

CURRICULUM VITAE

Lakhwinder Singh

Department of Economics,
Punjabi University, Patiala 147002 India
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Current Position: Professor of Economics, and Coordinator, Centre for Development Economics and Innovations Studies (CDEIS), Punjabi University.

Honorary Positions:

- (i) Vice President, Indian Society of Labour Economics, 2020.
- (ii) Member, Board of Management, International Joseph A. Schumpeter Society, Augsburg, Germany, 2018-2020.
- (iii) Member Syndicate, Punjabi University, Patiala January 1, 2019 to June 29, 2019.
- (iv) Member Senate, Punjabi University, Patiala, January 1, 2019 to June 29, 2019.
- (v) Head, Department of Economics, Punjabi University, July 1, 2016 to June 30, 2019
- (vi) Founding Editor, Millennial Asia: An International Journal of Asian Studies, SAGE Publications, India. 2010 to date.
- (vii) Vice President, Indian Society for Agricultural Development and Policy, India-2012-14.
- (viii) Member, Task Group V Economic Governance, Punjab Governance Reform Commission, Government of Punjab, Chandigarh 2009-2011.
- (ix) Member, Editorial Board, Innovation and Development, Routledge-Taylors and Francis Group.
- (x) Member, Editorial Advisory Board, African Journal of Science, Technology and Development, Routledge-Taylor and Francis Group.
- (xi) Secretary, INDIALICS-An Indian Chapter of Globelics since 2012.
- (xii) Executive Member, The Indian Econometric Society-2013-2015.
- (xiii) Member Senate, L M Thapar School of Management, Thapar University-since 2016 to date.
- (xiv) Member, School Board of Economics, Management and Information Sciences, North-Eastern Hill University, Shillong, Meghalaya, September 9, 2019 to September 8, 2021.
- (xv) Founding Coordinator, Centre for Development Economics and Innovation Studies (CDEIS), Punjabi University, Patiala since 2012.
- (xvi) Director, International Students, Punjabi University, July 21, 2017 to July 20, 2018.
- (xvii) Expert Member, Wetlands Authority, Government of Punjab, Chandigarh, 2018-2019
- (xviii) Associate Dean Research, Punjabi University, Patiala, December 3, 2018 to January 3, 2020.

Referee Work for Journals:

Economics of Innovation and New Technologies; Innovation and Development; Research Policy; Seoul Journal of Economics; African Journal of Science, Technology, Innovation and Development; International Journal Technology Management and Sustainable Development; Industrial and Corporate Change; Asian Economic Journal, Journal of Chinese and Business Studies, Emerging Markets Finance and Trade.

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. Honours School in Economics, 1979-81.

Educational Qualifications:

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

Employment History

Year	Position	Institution
2006- till date	Professor	Punjabi University
1998-2006	Reader/Associate Professor	Punjabi University
1995-2006	Senior Lecture	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. **Agriculture Innovation System in Asia: Towards Inclusive Rural Development**, Routledge, London, New York, New Delhi (jointly edited with Anita Gill), 2020
2. **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).
3. **Economic Transformation of a Developing Economy: The Experience of Punjab, India**, Springer Nature, Singapore, 2016 (Jointly edited with Nirvikar Singh).
4. **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 Angeles, 2015.
5. **Punjab's Economic Development in the Era of Globalisation**, LG Publishers and Distributors, Delhi 2014 (Jointly edited with Inderjeet Singh and Sukhwinder Singh).
6. **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).
7. **Economic Cooperation and Infrastructure Linkages between Two Punjabs: Way Ahead** (Jointly with Sucha Singh Gill et.al) CRRID Publications, Chandigarh, 2010.
8. **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:

1. 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)
2. 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)
3. 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.
4. 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).
5. 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).
6. Indian Economic Development Under Globalization, **Millennial Asia: An International Journal of Asian Studies**, Vol. 9, No.3, 2019 (with Sukhpal Singh).

7. 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).
8. 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).
9. 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).
10. 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 Krیمان).
11. Knowledge Spillovers Across Developing Economies, **Seoul Journal of Economics**, Vol. 30, No. 3, 2017 (with Manjinder Kaur).
12. 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 RyuheiWakasugi and Sukhpal Singh).
13. Economic Development in Punjab: Retrospect and Prospect, in Rastogi (ed) **Essays in Honour of Surjit Singh**, Springer forthcoming 2017.
14. 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).
15. 'Knowledge in the Economic Growth of Developing Economies', **African Journal of Science, Technology, Innovation and Development**, Vol. 8, No. 2, 2016 (with Manjinder Kaur).
16. 'Emergence of Innovative Manufacturing Firms Across Asian Countries', **Seoul Journal of Economics**, Vol. 29, No. 1, 2016 (with Anita Gill).
17. '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).
18. Decent Work and Economic Growth, in Parmod Kumar (ed.) **Vision Document 2030 for the State of Punjab**, Chandigarh: Department of Planning, Government of Punjab and Institute of Development and Communication, 2016.
19. Towards Alternative Strategy for Economic Development in Punjab, **Journal of Punjab Studies**, Vol. 22, No. 2, 2015.
20. '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 SamitaBehl).
21. '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).
22. "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).
23. '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).

24. 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.
25. 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).
26. "Dealing with the Innovation-Inequality Conundrum: The Indian Experience", in Mario Scerri, Maria Clara Couto Soares and Rasigan
27. Maharajh (eds.) **Inequality and Development Challenges**, Routledge, London, 2014 (with K J Joseph and Vinoj Abraham).
28. '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).
29. '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).
30. "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).
31. 'Surjit Singh: A Committed Development Economist', **Economic and Political Weekly**, Vol. XLIX, No. 7, February 15, 2014, India (with ReenaMarwah and Sukhpal Singh).
32. "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).
33. "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.
34. "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.
35. "Changing Contours of Indian Investment Abroad: Evolution, Diagnosis and Public Policy", in Mustafa ZihniTunca (ed.) **Sustainable Economic Development and the Influence of Information Technologies: Dynamics of Knowledge Society Transformation**, IGI Global Publishers, 2010. USA, (with Varinder Jain).
36. "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.
37. "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)
38. "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.
39. Growth and Dynamics of Unorganised Industries in Punjab", **International Journal of Business and Globalisation**, Vol. 1, No. 1, 2007, UK (with Varinder Jain).

40. "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**.
41. "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).
42. "Deceleration of Industrial Growth and Rural Industrialization Strategy for Indian Punjab", **Journal of Punjab Studies**, Vol.12, No.2, 2005, USA.
43. "Techno-Industrial Cooperation for Development in the Two Punjab", **Journal of Peace and Democracy in South Asia**, Vol. 1, No.2, 2005, Sweden.
44. "Globalization, National Innovation Systems and Response of Public Policy", **International Journal of Technology Management and Sustainable Development**, Vol. 3, No. 3, December 2004, UK.
45. "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.
46. "Domestic and International Knowledge Spillovers in Manufacturing Industries in South Korea", **Economic and Political Weekly**, Vol. 39, No. 5, January 31, 2004, Mumbai, India.
47. "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).
48. "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).
49. "Restructuring Monetary and Fiscal Policies for the Indian Federation" in R.N. Pal (ed.) **Indian Constitution: A Review**, Chandigarh: CRRID Publications, 2002, India.
50. "Public Policy and Expenditure on R&D in Industry", **Economic and Political Weekly**, Vol. 36, No. 31, August 4-10, 2001, Mumbai, India.
51. "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.
52. "Technological Spillovers and India's Industrial Growth" **The Indian Journal of Economics**, Vol. LXXX, No. 318, January 2000, Allahabad, India.
53. "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).
54. "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.
55. "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.
56. "Globalisation and Economic Growth in Asia" in Gopal Singh (ed.) **South Asia: Democracy, Discontent and Societal Conflicts**, Anamika Publishers Pvt. Ltd., Delhi, India, 1998.

57. “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.
58. “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.
59. “Aspects of Growth and Structural Change in Industrial Sector of Punjab” **Man & Development** Vol. 14, No.2, June 1992, Chandigarh, India.
60. “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.
61. “Foreign Trade of India: A Macro View” **Indian Management Studies Journal** Vol. I, No. 1, October 1989 (with R.S. Ghuman), Patiala, India.
62. “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.
63. “Economies of Scale and Technical Change” **Productivity** Vol. 28, No.3, 1987 (with K.C. Singhal), New Delhi, India.
64. “Productivity Trends and Factor Substitutability in Punjab Industry” **The Indian Journal of Economics** Vol. LXVII, Part III, No. 266, January 1987, Allahabad, India.
65. “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. Don't Kill Farms for Industry, **The Tribune**, Chandigarh, February 20, 2018
2. Woes and Remedies: Slowdown of Indian Economy Needs Fine-Tuned Strategy to Get into Revival Mode, **Daily Post**, Chandigarh, January 24, 2018
3. Why Should Agriculture Income be Taxed?, **The Hindu**, May 26, 2017.
4. Punjab Economy Grounded by Overstay in Agriculture, **The Tribune**, May 18, 2017.
5. What Should AmaraniderGovt Do to Rejuvenate the Punjab Economy, **Hindustan Times**, May 9, 2017.
6. Strategy to Revive Punjab Economy, Sunday **Daily Post**, Chandigarh, April 30, 2017.
7. Agriculture and Punjab, **Daily Post**, Chandigarh, April 24, 2017.
8. Rural Distress, **Daily Post**. Chandigarh (Friday), May 13, 2016.
9. Fight Political Elite to Fight Agrarian Distress, **The Tribune**, Chandigarh (Wednesday) May 11, 2016.
10. What We Need is a Strategic Vision, State of Punjab's Economy, HT Debate, **Hindustan Times**, February 5, 2015, Chandigarh.
11. Modi's Make in India, **Daily Post**, Chandigarh, January 13, 2015.
12. Resurrecting Punjab's Economy, **Hindustan Times**, Chandigarh, Tuesday, January 6, 2015.
13. Innovation and Development: India Needs to Invest in Science, Technology and Innovation Capacity Building, **Daily Post**, Chandigarh, May 7, 2014.
14. Long-Term Strategy Needed for Punjab's Holistic Growth, Short-Term Goals Must be Avoided, **Daily Post**, Chandigarh, November 1, 2013.
15. Punjab Finances: Need to Look Beyond Fiscal Crisis, **Hindustan Times**, Chandigarh, October 7, 2013
16. From Leader to Laggard: Punjab's Continuous Downward Ranking Across Dynamic Indian States is a Cause for Worry, **Daily Post**, April 22, 2013, Chandigarh.
17. Knowledge Economy, **Daily Post**, Chandigarh, February 26, 2013.
18. Credit Rating Puzzle, **Daily Post**, Chandigarh, December 7, 2012.
19. Rupee's Bumpy Ride, **Daily Post**, Chandigarh, August 01, 2012

20. Union Budget Must Address Goals of Grain-Producing States, **Hindustan Times**, Chandigarh, March 02, 2012.
21. Roadmap for Punjab's Industrialization, **Daily Post**, Chandigarh, February 22, 2012.
22. Emerging Inequitable Environmental Regime, **Daily Post**, Chandigarh, February 17, 2012.
23. Budget Must Address Issues of Social Justice with Growth, **The Sunday Tribune**, Chandigarh, February 25, 2007.
24. 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. Yismaw Ayelogn Mengistu (2020) Efficiency and Productivity Analysis of Manufacturing Firms in Ethiopia, Punjabi University, Patiala.
2. Girma DemilewAbeje (2019) The Determinants Inclusive Growth in Sub-Saharan Africa: An Analysis of the Growth-Poverty-Inequality Nexus, Punjabi University, Patiala.
3. 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.
4. Deepika Chawla (2019) Patterns of Industrial R&D Growth: Study of OECD Countries, Punjabi University, Patiala.
5. Manjinder Kaur (2019) Foreign Direct Investment and Economic Growth: Theory and Empirical Evidence from Developing Economies, Punjabi University, Patiala.
6. Kriman Khan (2019) Quality Standards, Technological Capabilities and Competitiveness of Indian Firms, Punjabi University, Patiala.
7. Monica Nagar (2018) Female Work Participation in Punjab Agriculture: Access, Income and Contributions, Punjabi University.
8. Monica Jaitly (2018) Monetary Policy and Economic Growth in India: An Inter-State Analysis. Punjabi University.
9. Manjinder Kaur (2017) Knowledge Accumulation and Economic Growth: A Case Study of Developing Economies, Punjabi University.
10. Rakesh Kumar (2017) Agricultural Innovation System and Agricultural Development in India, Punjabi University.
11. Niharika Sharma (2017) Industrial Growth in India: An Inter-State Analysis. May 2017.
12. Samita Behl (2015) International Migration, Remittances and Resource Allocation in Rural Households of Punjab, Punjabi University.
13. Shiv Kumar (2014) Social Capital and Poverty: A Case Study of Household Welfare in Rural Punjab, Punjabi University.
14. Pooja Sikka (2011) Economic Growth, Income Inequality and Public Policy in India, Punjabi University.

15. Swati Mehta (2011) *Technology Trade and Industrial Development: A Study of Indian Manufacturing Sector*, Punjabi University.
16. Satjeet Singh (2008) *Human Capital, Household Inequality and Public Policy: A Case Study of Rural Punjab*, Punjabi University.
17. Baldev Singh (2007) *Globalization, Competitive Advantage and India's Agro-processing Industry*, Punjabi University.
18. 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 Organization; Environmental Economics; Human Development and Knowledge Economy.

RESEARCH PROJECT REPORTS:

1. 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)
2. Farmers' and Agriculture Labourers' Suicides in Seven Districts of Punjab, October 2017, Department of Revenue, Rehabilitation and Disaster Management, Government of Punjab, Chandigarh.
3. Agrarian Distress in Punjab: Suicides of Farmers and Labourers, Indian Council of Social Science Research (ICSSR), New Delhi, 2013.
4. **Restructuring Economic Governance in Punjab 2011**, Punjab Governance Reform Commission, Government of Punjab, Chandigarh (With B. S. Ghuman).
5. **Human Development Report of Sangrur District 2009**, Planning Commission of India and UNDP, New Delhi (with Sucha Singh Gill et.al)
6. **Status of Local Agricultural Labour in Punjab**, The Punjab State Farmers Commission, Government of Punjab, December 2007 (with R. S. Ghuman et.al).
7. **Infrastructure Linkages in Two Punjabs**, Department of Economics, Punjabi University Patiala, sponsored by Two Punjabs Centre, CRRID, Chandigarh, December, 2005 (with Sucha Singh Gill et.al).
8. **Globalisation and Economic Growth in Asia**, Dept. of Economics, Punjabi University, sponsored by UGC, August 1999.
9. **Draft Plan of Sirhind Block** : Final Report submitted to the Government of Punjab (Department of Planning) Dept. of Economics, Punjabi University, May 1998 (with Surender Singh *et al.*)
10. **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. Bagchiet *al.*).