



Curriculum Vitae

Lakhwinder Singh

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Date of Birth : July 10, 1960.

Marital Status : Married.

Recent Position Held: Professor and Head, Department of Economics, and Coordinator, Centre for Development Economics and Innovations Studies (CDEIS), Punjabi University.

Academic Administrative Experience:

- (i) Associate Dean Research, Punjabi University, December 2018 to December 2020.
- (ii) Head, Department of Economics, Punjabi University, July 2016 to June 2019.
- (iii) Director, Directorate of International Students, Punjabi University, July 2017 to July 2018.
- (iv) Founding and First, Coordinator, Centre for Development Economics and Innovation Studies (CDEIS), Punjabi University, July 2012 to December 2020.

Honorary Academic cum Administrative Positions:

- (i) Vice President, Indian Society of Labour Economics, 2020-2021.
- (ii) Vice President, Indian Society for Agricultural Development and Policy, India-2012-14.
- (iii) Member, Board of Management, International Joseph A. Schumpeter Society, Augsburg, Germany, 2018-2021.
- (iv) Secretary, INDIALICS-An Indian Chapter of Globelics since 2012.
- (v) Executive Member, The Indian Econometric Society-2013-2015.
- (vi) Member Syndicate, Punjabi University, Patiala January 1, 2019 to June 29, 2019.
- (vii) Member Senate, Punjabi University, Patiala, January 1, 2019 to June 29, 2019.
- (viii) Member, Task Group V Economic Governance, Punjab Governance Reform Commission, Government of Punjab, Chandigarh 2009-2011.
- (ix) Member Senate, L M Thapar School of Management, Thapar University 2016 to 2020.

- (x) Member, School Board of Economics, Management and Information Sciences, North-Eastern Hill University, Shillong, Meghalaya, September 9, 2019 to September 8, 2021.
- (xi) Expert Member, Wetlands Authority, Government of Punjab, Chandigarh, 2018-2019.
- (xii) Member, UGC-SAP(DRS-III) Advisory Committee, School of Economics, Devi Ahilya University, Indore, 2015 to 2020.

Editorial Position:

- (i) Founding Editor, Millennial Asia: An International Journal of Asian Studies, SAGE Publications, India. 2010 to date. MLA is indexed in SCOPUS and ESCI.
- (ii) Member, Editorial Advisory Board, African Journal of Science, Technology and Development, Routledge-Taylor and Francis Group, 2011 till date.
- (iii) Member, Scientific Board, Innovation and Development, Routledge-Taylor and Francis Group, 2010 till date.
- (iv) Guest Editor, Seoul Journal of Economics, Vol. 27, No. 1, 2014, South Korea,

Referee Work for Journals:

1. Economics of Innovation and New Technologies;
2. Innovation and Development;
3. Research Policy;
4. Seoul Journal of Economics;
5. African Journal of Science, Technology, Innovation and Development;
6. International Journal Technology Management and Sustainable Development;
7. Industrial and Corporate Change;
8. Asian Economic Journal;
9. Journal of Chinese and Business Studies;
10. Emerging Markets Finance and Trade;
11. Energy Policy;
12. Journal of Evolutionary Economics; and
13. Indian Journal of Labour Economics

Visiting Positions:

1. Visiting Research Fellow, Seoul National University, South Korea, 2002.
2. Ford Foundation Post-Doctoral Fellow, Department of Economics, Yale University, USA, 1993-94.

Awards:

- (i) **Asia Fellow**, Asia Fellows Programme, **The Institute of International Education, New York branch office Bangkok (Now Asian Scholarship Foundation)** 2001-2002.
- (ii) Ford Foundation **Post Doctoral Fellowship** in Economics, 1993-94.
- (iii) UGC Research Fellowship for M.Phil./Ph.D., 1984-88.
- (iv) National Merit Scholarship for M.A. Economics, 1981-83.
- (v) State Merit Scholarship for B.A. Hons. School in Economics, 1979-81.

Consulting experience:

Key consulting assignments undertaken:

Sr. No.	Client/Organization's Name	Nature of Assignment	Duration of Assignment

1.	United Nations University, UNU-WIDER, Helsinki, Finland	To complete research work on “Innovations, high-tech trade and industrial development”	21 December 2005 to 28 February 2006
2.	Federal University Jose Bonifacio, Rio de Janeiro – Brazil	National Innovation System of BRICS Countries - Innovation Systems and Inequality – The Experience of India	January 05, 2009 to April 30, 2009

Educational Qualifications:

Year	Degree	Institution	Division
1993-1994	Post-Doctorate Non Degree	Yale University	-
1984-1990	Ph.D. Economics	Punjabi University	-
1983-1984	M. Phil. Economics	Punjabi University	'A' Grade
1981-1983	M.A. Economics	Punjabi University	First
1978-1981	B. A. Hons School in Economics	Punjabi University	First

Employment History

Year	Position	Institution
2006- 2020	Professor	Punjabi University
1998-2006	Reader/Associate Professor	Punjabi University
1995-1998	Lecture (senior scale)	Punjabi University
1994-1995	Senior Economist	National Institute of Public Finance and Policy, New Delhi
1989-1995	Lecturer	Desh Bandhu College, University of Delhi
1988-1989	Lecturer	Punjabi University

Publications:**Books Published:**

1. **Covid-19 Pandemic and Economic Development: Emerging Public Policy Lessons for Indian Punjab**, Palgrave Macmillan, Singapore, Forthcoming 2021 (Jointly edited with Sukhpal Singh and Kamal Vatta)
2. **Agriculture Innovation System in Asia: Towards Inclusive Rural Development**, Routledge, London, New York, New Delhi (jointly edited with Anita Gill), 2020
3. **Agrarian Distress and Farmer Suicides in North India**, Routledge-Taylor and Francis Group, London, New York and New Delhi, Second edition 2020 and first edition 2016 (Jointly with K S Bhangoo and Rakesh Sharma).
4. **Economic Transformation of a Developing Economy: The Experience of Punjab, India**, Springer Nature, Singapore, 2016 (Jointly edited with Nirvikar Singh).
5. **Technology, Innovations and Economic Development: Essays in Honour of Robert E. Evenson**, (Jointly edited with K J Joseph and Daniel K N Johnson) SAGE Publications, New Delhi, London and Los Angles, 2015.
6. **Punjab's Economic Development in the Era of Globalisation**, LG Publishers and Distributors, Delhi 2014 (Jointly edited with Inderjeet Singh and Sukhwinder Singh).
7. **Economic and Environmental Sustainability of the Asian Region** (Jointly edited with Sucha Singh Gill and Reena Marwah) Routledge, London, New York and New Delhi, 2010 and 2016 (Paper Back edition).
8. **Economic Cooperation and Infrastructure Linkages between Two Punjabs: Way Ahead** (Jointly with Sucha Singh Gill et.al) CRRID Publications, Chandigarh, 2010.
9. **Status of Local Agricultural Labour in Punjab**, The Punjab State Farmers Commission, Government of Punjab, Mohali, 2007 (Jointly with R. S. Ghuman and Inderjeet Singh)

PUBLISHED RESEARCH PAPERS: JOURNALS AND EDITED VOLUMES

1. Fiscal Policy and Private Investment in Developing Economies: Evidence from Ethiopia, **African Journal of Science, Technology, Innovation and Development**, 2021 (forthcoming with Fekadu Mekonnen Bedhiye).
2. Covid-19 Pandemic and Asian Experience, *Millennial Asia: An International Journal of Asian Studies*, Vol. 11, No. 3, 2020 (with Sukhpal Singh).
3. Global Spread and Socio-Economic Determinants of COVID-19 Pandemic, **Seoul Journal of Economics**, Vol. 33, No. 4, 2020 (With Varinder Jain).
4. The Deadly Cost of Informal Lending: An Economic Model of Agrarian Suicides in Punjab, **Journal of Development Studies**, 2020 communicated (With Daniel Johnson et al).
5. Agriculture Innovation System for Inclusive Rural Development in Asia: An Introduction, in Lakhwinder Singh and Anita Gill (eds.) **Agriculture Innovation System in Asia: Towards Inclusive Rural Development**, Routledge, London, New York and New Delhi, 2020 (with Anita Gill).
6. Agriculture Innovation System and Productivity Growth Across North Indian States, in Lakhwinder Singh and Anita Gill (eds.) **Agriculture Innovation System in Asia: Towards Inclusive Rural Development**, Routledge, London, New York and New Delhi, 2020 (with Anita Gill and Rakesh Sharma).
7. Asia's Economic Development Experience in the 21st Century, **Millennial Asia: An International Journal of Asian Studies**, Vol. 10, No.3, 2019 (with Sukhpal Singh and Reena Marwah)
8. Short run and Long run Technical Efficiency Analysis: Application to the Ethiopian Manufacturing Firms, **Seoul Journal of Economics**, Vol. 32, No. 4, 2019 (Jointly with Yismaw Ayelign)
9. Skill Formation, Competitiveness and Industrialization: The South Asian Experience, in Sachin Chaturvedi and Sabayasachi Saha (eds.) **Manufacturing and Jobs in South Asia: Strategy for Sustainable Economic Growth**, Springer Nature, Singapore, 2019.
10. Indian Economic Development Under Globalization, **Millennial Asia: An International Journal of Asian Studies**, Vol. 9, No.3, 2019 (with Sukhpal Singh).
11. Interconnection between R&D and Industrial Production Structure: The Experience of India, **Millennial Asia: An International Journal of Asian Studies**, Vol. 9, No. 3:278-294, 2018 SAGE publishers (with Deepika Chawla).
12. Structural Change and Economic Growth across Major States of India, **Millennial Asia: An International Journal of Asian Studies**, Vol. 9, No. 2, 2018:162-182, SAGE Publications (with Monica Thind).
13. The Determinants of Food Security among the Pastoral Households of Amibara District in AFAR National Regional State, **International Journal of Research and Analytical Reviews**, Vol. 5, No. 3, 2018 (with Abdurhman Kader).
14. Quality Standards and Technological Capabilities: Empirical Evidence from Indian Firms, **Journal of Regional Development and Planning**, Vol.7, No. 2, 2018: 29-39, India (With Kriman).
15. Knowledge Spillovers Across Developing Economies, **Seoul Journal of Economics**, Vol. 30, No. 3, 2017 (with Manjinder Kaur).
16. Innovations and Intellectual Property Rights in Asia: An Introduction, **Millennial Asia: An International Journal of Asian Studies**, Vol.8, No.1, 2017, SAGE, New Delhi (with Ryuhei Wakasugi and Sukhpal Singh).
17. Economic Development in Punjab: Retrospect and Prospect, in Rastogi (ed) **Essays in Honour of Surjit Singh**, Springer forthcoming 2017.

18. R&D Expenditure and Economic Growth: An Empirical Analysis, **International Journal of Technology Management and Sustainable Development**, Vol. 15, No. 3, 2016 (with Manjinder Kaur).
19. Knowledge in the Economic Growth of Developing Economies, **African Journal of Science, Technology, Innovation and Development**, Vol. 8, No. 2, 2016 (with Manjinder Kaur).
20. Emergence of Innovative Manufacturing Firms across Asian Countries, **Seoul Journal of Economics**, Vol. 29, No. 1, 2016 (with Anita Gill).
21. Economic Transformation and Development Experience of Punjab: An Introduction, in Lakhwinder Singh and Nirvikar Singh (eds.) **Economic Transformation of a Developing Economy: The Experience of Punjab, India**, Springer Nature, 2016 (with Nirvikar Singh).
22. Decent Work and Economic Growth, in Pramod Kumar (ed.) **Vision Document 2030 for the State of Punjab**, Chandigarh: Department of Planning, Government of Punjab and Institute of Development and Communication, 2016.
23. Towards Alternative Strategy for Economic Development in Punjab, **Journal of Punjab Studies**, Vol. 22, No. 2, 2015.
24. Intra Household Allocation of Resources in Rural Punjab: Comparative Analysis of Migrants and Non Migrants Households, **Journal of Agricultural Development and Policy**, Vol. 25, No. 2, 2015 (with Samita Behl).
25. Technology, Innovations and Economic Development-An Introduction, in **Technology, Innovations and Economic Development**, Sage Publications, New Delhi, 2015 (with K J Joseph and Daniel Johnson).
26. Technological Capability, Employment Growth and Industrial Development: A Quantitative Anatomy of the Indian Scenario, in Lakhwinder Singh, K. J. Joseph and Daniel K N Johnson (eds.) **Technology, Innovations and Economic Development: Essays in Honour of Robert E Evenson**, SAGE Publishers, New Delhi 2015 (with Baldev Singh Shergill).
27. Economic Development in Punjab-An Introduction, in **Punjab's Economic Development in the Era of Globalisation** (eds.) Inderjeet Singh, Sukhwinder Singh and Lakhwinder Singh, 2014 (With Inderjeet Singh and Sukhwinder Singh).
28. Economic Governance and Punjab's Economic Growth, in **Punjab's Economic Development in the Era of Globalisation** (eds.) Inderjeet Singh and Sukhwinder Singh and Lakhwinder Singh, 2014.
29. Cancer Suffering Households in Punjab: Economic and Financial Consequences, in **Punjab's Economic Development in the Era of Globalisation** (eds.) Inderjeet Singh, Sukhwinder Singh and Lakhwinder Singh), 2014 (with Inderjeet Singh and Parmod Kumar).
30. Dealing with the Innovation-Inequality Conundrum: The Indian Experience, in Mario Scerri, Maria Clara Couto Soares and Rasigan Maharajh (eds.) **Inequality and Development Challenges**, Routledge, London, 2014 (with K J Joseph and Vinoj Abraham).
31. Trade and Development Cooperation Among Asian Countries: Introduction, Special Issue, **Millennial Asia-An International Journal of Asian Studies**, Vol. 5, No. 2, October 2014, Sage Publishers Pvt Ltd, New Delhi, India (with Sukhpal Singh).
32. Understanding India's Economic Growth: Implications for India-Korea Economic Cooperation, **Seoul Journal of Economics**, Vol. 27, No. 1, 2014, South Korea (with Keun Lee).

33. The State, Systems of Innovation and Economic Growth: Comparative Perspectives from India and South Korea, **Seoul Journal of Economics**, Vol. 27, No. 1, 2014, South Korea (with K S Bhangoo).
34. Surjit Singh: A Committed Development Economist, **Economic and Political Weekly**, Vol. XLIX, No. 7, February 15, 2014, India (with Reena Marwah and Sukhpal Singh).
35. Internationalization of Firms from China and India: Theory, Evidence and Policy, **Millennial Asia: An International Journal of Asian Studies**, Vol. 3, No. 1, 2012, India (with Anita Gill).
36. Post-Reform Economic Development in Punjab: A Comparative Perspective and Alternative Strategy, in H. S. Shergill, Sucha Singh Gill and Gurmail Singh (eds.) **Understanding North-West Indian Economy**, Serials Publications, New Delhi, 2011, India.
37. Economic Development, Foreign Direct Investment and Policy in India, in Sucha Singh Gill, Lakhwinder Singh and ReenaMarwah (eds.) **Economic and Environmental Sustainability of the Asian Region**, Routledge, London, New York and New Delhi, 2010.
38. Changing Contours of Indian Investment Abroad: Evolution, Diagnosis and Public Policy, in Mustafa Zihni Tunca (ed.) **Sustainable Economic Development and the Influence of Information Technologies: Dynamics of Knowledge Society Transformation**, IGI Global Publishers, 2010. USA, (with Varinder Jain).
39. Emerging Pattern of Employment in the Organised Manufacturing Sector of India, in R.S. Ghuman, Surjit Singh and J S Brar (eds.) **Globalisation and the State: Perspectives from Punjab-Essays in Honour of Prof. Sucha Singh Gill**, Rawat Publishers, Jaipur, (with Baldev Singh Shergill) 2010, India.
40. Changing Character of Rural Economy and Migrant Labour in Punjab, **Journal of Punjab Studies**, Vol. 16, No. 1, 2009, USA.(with Inderjeet Singh and R. S. Ghuman)
41. Capability Building for Innovations, Public Policy and Economic Growth in Asia: Lessons for Science and Technology Policy, **Current Politics and Economics of Asia**, Vol. 17, No. 4, 2008, New York, USA.
42. Growth and Dynamics of Unorganised Industries in Punjab, **International Journal of Business and Globalisation**, Vol. 1, No. 1, 2007, UK (with Varinder Jain).
43. Innovations, High Tech Trade and Industrial Development: Theory, Evidence and Policy, in George Mavrotas and Anthony Shorrocks (eds.) **Advancing Development: Core Themes in Global Economics**, **WIDER Development Studies Series**, Hampshire: Palgrave Macmillan, 2007, UK and **-WIDER Research Paper No. 2006/27**.
44. Farmers' Suicides and Response of Public Policy: Evidence, Diagnosis and Alternatives from Punjab, **Economic and Political Weekly**, Vol. 41, No. 26, June 30, 2006, Mumbai, India (with Anita Gill).
45. Deceleration of Industrial Growth and Rural Industrialization Strategy for Indian Punjab, **Journal of Punjab Studies**, Vol.12, No.2, 2005, USA.
46. "Techno-Industrial Cooperation for Development in the Two Punjabs", **Journal of Peace and Democracy in South Asia**, Vol. 1, No.2, 2005, Sweden.
47. Globalization, National Innovation Systems and Response of Public Policy, **International Journal of Technology Management and Sustainable Development**, Vol. 3, No. 3, December 2004, UK.
48. Technological Progress, Structural Change and Productivity Growth in Manufacturing Sector of South Korea, **World Review of Science, Technology and Sustainable Development**, Vol. 1, No. 1, 2004, UK.

49. Domestic and International Knowledge Spillovers in Manufacturing Industries in South Korea, **Economic and Political Weekly**, Vol. 39, No. 5, January 31, 2004, Mumbai, India.
50. Post-Reform Employment Growth in Organised Manufacturing Sector of India; A Disaggregative Analysis, **Manpower Journal**, Vol. 38, No. 1, April-June 2002, New Delhi, India (with Anita Gill).
51. Deceleration of Economic Growth in Punjab: Evidence, Explanation and A Way Out, **Economic and Political Weekly**, vol. 37, No. 6, February 9-15, 2002, Mumbai, India (with Sukhpal Singh).
52. Restructuring Monetary and Fiscal Policies for the Indian Federation, in R.N. Pal (ed.) **Indian Constitution: A Review**, Chandigarh: CRRID Publications, 2002, India.
53. Public Policy and Expenditure on R&D in Industry, **Economic and Political Weekly**, Vol. 36, No. 31, August 4-10, 2001, Mumbai, India.
54. International R&D Spillovers and Economic Growth in Asia, in Ashok Guha, K.L. Krishna and Ashok Lehari (eds.) **Industry and Trade: Essays by NIPFP - Ford Foundation Fellows**, NIPFP and Vikas Publishers, New Delhi, 2001, India.
55. Technological Spillovers and India's Industrial Growth, **The Indian Journal of Economics**, Vol. LXXX, No. 318, January 2000, Allahabad, India.
56. Economic Growth, International Technological Spillovers and Public Policy: Theory and Empirical Evidence from Asia, **Indian Management Studies Journal**, Vol. 4, No. 2, October 2000, Patiala, India (with R.E. Evenson).
57. Productivity, Competitiveness and Export Growth in a Less Developed Economy: A Study of Indian Punjab, in Pritam Singh and Shinder S. Thandi (eds.) **Punjabi Identity in a Global Context**, Oxford University Press, New Delhi, 1999, India.
58. Employment, Wages and Productivity in Public Sector Enterprises in India, **The Indian Journal of Labour Economics**, Vol. 41, No. 4, October-December 1998 (with R.S. Ghuman), New Delhi, India.
59. "Globalisation and Economic Growth in Asia" in Gopal Singh (ed.) **South Asia: Democracy, Discontent and Societal Conflicts**, Anamika Publishers Pvt. Ltd., Delhi, India, 1998.
60. Wage-Productivity Relationship in Theory and Practice: A Study of Indian Public Enterprises, **PSE Economic Analyst**, Vol. 15, Nos. 1&2 (with R.S. Ghuman) 1994 Amritsar, India.
61. Industrial Development in Punjab: An Analysis of Growth of Productivity and Structure of Wages, **Finance India** Vol. 7, No. 1, March 1993, New Delhi, India.
62. Aspects of Growth and Structural Change in Industrial Sector of Punjab, **Man & Development**, Vol. 14, No.2, June 1992, Chandigarh, India.
63. Changes in the Inter-Industry Structure of Wages: The Case of Punjab, **Indian Journal of Industrial Relations**, Vol. 27, No. 2, October 1991, New Delhi, India.
64. Foreign Trade of India: A Macro View, **Indian Management Studies Journal**, Vol. I, No. 1, October 1989 (with R.S. Ghuman), Patiala, India.
65. Changes in the Structure of Industrial Work force in Punjab, **Margin Quarterly Journal**, Vol. 20, No. 2, January-March, 1988 (with K.S. Bhangoo), New Delhi, India.
66. Economies of Scale and Technical Change, **Productivity**, Vol. 28, No.3, 1987 (with K.C. Singhal), New Delhi, India.
67. Productivity Trends and Factor Substitutability in Punjab Industry, **The Indian Journal of Economics**, Vol. LXVII, Part III, No. 266, January 1987, Allahabad, India.
68. Capital-Labour Substitution in Punjab Industry, **Indian Journal of Industrial Relations**, Vol. 21, October 1985 (with K.C. Singhal), New Delhi, India.

Articles in Leading Indian Newspapers:

1. Democratising the Economy for Economic Justice, **Hindustan Times**, February 25, 2021, Chandigarh
2. Farm Reforms Must Ensure Price Stability, Food Security, **Hindustan Times**, December 4, 2020, Chandigarh
3. Action Plan Loaded in Favour of Corporate Sector, In Focus Agriculture Union Budget, **The Tribune**, Chandigarh, February 10, 2020.
4. Don't Kill Farms for Industry, **The Tribune**, Chandigarh, February 20, 2018
5. Woes and Remedies: Slowdown of Indian Economy Needs Fine-Tuned Strategy to Get into Revival Mode, **Daily Post**, Chandigarh, January 24, 2018
6. Why Should Agriculture Income be Taxed?, **The Hindu**, May 26, 2017.
7. Punjab Economy Grounded by Overstay in Agriculture, **The Tribune**, May 18, 2017.
8. What Should Amarinder Govt. Do to Rejuvenate the Punjab Economy, **Hindustan Times**, May 9, 2017.
9. Strategy to Revive Punjab Economy, Sunday **Daily Post**, Chandigarh, April 30, 2017.
10. Agriculture and Punjab, **Daily Post**, Chandigarh, April 24, 2017.
11. Rural Distress, **Daily Post**. Chandigarh (Friday), May 13, 2016.
12. Fight Political Elite to Fight Agrarian Distress, **The Tribune**, Chandigarh (Wednesday) May 11, 2016.
13. What We Need is a Strategic Vision, State of Punjab's Economy, HT Debate, **Hindustan Times**, February 5, 2015, Chandigarh.
14. Modi's Make in India, **Daily Post**, Chandigarh, January 13, 2015.
15. Resurrecting Punjab's Economy, **Hindustan Times**, Chandigarh, Tuesday, January 6, 2015.
16. Innovation and Development: India Needs to Invest in Science, Technology and Innovation Capacity Building, **Daily Post**, Chandigarh, May 7, 2014.
17. Long-Term Strategy Needed for Punjab's Holistic Growth, Short-Term Goals Must be Avoided, **Daily Post**, Chandigarh, November 1, 2013.
18. Punjab Finances: Need to Look Beyond Fiscal Crisis, **Hindustan Times**, Chandigarh, October 7, 2013
19. From Leader to Laggard: Punjab's Continuous Downward Ranking Across Dynamic Indian States is a Cause for Worry, **Daily Post**, April 22, 2013, Chandigarh.
20. Knowledge Economy, **Daily Post**, Chandigarh, February 26, 2013.
21. Credit Rating Puzzle, **Daily Post**, Chandigarh, December 7, 2012.
22. Rupee's Bumpy Ride, **Daily Post**, Chandigarh, August 01, 2012
23. Union Budget Must Address Goals of Grain-Producing States, **Hindustan Times**, Chandigarh, March 02, 2012.
24. Roadmap for Punjab's Industrialization, **Daily Post**, Chandigarh, February 22, 2012.
25. Emerging Inequitable Environmental Regime, **Daily Post**, Chandigarh, February 17, 2012.
26. Budget Must Address Issues of Social Justice with Growth, **The Sunday Tribune**, Chandigarh, February 25, 2007.
27. Strengthening Punjab's Rural Economy, **The Sunday Tribune**, Chandigarh, February 11, 2007.

News Paper Interviews:

- i. Punjab Overstayed in Agriculture-Interview, **The Hindu**, May 28, 2016.
- ii. Sustainable and Inclusive Development Still a Concern: An Interview, **Daily Business-Daily Post**, Chandigarh, September 3, 2012.
- iii. Diagnosing Punjab's Economic Ills: An Interview, **Hindustan Times Sunday Magazine**, January 4, 2009.

Research Guidance Experience:

Completed Doctoral Thesis:

1. Fekadu Mekonnen Bedhiye (2020) Effect of Fiscal Policy on Private Investment and Economic Growth: Evidence from Ethiopia, Punjabi University, Patiala
2. Yismaw Ayelogn Mengistu (2020) Efficiency and Productivity Analysis of Manufacturing Firms in Ethiopia, Punjabi University, Patiala.
3. Girma Demilew Abeje (2019) The Determinants Inclusive Growth in Sub-Saharan Africa: An Analysis of the Growth-Poverty-Inequality Nexus, Punjabi University, Patiala.
4. Abdurhman Kader Ali, (2019) The Resettlement Program and Dynamics of Food Security in Agro-Pastoral Households of Ethiopia: A Case of Afar National Regional State, Punjabi University, Patiala.
5. Deepika Chawla (2019) Patterns of Industrial R&D Growth: Study of OECD Countries, Punjabi University, Patiala.
6. Manjinder Kaur (2019) Foreign Direct Investment and Economic Growth: Theory and Empirical Evidence from Developing Economies, Punjabi University, Patiala.
7. Kriman Khan (2018) Quality Standards, Technological Capabilities and Competitiveness of Indian Firms, Punjabi University, Patiala.
8. Monica Nagar (2018) Female Work Participation in Punjab Agriculture: Access, Income and Contributions, Punjabi University.
9. Monica Jaitly (2018) Monetary Policy and Economic Growth in India: An Inter-State Analysis. Punjabi University.
10. Manjinder Kaur (2017) Knowledge Accumulation and Economic Growth: A Case Study of Developing Economies, Punjabi University.
11. Rakesh Kumar (2017) Agricultural Innovation System and Agricultural Development in India, Punjabi University.
12. Niharika Sharma (2017) Industrial Growth in India: An Inter-State Analysis. May 2017.
13. Samita Behl (2015) International Migration, Remittances and Resource Allocation in Rural Households of Punjab, Punjabi University.
14. Shiv Kumar (2014) Social Capital and Poverty: A Case Study of Household Welfare in Rural Punjab, Punjabi University.
15. Pooja Sikka (2011) Economic Growth, Income Inequality and Public Policy in India, Punjabi University.
16. Swati Mehta (2011) Technology, Trade and Industrial Development: A Study of Indian Manufacturing Sector, Punjabi University.
17. Preeti Singh (2010) Business Process Outsourcing and Public Policy in India, Punjabi University.
18. Satjeet Singh (2008) Human Capital, Household Inequality and Public Policy: A Case Study of Rural Punjab, Punjabi University.
19. Baldev Singh (2007) Globalization, Competitive Advantage and India's Agro-processing Industry, Punjabi University.

20. Pooja Batalvi (2004) Endogenous Technological Progress, Technological Spillovers and Public Policy, Punjabi University.

Research Interests:

Development Economics, Systems of Innovation, Human Development and Knowledge Economy, Industrial organization and Economics, Rural-Urban Migration, Area Studies (Punjab, India, South Korea, Asia and BRICS)

Courses Served: Economics of Growth and Development; Advanced Macroeconomics; Regional Economics; Industrial Economics and Organization; Environmental Economics; Human Development and Knowledge Economy.

RESEARCH PROJECT REPORTS:

1. **Principles and Measures determining Salary Structure of Punjab Government Employees**, Sixth Punjab Pay Commission, Government of Punjab, Chandigarh, 2019-2020.
2. **Rural-Urban Migration, Informal Sector Employment and Income/Earning Differentials: Reflections from Two Indian States-Punjab and Haryana**, Indian Council of Social Science Research, New Delhi 2018 (with Sukhwinder Singh and Deepak Kumar)
3. **Farmers' and Agriculture Labourers' Suicides in Seven Districts of Punjab**, October 2017, Department of Revenue, Rehabilitation and Disaster Management, Government of Punjab, Chandigarh.
4. **Agrarian Distress in Punjab: Suicides of Farmers and Labourers**, Indian Council of Social Science Research (ICSSR), New Delhi, 2013.
5. **Restructuring Economic Governance in Punjab 2011**, Punjab Governance Reform Commission, Government of Punjab, Chandigarh (With B. S. Ghuman).
6. **Human Development Report of Sangrur District 2009**, Planning Commission of India and UNDP, New Delhi (with Sucha Singh Gill et.al)
7. **Status of Local Agricultural Labour in Punjab**, The Punjab State Farmers Commission, Government of Punjab, December 2007 (with R. S. Ghuman et.al).
8. **Infrastructure Linkages in Two Punjab**, Department of Economics, Punjabi University Patiala, sponsored by Two Punjabs Centre, CRRID, Chandigarh, December, 2005 (with Sucha Singh Gill et.al).
9. **Globalisation and Economic Growth in Asia**, Dept. of Economics, Punjabi University, sponsored by UGC, August 1999.
10. **Draft Plan of Sirhind Block**: Final Report submitted to the Government of Punjab (Department of Planning) Dept. of Economics, Punjabi University, May 1998 (with Surendar Singh *et al.*)
11. **Impact of 1994-95 Budget Changes Relating to Central Excise on Small Scale Sector** National Institute of Public Finance and Policy, January 1995 (with A. Bagchi *et al.*).

Working/Discussion Papers

1. "Productivity, Competitiveness, and Export Growth in a Less Developed Economy: A Study of Indian Punjab", *Discussion Paper No. 722*, Economic Growth Centre, Yale University, USA, 1994

2. "Economic Growth, International Technological Spillovers and Public Policy: Theory and Empirical Evidence from Asia" () *Discussion Paper No. 785*, Economic Growth Centre, Yale University, USA, 1997 (with Robert E. Evenson)
3. Technological Progress, Structural Change and Productivity Growth in Manufacturing Sector of South Korea, *Discussion Paper No. 50*, Institute of Economic Research, Seoul National University, Seoul, South Korea, 2002.
4. Domestic and International Knowledge Spillovers in the South Korean Manufacturing Industries, *Discussion Paper No. 51*, Institute of Economic Research, Seoul National University, Seoul, South Korea, 2002
5. Crisis of Agrarian Capitalism, Farmers' Suicides and Response of Public Policy: Evidence, Diagnosis and Alternatives, *Working Paper No. 5*, Government Policy Spaces (GAPS) Project, Centre for Economic and Social Studies, Hyderabad, 2005 (with Anita Gill)
6. The State, Systems of Innovation and Economic Growth: Comparative Perspectives from India and South Korea, *Discussion Paper No. 2*, CDEIS, Punjabi University, October 2013 (with Kesar Singh Bhangoo)
7. Services Sector as an Engine of Economic Growth: Implications for India-South Korea Economic Cooperation, *Discussion Paper No. 3*, CDEIS, Punjabi University, October 2013 (with Inderjeet Singh)
8. Economic and Financial Consequences of Cancer from Patient's Family Perspective: A Case Study of Punjab, *Discussion Paper No. 5*, CDEIS, Punjabi University, October 2013 (with Inderjeet Singh and Parmod Kumar)
9. Emergence of Innovative Manufacturing Firms across Asian Countries, *Discussion Paper No. 11*, CDEIS, Punjabi University, Patiala, December 2015 (with Anita Gill).
10. Knowledge in Economic Growth of Developing Economies, *Discussion Paper No. 12*, CDEIS, Punjabi University, December 2015 (with Manjinder Kaur).
11. Towards all Alternative Strategy of Economic Development in Punjab, *Discussion Paper No. 14*, CDEIS, Punjabi University, November, 2016
12. Global Spread and Determinants of Initial Phase of COVID-19 Pandemic, *Discussion Paper No. 18*, CDEIS, Punjabi University, Patiala, June 2020 (with Varinder Jain)

Important MoUs formulated for academic collaborations:

S. No.	MoUs formulated	Name of Agencies/Departments involved	Year of MoU
1.	Academic cooperation and opportunities for graduate students of Economics	University of Northern British Columbia, Canada and Punjabi University	February 2020
2.	Academic cooperation and joint research projects	University of Zurich, Institute of Asian and Oriental Studies, Switzerland and CDEIS, Punjabi University	November 2019
3.	Agreement of International Cooperation	University of Wisconsin, Parkside, USA and Punjabi University	January 2018
4.	Academic Cooperation and Exchange of Students	The University of British Columbia, Canada and Punjabi University	June 2019
5.	Cooperation for scholarly activities and international understanding	The University of Fraser Valley, Canada and Punjabi University	November 2017

Participation and scholarly presentations in international conferences

S. No.	Date	Title of Conference or Institution	Title/Subject of presentation (if made)
1.	24-26 October, 2018	16 th GLOBELICS International Conference on “Innovation, Economic Growth and Sustainable Development: Strengthening Institutions for Greater Relevance, Effectiveness and Inclusivity, STEPRI, CSIR, Accra, Ghana	Quality Standards and Technological Capabilities: Empirical Evidence from Indian Firms
2.	2-4 July, 2018	17 th Conference of the International Joseph A. Schumpeter Society (ISS 2018), Seoul National University, Seoul	Interconnection between R&D and Industrial Production Structure: The Experience of India
3.	9-10 June, 2016	Innovation and Sustainability: Lessons from the History of India and Hope for the Future, Colorado College, Colorado, USA	The State, System of Innovation and Sustainable Development: The Indian Experience
4.	30-31 October, 2015	International Symposium of Seoul Journal of Economics, Seoul National University, South Korea	Emergence of Innovative Manufacturing Firms across Asian Countries
5.	03 September, 2013	21 st SJE-KERI International Symposium on Understanding Growth in India: Implications for India-Korea Cooperation, Seoul National University, Seoul, South Korea	Innovation and Economic Growth: A Comparative Perspective from India and South Korea
6	29-30 March, 2013	Rebuilding Punjab: Political Economy, Society and Values, University of California, Santa Cruz, USA	Vision for Economic Development in Punjab
7.	16-18 March, 2012	Global Economy, Asia-Pacific Economic Association, Department of Economics, University of Washington, Seattle, WA, USA	Internationalization of Firms from Emerging Economies: Theory, Evidence and Policy
8.	22-23 October, 2009	UNU-MERIT, UNU-WIDER and UNIDO International Workshop on Pathways to Industrialisation in the 21 st Century: New Challenges and Emerging Paradigms, at Maastricht , The Netherlands	Technological Capabilities, Employment Growth and Industrial Development: A Quantitative Anatomy of Indian Scenario
9.	19-21 August 2009	International Conference on Innovation and Development Under Globalization: BRICS Experience, Organised by CDS and Federal University of Rio De Janeiro, at Thiruvananthapuram	National Innovation System and Inequality: Indian Experience
10.	4-6 February, 2009	International Conference on the theme Liberalising Research in Science and Technology: Studies in Science Policy, IIT, Kanpur jointly organized by Institute of History of Science and Technology, the Russian Academy of Sciences, St. Petersburg	National Innovation System in the Era of Liberalisation: Implications for Science and Technology Policy of the Developing Economies
11.	28-30 July, 2008	3rd International Seminar: Comparative National Systems of Innovation: Brazil, Russia, India, China & South Africa, Stellenbosch, Cape Town, South Africa	National Innovation System and Inequality in the BRICS Countries

12.	20-23 September, 2007	5 th GLOBELICS Conference, Saratov State Technical University, Russian Federal Agency of Science and Innovations and Government of Saratov Region, Saratov, Russia	Foreign Direct Investment, Spillovers and Capability building in Asia: Theory, Empirics and Policy
13.	7-8 July, 2006	International conference on the theme "Korea and the World Economy V, Korea University, Seoul, South Korea	Innovations and Economic Growth in a Fast Changing Global Economy: Comparative Experience of South East Asia
14.	17-18 June, 2005	Jubilee Conference on WIDER Thinking Ahead: The Future of Development Economics, United Nations University, Helsinki, Finland	Innovations, High-Tech Trade and Industrial Development: Theory and Empirical Evidence from Asia
15.	7-10 March, 2005	International Conference on Science and Technology Policy: Future Challenges in the Context of Globalization, NISTADS, New Delhi and Hosted by CRRID, Chandigarh	Industrial R&D Expenditure in Comparative Perspective: Growth, Structure and Policy Options
16.	7-9 May, 2004	International Conference on 75 Years of Development Research, Cornell University, USA	Domestic and International Knowledge Spillovers in Manufacturing Industries in South Korea
17.	1-3 December, 2004	World Punjabi Conference, Punjabi University, Patiala, India	Techno-Industrial Cooperation for Development in the Two Punjab and Strategic Role of the Punjabi Diaspora
18.	10-12 September, 2003	International Conference on Globalisation and Development, Development Studies Association, Strathclyde University, Glasgow, UK	Globalisation, National Innovation Systems and Response of Public Policy
19.	1-2 September, 2003	Third Annual Fellow's Conference of the Asian Scholarship Foundation on Re-inventing Asia in Globalising World, Bangkok, Thailand	Globalisation, Technology and Industrialisation
20.	19-22 August, 2003	Third International Convention of Asia Scholars (ICAS3), National University of Singapore, Singapore	Technological Progress, Structural Change and Productivity Growth in Manufacturing Sector of South Korea

Participation and scholarly presentations in national conferences

S. No.	Date	Title of Conference or Institution	Title/Subject of presentation (if made)
1.	January 5, 2019	Indian Economy: Performance and Prospectus, Department of Economics, M.S. University of Baroda, Gurjarat	Structural Transformation of the Indian Economy
2.	February 23-24, 2018	Agrarian Distress, Rural Credit and Employment in North East India, NEHU, Shillong	Rural Distress and Employment in India
3.	February 2-3, 2018	International Punjabi Conference, Sri Guru Teg Bahadur Khalsa College, University of Delhi, Delhi	Punjab da Aarthak Vikaas: Naven Dishadde di Talash

4.	February 26, 2015	1 st International Conference on Applied Economics and Finance, GITAM School of International Business, GITAM University, Visakhapatnam	R&D Expenditure and Economic Growth: An Empirical Analysis
5.	February 20, 2014	National Conference on Challenges and Opportunities in the Post-Economic Reform Era in India, SCD Government College, Ludhiana	Grand Challenges in the Post Economic Reforms of India
6.	September 21-22, 2012	UGC National Seminar on Issues Facing the Regional Economy in India: Perspectives and Challenges, GNDU, Amritsar	Economic Governance and Punjab's Economic Growth
7.	December 17-19, 2010	52 nd Annual Conference of the Indian Society of Labour Economics, Karnatak University, Dharwad	Innovation and Unemployment: Theory Versus Reality
8.	February 4-6, 2009	Liberalizing Research in Science & Technology – Studies in Science Policy, IIT, Kanpur	National Innovation System in the Era of Liberalization
9.	March 25, 2006	Copyrights: Emerging Issues in India, Thapar Institute of Engineering and Technology, Patiala	Innovations and Economic Growth in a Fast Changing Global Economy: Asian Experience
10.	March 25-26, 2005	Intellectual Property Rights, Punjab School of Economics, GNDU, Amritsar	Intellectual Property Rights and Economic Development: The International Experience
11.	February 10-11, 2005	Indian Agriculture at the Crossroads: Economic, Social and Political Dimensions, Department of Geography, Panjab University, Chandigarh	Changing Structure of Agro Processing Industries in Punjab
12.	February 6-7, 2001	National Seminar: Prospects of Industrial R&D in India under Globalization, Department of Humanities and Social Sciences, IIT, Kanpur	Techno-Globalization, Innovation Investment and Public Policy

Organized National Workshops and International Conferences

Sr. No.	Theme of the Workshop/Conference	Days of the Conference
1.	National Workshop on 'Challenges before Economic Development in Punjab'	May 03, 2012
2.	National Workshop on 'Agrarian Distress and Rural Suicides'	August 31, 2012
3.	National Workshop on 'Research Capacity Building: Innovation for Inclusive Development'	November 15-18, 2012
4.	International Conference on 'Development and Innovation in the Emerging Economies'	November 16-18, 2012
5.	International Conference on 'Human Development and Knowledge Economy'	February 19-20, 2013
6.	International Conference on 'Political Economy of Economic Cooperation among Asian Countries' in collaboration with Association of Asia Scholars'	February 08, 2014

7.	Workshop on 'Science, Technology and Innovation Policy for Inclusive Growth' in collaboration with Wadhvani Foundation Policy Research Centre, New Delhi	June 25, 2014
8.	International Conference on 'Rejuvenation of Punjab Economy'	March 21-23, 2014
9.	51 st Annual Conference of The Indian Econometric Society (TIES)	December 12-14, 2014
10.	International Conference 'Systems of Innovation for Inclusive Agriculture and Rural Development'	July 28-29, 2015
11.	National Conference on "Contemporary Development Issues in Northern India"	February 27-28, 2016
12.	National Workshop on "Rural Distress: Strategies for Public Policy Intervention"	May 27, 2016
13.	International Conference on "Innovation, Trade and Development"	November 25-26, 2016
14.	International Conference on "50 years of Economic Development in Punjab"	25-26 March, 2017
15.	Workshop on AMPC Act, in collaboration with Punjab Mandi Board, Govt. of Punjab, Mohali	March 07, 2017
16.	Workshop on Public Policy for Prevention of Rural Suicides	November 15, 2017
17.	International Conference on "Innovation, Knowledge Accumulation and Economic Development in the Era of Fourth Industrial Revolution"	March 15-16, 2018
18.	International Conference on "Planning for Industrialization in 21 st Century"	15-16 November, 2018
19.	National Workshop on "Agrarian Distress and Public Policy Options"	28 February 2019
20.	International Conference on "Asia's Development Experience in 21 st Century"	11-12 June, 2019
21.	61 st Annual Conference of the Indian Society of Labour Economics (ISLE)	7-9 December, 2019

(Lakhwinder Singh)