-9.

7. Sunil Madan, Karim Maredia and Badri Narayanan (2021). *Which Cloud Farmer Should Hope for Resilient and Sustainable Agriculture?*. **IEEE CS R10 Newsletter** 1(5): 1-4.
8. A. Yadav and B Narayanan (2021). *Do Personality Traits predict biasedness while making investment decisions?* **International Journal of Accounting and Finance Review**.
9. Arghya Nandi and G. Badri Narayanan. (2021). *An Economywide Analysis of Potential Impact of the New US Supply Chain Policies*. **ASERC Journal of Socio-Economic Studies**. 4(2): 116-125.
10. Alexander Ageev, Valery Makarov, Albert Bakhtizin, Nafisa Bakhtizina, Badri Narayanan, Jevgenijs Steinbuks and Bulat Khabariev (2021). Financial Flows Matrix – A Tool for Implementing the Country's Economic Policy. **Economic Strategies**. <https://doi.org/10.33917/es-4.178.2021.22-35>
11. Ravi Kumar, M Krishnan, Praduman Kumar, G Badri Narayanan, Swadesh Prakash and Dhandhe Kumar (2021): Estimation of Demand for Fish in Delhi and NCR, India. **Socioeconomic Challenges** 5(4): 46-54.
12. Jain V., Tewary T., Narayanan GB. (2021) Unlocking Technology Adoption for a Robust Food Supply Chain: Evidence from Indian Food Processing Sector. **HSE Economic Journal**: 25(1): 147-164
13. Karthikeyan, P., N Mani, M. Manikandan and Badri G Narayanan (2021). *Forecasting Inflation Rate in India*. **Finance India**. 35(4): 1209-1220.
14. Aditi Sawant, Badri Narayanan and Adhithya Balasubramanian (2021). Education During the Pandemic: An Instructor's Perspective from Maharashtra. **Indian Journal of Applied Economics and Business** 3(1): 33-41.
15. K. Akhila, Naga Sindhuja, Senthil Vinayagam, M Krishnan, Yashavanth B.S. and G. Badri Narayanan. (2021). *Growth, Instability and Trends in Area, Production and Productivity of Coconuts in India*. **ASERC Journal of Socio- Economic Studies** 4(2): 151-63.
16. Badri Narayanan, Rahul Sen, Sadhana Srivastava and Somya Mathur (2021). *A method to analyze the sectoral impact of Fiscal support for COVID-19 affected economies: The case of Oceania*. **MethodsX**. doi: 10.1016/j.mex.2021.101293 (featured by WHO literature on Covid).
17. Mohanty, Ghanashyama, Dwijendra Dwivedi and Badri Narayanan (2021). *The Efficacy of Fiscal Vs Monetary Policies in the Asia Pacific Region: The St Louis Equation Revisited*. **Vision: The Journal of Business Perspective**. <https://doi.org/10.1177/09722629211054148>
18. Narayanan, Badri G., Sumathi L Chakravarthy, Tavishi Tewary and Vrandra Jain (2021). *Isolating China: Deglobalisation and Its Impact on Global Value Chains*. **Foreign Trade Review**. <https://doi.org/10.1177/00157325211045463>
19. Bengoa, Marta, Somya Mathur, Badri G. Narayanan and Hanna Norberg (2021). *Environmental Effects of the African Continental Free Trade Agreement: A CGE Approach*. **Journal of African Trade**. Available Online July. <https://doi.org/10.2991/jat.k.210719.001>
20. Narayanan, Badri and Somya Mathur (2021). *The Potential Impact of GHG Reductions on Air Pollution in India*. **Journal of the Asia Pacific Economy** 26(2): 344-60.
21. Padma Iyengar, Michael Kieviet and Badri Narayanan (2021). *Economic Implications of AI Driven Functional Safety Improvements*. **IEEE CS R10 Newsletter** 1(4): 1-4.
22. Ray, Amlan, MG Deepika and Badri Narayanan (2021). *Analysis of India's Competitive Position in RCEP*. **Vision: The Journal of Business Perspective** 25(3): 336-49.
23. Doifode, Akash and Badri Narayanan (2021). *Trade Effects of US China Tariff Hikes: An Econometric Analysis*. **Artha Vijnana** 63(2): 183-93.
24. Deepika Wadhwa and Badri Narayanan (2021). *Role of Digitization in Economic Revival after Covid-19*. **IEEE CS R10 Newsletter** 1(2): 1-4.
25. Ashwasti Khamari, Badri Narayanan, Anwesha Mohanty, Balram Bhusan, and Anand Pandey (2021). *Impact of Covid-19 on the Rural Economy: Evidence from a Village in Uttar Pradesh*. **Journal of Development Economics and Management Research Studies** 8(10): 29-45. <https://www.cdes.org.in/wp-content/uploads/2021/10/Ashwasti-Khamari-Badri-Narayanan-Anwesha-Mohanty-Balram-Bhusan-and-Anand-Pandey.pdf>
26. Amlan Mohanty, Saptadeep Biswas, Balram Bhushan, Anand Pandey, and Badri Narayanan (2021). A Study of Social Behaviour in the context of COVID-19 in a village named Ghatampur, Bhadohi district in Uttar Pradesh . **Journal of Development Economics and Management Research Studies** 8(10): 50-61.
27. Aditya Sharma, Balram Bhusan, Anand Pandey, and Badri Narayanan (2021). A Study on the Impact of COVID-19 on the government policies in the Chatarshahpur Village, Uttar Pradesh . **Journal of Development Economics and Management Research Studies** 8(10): 85-96.
28. G. Badri Narayanan, Rojalin Patri and Sangeetha G (2021), "Trade and Access to Credit in Import Destinations: Evidence from India's Exports to Africa", **Journal of Quantitative Finance and Economics** 3(1): 1-9.
29. Divyakshi Khale, P Pradhan, B Bhusan, A Pandey and Badri Narayanan (2021). *Outbreak of Covid-19 and its Impact on Public and Mental Health in Dulabipur Village, UP, India*. **International Journal of Innovative Technology and Research**. July.
30. Engström, G., J Gars, C Kiran, R Cael, T Lindahl, Badri G Narayanan and D Spiro (2020). *Carbon pricing and Planetary Boundaries*. **Nature Communication** 11, 4688. <https://doi.org/10.1038/s41467-020-18342-7>
31. Mohakud, S., A Singh, S Jagadale, A Pandey and Badri G Narayanan (2020). *Financial Inclusion in Rural India: A Case Study of Mahuapur*. **DME Journal of Management** 1(1): 1-15.
32. Mohanty, R., A. Sarangi, B Bhushan, A Pandey and Badri G Narayanan (2020). *Water Conservation Techniques in Rural India: A Case Study of Bhikharirampur, UP*. **International Journal of Innovative Technology and Research**. July.

33. Dwijendra Dwivedi, Adhithya Balasubramanian and Badri G Narayanan (2020). *Emissions, Temperature and Economic Growth: An Empirical Analysis of Europe*. **EPRA International Journal of Multidisciplinary Research**. 6(6): 382-7.
34. Debashish Sahu, Dhruv Sawhney, Anand Pandey and Badri G Narayanan (2020). *Barriers in Improving Education Quality: A Case Study of Rural India*. **International Journal of Innovative Technology and Research**. June (Bagged the best paper award)
35. Abhinav Saravanan and Badri G Narayanan (2020). *The Role of Disruptive Technologies in Health and Sustainability*. **International Journal of Innovative Technology and Research**. June
36. Somya Mathur and Badri G Narayanan (2020). *Analysis of Trade Liberalization of the Blue Economy in Indian Ocean Rim Association*. **Journal of Indian Ocean Rim Studies** 3(1): 76-123. Jan-June.
37. Sanjeet Mahapatra, Anand Pandey and Badri Narayanan (2020). *Socio-economic Analysis of Effectiveness of Implementation of a Employment Guarantee Scheme at Local Level: A Study of a Village in India*. **Socio-economic Challenges** 4(2): 23-30, June.
38. Agrawal, M, Pradhan, S, Pandey, A and Narayanan, B (2020). *Barriers in Implementation of Sanitation Projects: A Case Study of Open Defecation Free India*. **Journal of Development Economics and Management Research Studies** 4(4): 1-17, April-June.
39. Narayanan B, and Aitharaju, R (2020). *Digital Transformation and Sustainability: A Post-COVID Impact Analysis of Global Businesses*. **International Journal of Innovative Technology and Research**, May.
40. Pandey R, Subhankar GP, Jagdale SR, Pandey A, Narayanan B, Kanvinde R (2020). *Causes of Undernourishment: A Field Study in Rural India*. **Advances in Agriculture, Horticulture and Entomology** 2(3): 1-17, April-June.
41. Narayanan B, and Seshadri, S (2020). *Estimating Potential Operational Cost Savings by Migrating On-Premises to Cloud: A Study using Amazon TCO*. **International Journal of Innovative Technology and Research**, May.
42. Sami-ul Haque, Ken Foster, Roman Keeney, Kathryn Boys and Badri Narayanan. (2019) *Output and Input Bias Effects of US Direct Payments*. **Agricultural Economics** 50(2):229-236.
43. Jean Balie and Badri Narayanan. (2019). *What Should be the Focus of Agricultural Policy Reforms in Sub-Saharan Africa? A CGE Analysis*. **Margin: Journal of Applied Economics** 13(4): 401-35.
44. Manitra A. Rakotoarisoa, Sangeeta Khorana and Badri Narayanan. (2019). *Trade Liberalization - Labor Productivity Nexus: The Case of Sub Saharan Africa*. **Socio-Economic Challenges** 3(1): 5-26.
45. Kenichi Kawasaki, Badri Narayanan, Houssein Guimbard and Arata Kuno. (2019). *Analysis of the Role of Tariff Concessions in East Asia*. **Margin: Journal of Applied Economics** 13(2): 141-67.
46. Manikandan M., Mani N., Karthikeyan P., and G. Badri Narayanan. (2019). *Relationship between Money Supply, Output and Price Level in India*. **ASERC Journal of Socio-Economic Studies** 2(1): 13-29.
47. Niladri Das, Rohit Sharma, Anand Pandey and Badri Narayanan (2018). *The Existence of Carpet Industry in Bhadohi, India*. **Trends in Textile Engineering and Fashion Technology**: 3(3): DOI: 10.31031/TTEFT.2018.03.000563.
48. Veena Jha, Badri Narayanan, Deepika Wadhwa and Jean Tesche (2018) . *Economic and Environmental Effects of reduction in smoking prevalence in Tanzania*. **British Medical Journal: Tobacco Control**: November 2, doi: 10.1136/tobaccocontrol-2018-054635.
49. Narayanan, G. Badri (2018). *Technical and Industrial Textiles in India: An Economic Overview*. **Trends in Textile Engineering and Fashion Technology**: 1(1): DOI: 10.31031/TTEFT.2018.01.000503.
50. Narayanan, G. Badri (2018). *Global Economic Scenario of Technical and Industrial Textiles*. **Trends in Textile Engineering and Fashion Technology**: 1(1): DOI: 10.31031/TTEFT.2018.01.000504.
51. Terrie Walmsley, Angel Aguiar and Badri Narayanan. (2018). *Building a global database: consequences for the national Input Output data*. **Economic Systems Research**.
52. Jeff O'Hara, Badri Narayanan and Kranti Mulik. (2018). *Impacts of Hypothetical Fruit and Vegetable Consumption Changes in North America*. **International Journal of Food and Agricultural Economics**.
53. Jean Balie, Anna Strutt, Signe Nielsen and Badri Narayanan. (2018). *Infrastructure Investments for Improved Market Access in Sub Saharan Africa*. **African Journal of Agricultural and Resource Economics**.
54. Sangeetha Gunasekar, Rojalin Patri and Badri Narayanan (2018). *International Tourist Arrival in India: Impact of Mumbai 26/11 Terror Attack* **Foreign Trade Review** 53(1): 1-17.
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Professional Memberships

National Association for Business Economics: 2017 -Present
 International Input Output Association: 2015 - Present
 Association of Scientists of Indian Origin in America (ASIOA): 2015 - Present
 Agricultural and Applied Economics Association (AAEA): 2011 - Present
 American Economic Association (AEA): 2011 - Present
 International Agricultural Trade Research Consortium (IATRC): 2011 - Present
 Institute of Electrical and Electronics Engineers (IEEE): 2014 - 2016
 The Indian Econometric Society (TIES): 2004 - 2006.

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