

Curriculum Vitae

1. NAME : **ARPITA GHOSE**

2. ADDRESS :

Home: 13/3 Central Park
Calcutta 70032

Phone: 91-33-24250818

Mobile: 9830950176

E-mail: arpitaju@gmail.com;

arpita.ghose@jadavpuruniversity.in

Work: Department of Economics
Jadavpur University
Calcutta 700 032, INDIA
Phone: 91-33-2414-6328
FAX: 91-33-2414-6328

3. SEX : **Female**

4. DATE OF BIRTH : 30th August 1962

5. PRESENT OCCUPATION: Professor, since 30.6.2010, Department of Economics, Jadavpur University, Kolkata 700 032 , till continuing

6. VISITING TEACHING POSITION:

(a) Department of Economics, Calcutta University, since 2001, till continuing..

(b) Department of Economics, Presidency University, for 2013-14 and 2014-15.

7. PREVIOUS JOB EXPERIENCE:

(a) **Associate Professor** , Department of Economics, Jadavpur University, 24.8. 2006 to 29.6.2010

(b) **Reader**, Department of Economics, Jadavpur University, 24.8. 2004 to 23.8. 2006.

(b) **Selection Grade Lecturer**, Department of Economics, Jadavpur University, 27.7.2003 to 23.8. 2004

(b) **Senior Lecturer**, Department of Economics, Jadavpur University, 27.7.1998 to 26.7.2003

(c) **Lecturer**, Department of Economics, Jadavpur, University, 18.4. 1991 to 26.7.1998

8. EDUCATIONAL QUALIFICATION:

(a) M.Sc degree awarded from Calcutta university, 1st class.

(b) Ph.D degree awarded from Indian Statistical Institute Kolkata.

Thesis Title: Essays in Dynamic Disequilibrium Models, Supervisor : Professor Robin Mukherjee.

(c) Completed the “*Intensive Course on Computer Programming and the Data Analysis*” conducted by Computer Science Unit, Indian statistical Institute, Kolkata.

9. FIELD OF SPECIALISATION: Econometrics.

10. AREA OF INTEREST:

Econometrics; Macroeconomics; Empirical research on International Trade, Social Sector and Regional Development.

11. AWARD OF FELLOWSHIP:

Awarded Junior and Senior Research Fellow by the Indian Statistical Institute Calcutta for Ph.D. Programme.

12. TEACHING EXPERIENCE IN MULTIDISCIPLINARY COURSES:

- (a) Taught Bio-*Economics* Course in M.Tech in Biotechnology at Jadavpur University.
- (b) Taught *Energy- Economics* Course in M.tech in Energy Science at Jadavpur University

13. **ASSOCIATE EDITOR:** Trade and Development Review, e-journal , Department of economics, Jadavpur University

14. PUBLICATIONS:

A. BOOK AUTHORED:

- (i) Efficiency of Elementary Education in India : Empirical Evidence Using a Nonparametric Data Envelopment Approach, Springer, 2017
- (ii) ***Growth Productivity and Efficiency of Indian Manufacturing Industries***, LAP LAMBERT Academic Publishing Germany, 2012(coauthored with Paramita Roy Biswas), 2012
- (iii) ***Globalization, Agricultural Production and Food Security in India***, Deep and Deep Publication, New Delhi, 2011

B. BOOK EDITED :

- (i) ***Themes on Quantitative Economics***, Allied Publishers, New Delhi in collaboration with Jadavpur University, 2014.
- (ii) ***Some Contemporary Issues in Development and Growth Economics***, Allied Publisher, New Delhi, in collaboration with Jadavpur University, 2010.

C. ARTICLES IN INTERNATIONAL REFEREED JOURNAL :

1. Non CO₂ Emission from cropland based agricultural activities in India : A Decomposition Analysis and Policy Link, ***Journal of Cleaner Production***, Vol 225, 637-646,Elsevier, 2019. ”(coauthored with S. Shome and J. Roy)
2. Is there Improvement in Total Factor Productivity Growth of the Indian Pharmaceutical Industry after TRIPS agreement? Evidence from Biennial Malmquist Index), ***Central European Review of Economics and Management***., Vol. 2, No. 3, 53-77, September 2018 , ISSN 2543-9472; e ISSN 2544-0365 (coauthored with D.Pal and C.Chakrabarty)
3. A Dynamic Economic Model of Soil Conservation and Drought Tolerance involving Genetically Modified Crops, ***Journal of Social and Economic Development*** 18 (1-2), 40-66, Springer., 2016. (coauthored with A.Chatterjee),
4. Trade and Distributional Impacts of Genetically Modified Crops in India: A CGE Analysis,(***Margin: The Journal of Applied Economic Research*** 10 (3), 381-407 Sage, 2016. (coauthored with A.Chatterjee and S. Pohit)
5. Expectation Formation in New Keynesian Economy Framework: Evidence from Laboratory Experiment ***Journal of the Knowledge Economy***, vol. 9(1), pages 17-39, March. ***Springer*** , Portland International Center for Management of Engineering and Technology (PICMET), DOI: 10.1007/s13132-015-0314-z(coauthored with G. Gupta and A. Das)
6. Monetary Policy Design Formation in New Keynesian Economy Framework: Evidence from Laboratory Experiment, ***Macroeconomics and Finance in Emerging Market Economies***, Vol 9 (2), 204-216, Routledge, Taylor & Francis Group DOI: 10.1080/17520843.2015.1103767(coauthored with G. Gupta and A. Das)
7. “Production Efficiency in Indian Agriculture: An Assessment of the Post Green Revolution Years”, ***Omega***,44 , 58–69, 2014,Elsevier. (coauthored with Subhash Ray)

8. "Measurement and Determinants of Hospital Efficiency in West Bengal", *Journal of Asian Public Policy*,1-14, **2014**.Routledge, Taylor & Francis Group, (coauthored with A.Dutta, S.Bandopadhyay)
9. "Government Size and Economic Growth in emerging market Economies : A Panel Co-integration Approach", *Macro Economics and Finance in Emerging Market Economies*, 6(1), 14-38, **2013**, Routledge, Taylor & Francis Group. (coauthored with S. Das)
10. "The Relative Role of Imports and Exports in Explaining Productivity of Bio-Pharmaceutical Firms : Evidence from Non Parametric Data Envelopment Analysis", *Foreign Trade Review*,**2013**, Sage Publication, (coauthored with C. Chakraborty)
11. "Inequality in child Mortality across Different states of India: A comparative Study", *Journal of Child Health Care*, 17(4), 397-409,Sage Publication, **2013**(coauthored with P. De)
12. "Bio economic Analysis of Marine Fish Production in West-Bengal", *Journal of Economics and Sustainable Development*, 14(4), 54-60, **2013** (coauthored with S. Jana)
13. "Efficiency of health care system in India : An interstate Analysis using DEA Approach", *Social Work in Public Health*,27, 482-506, **2011**, Routledge ,Taylor and Francis Group U.K. (coauthored with Parth De , and B.N.Bhattacharya)
14. "Total Factor Productivity Growth and its Determinants for West Bengal Agriculture", *Asian Journal of Agriculture and Development*, 8(1),39-56, **2011**, (coauthored with D. Bhattacharya)
15. "The Role of Trade Policy variables on Efficiency in West-Bengal Manufacturing Sector: Evidence from a Stochastic Production Function Approach", *Trade and Development Review*, 5(1), 1-36, 2011 (coauthored with P. Roy Biswas)
16. "Government Finances and Economic Growth: A Policy Prescription on the Developing Economy of Srilanka", *Asia-Pacific Development Journal* ,15(2) , 61-96, **2008**(coauthored with P. P. Ghosh, and D. Chakraborty)

D. ARTICLES IN NATIONAL REFEREED JOURNAL

1. "Growth of output and its determinants in Indian Pharmaceutical Industry : Evidence from a Panel regression", *Journal of Industrial Statistics*, Vol 6 (1), 108-122, 2017 (coauthored with C. Chakraborty)
2. "Role of Public Expenditure and Institutional reform in Explaining Technical Efficiency in Agriculture" : An Indian Experience, *Indian Journal of Agricultural Economics*, 71(1), 65-77.
3. "Allocation of Health Care Resources in Secondary Hospitals in West Bengal and their Technological Efficiency: A Note on Policy Prescription",*Arthavijnana*, 1, LV(1), 103-117, **2013**, (coauthored with A. Dutta and S. Bandopadhyay)
4. "Regional Disparity and convergence of growth of output of Indian Pharmaceutical Industry :Evidence Based on Structural Break Unit root Test", *The Journal of Industrial Statistics*, **2,2,195-207, 2012**.(coauthored with C. Chakraborty)
5. "Total factor productivity Growth in Pharmaceutical Industry: A Look Using Modern Time Series Approach With Indian Data", *The Journal of Industrial Statistics*,1(2), 250-268, **2012**. (coauthored with C. Chakraborty)
6. "Inter Industrial Variation of Productivity Growth in Indian Manufacturing Sector: Evidence from a Non parametric Approach", *Journal of Industrial Statistics*, 1(1),57-81, **2012**. (coauthored with P. Roy Biswas)
7. "Growth and Determinants of India's Export : The Role of World Demand and Competitiveness", *The IUP Journal of Applied Economics*, XI(4), 5-27,**2012**(coauthored with P. Banerjee)
8. "A Test of Endogenous Structural Break for Different Crops: A Case Study on West Bengal" *Arthavijnana*,LIII(2),136-155,**2011**. (coauthored with D. Bhattacharya)
9. " Intra industrial variation in total factor productivity growth in West Bengal Manufacturing : Evidence from West- Bengal Manufacturing", *Indian Economic Journal*, 59(2),29-50, 2011, (coauthored with P. Roy Biswas)
10. "Genetically modified crops : India and Global perspectives", *Asian Biotechnology and Development Review*, 12 (2), 69-105,**2010**, (coauthored with A. Chatterjee)

11. “Interstate Disparity in the Growth and Determinants of Wage Rate for Industrial Labor in India”, *Indian Journal of Labour Economics*, 50(4), 975-989, (coauthored with S. Roy)
12. “ Growth of Food Grains Production: An Inter District Comparison of West-Bengal Economy”, *Artha Beekshan*, 15(4), 216-233, 2007,
13. . “Inter District Disparity of Food Grains Production in West Bengal : Growth Instability and Determinants of Yield”*Artha Beekshan*, 14,(3&4), Dec 2005 and March 2006, pp. 293-312, (coauthored with Dipyaman Paul)

E. CHAPTERS IN BOOK

1. “Is there any decline in growth of rice production in Indian Agriculture in Post liberalization era : Evidence from Multiple Structural Break”(coauthored with D.Pal and C.Chakrabarty) in G. Chakrabarty , and C. Sen (ed), *The Globalisation Conundrum-Dark Clouds behind the Silver Lining*, Springer, Singapore, 2019
2. “Incidence of Specific or Employment Tax in Non- Walrasian Fixed Price Model with Efficiency Wage” ”(coauthored with S.Roy), in N.Bhanumurty et all (ed) , *Advances in Finance and Applied Economics*, Springer, Singapore, 2019.
3. “The Role of Trade Policy variables on Total Factor Productivity Growth in Indian Manufacturing Sector: Evidence from a Non-parametric Data Envelopment Approach”, in Vinish Kathuria, Rajesh Raj S.N. and Kunal Sen,(ed), *Productivity in Indian Manufacturing; Measurements, Methods And Analysis* , 238-265, **Rutledge.2014**(Co authored with P.Roy Biswas)
4. “ Access to Medicine in Public Hospitals and Management Issues'Developing country perspectives on public service delivery' in Anjula Gurtoo and Collin Williams (ed) *Developing Country Perspectives on Public Service Delivery*, Springer,2015 , (coauthored with A.Dutta, S.Bandopadhyay)
5. “Does Parental Education Have Any Role to Play on Female Child Disadvantage?”, in Swapnendu Banerjee, Vivekananda Mukherjee, Sushil K. Haldar (ed.) *Understanding Development: An Indian Perspective on Legal and Economic Policy*. India. Springer. 2015.(coauthored with S. Mandal)
6. “Some Further Evidence on the Factor Content of India’s Foreign Trade” in V.V.N.Somayajulu (ed) *Indian Economy and Economic Reforms : Economy –Wide Studies in Inter-Industry Frameworks*,1-31, Himalaya Publishing House.. New Delhi.2014, (coauthored with P. Dasgupta and D. Chakrabarty),
7. “Technical Efficiency of Indian Food Products industry: Evidence from a Stochastic Frontier Approach” , in P.Pal (ed) : growth and development : Emerging Issues., Reagal Publication, New Delhi, 2014, (coauthored with Paramita Roy Biswas).
8. “ Performance of Food Grains Production in West Bengal: An Analysis Based On Unit Root Structural Break Accepted for publication in M.Ghosh and A.K.Chattopadhyay (ed) *Rural Development in India: Challenges and Prospects*,63-74, Serials Publications. New Delhi, 2013. (coauthored with D Pal)
9. “Regional Disparity and Convergence of Growth Process of Indian Agricultural Sector”, in S.K.Haldar ,S.Mitra and T.K.Das (ed) *Disparity and Displeasure*, 47-66,acb publication, in collaboration with planning Development Unit, Jadavpur University, Kolkata, 2013, (coauthored with Dipyaman Paul)
10. “An Analysis of Inter District Disparity in Food grains Production”, R. K Sen and B.Chatterjee(ed), *Regional Disparities in Development*, Deep and Deep Publication. (coauthored with Dipyaman Paul)
11. “Deprivation and Neonatal Mortality: An approach to Evaluate Reasons Behind The Deprivation Leading to Mortality” in *Population, Poverty and Health : Analytical*

- Approaches*, edited by K.K. Singh, R.C. Yadava and ArvindPandey. , 112-131, New Delhi,2009 Hindustan Pub. (coauthored withPartha De, B.N. Bhattacharya)
12. A Simulation Exercise on the Sri Lankan Economy in the Keyens-Leontief Klien Framework,” in Inderjeet Singh and Anil Kumar Thakur(ed) ***Growth and Human Development : Economic Thoughts of Wassily W. Leontief***, 141-127, New Delhi, Deep and Deep Pub.,2008, (coauthored withParthaPratim Ghosh and Debesh Chakraborty)
 13. “Employment Growth and its Determinant : An Interstate Analysis”,in Ajitava Raychaudhuri and Jayashree Roy (ed), ***Development Challenges***, 117-170, Allied Publisher.2006 (coauthored withUttam Kumar Sikder)
 14. “Market Development in Medicinal Plants Sector- Some Strategic Consideration”, in ***Herbs in Health Care : Information Update***, (ed). Dr. S. K. Gupta et all, Ramkrishna Mission Ashram, Narendrapur, 2006.
 15. “The Fishery Scenario and the Marine Fishermen in WestBengal”, in AjitavaRayChaudhuri and T.K.Das (ed): ***The West-Bengal Economy : SomeContemporary Issues***, 379443,Allied Publisher, 2005.
 16. “In Search of a Subsidy Rule For India’s Export”, in H.W.Singer , N. Hati and R.Tandon (ed): ***North South Trade in Manufacturing***, Indus Publishing co. New Delhi, 1990 (coauthored withT. Dutta Chaudhuri

F. PAPERS IN CONFERENCE VOLUME

1. “Demand or Supply Determined System in the Indian Industrial Sector : A Test from an Econometric Disequilibrium Model,” in ***Conference Volume, “All India Conference Modeling Economic Behaviour and Policy,”*** organized by Dept. of Economics, Sri Sathya Sai Institute of Higher Learning, PrasanthiNilagam, Anantapur, AP

G. PROJECT ONGOING:

“Measurement and Determinants of Government and Government aided secondary and Higher Secondary Schools : An Application of Data Envelopment Approach”, funded by Planning and Development Unit, Jadavpur University, June 2019.

H. PROJECT COMPLETED:

- (i) **Project Title: “Economics of Education”**, project funded by UGC, UPE –II, JU, Principal Investigator, Completed in 2019.
- (ii) **Project Title: “Informal Industrialization”**, project funded by UPE –II, under Center for Studies in West-Bengal Economy as **Co-Principal Investigator**. Completed in 2015
- (iii) **Project Title: “Nexus Between the Female Child Disadvantage and the Level of Education :A Case Study of West Bengal”**, project funded by UPE –II, under Center for Studies in West-Bengal Economy, as **Co-Principal Investigator**, Completed in 2015.
- (iv) **Project Title: “A Study on the Relationship Between R&D Expenditure and Total Factor Productivity Growth of the Firm Level of the Indian Export Intensive Industries: A Nonparametric Approach”** ,Funded by, Indian Council of Social Science Research. Principal Investigator,(completed in 2013)
- (v) **Project Title: “Efficiency Analysis of Secondary level Government Hospitals”**, jointly with Department of Health and Family Welfare, Government of West Bengal, (**Co-Principal Investigator**) , Completed in 2011

- (vi) **Project Title: “Does Move to Market Increases Foreign Trade of Emerging Market Economy? Evidence From Unit Root Structural Break Test”,** Project funded by, UNCTAD-India, New Delhi, under the UNCTADJUECON Programme, Department of Economics, Jadavpur University,(Principal Investigator), Completed in 2009.
- (vii) **Project Title: “Sustainable Agriculture Food Security and Trade Policy”** funded by UGC under the Global Trade Programme , under the UGC Scheme of Potential for Excellence(UPE I), (Principal Investigator), Completed in 2007.
- (viii) **Project Title: “Socio Economic Aspects of Marine Fishermen in West-Bengal: A Case Study of Digha”,** financed by DSA Center for Regional Economic Studies,J.U,2002-2003(Principal Investigator.), completed in 2003.

16. RESEARCH GUIDANCE

A. PHD AWARDED:

1. **Thesis Title : Education and Gender Bias.**(single supervision), Name of the Scholar Soma Mondal, awarded in 2018
2. **Thesis Title: Efficiency Wage Hypothesis in Non-Walrasian Macro Economic Framework** .(single supervision),Name of the Scholar, Sucharita Roy, awarded in 2017.
3. **Thesis Title: Growth Volatility and Productivity in Indian Agriculture :A Crop wise Study.**(single supervision),Name of the Scholar, Dipyaman Pal, awarded in 2017.
4. **Thesis Title: Growth Productivity and Efficiency of Indian Biotechnology Sector.**(single supervision),Name of the Scholar, Chandrima Chakraborti, awarded in 2016
5. **Thesis Title: Growth Productivity and Efficiency of Indian Pharmaceutical Industry. Sector.**(single supervision),Name of the Scholar, Chandrima Chakraborty., awarded in 2016
6. **Thesis Title:Factor Content of India’s Foreign Trade During Pre Reform and Reform Period.** (joint supervision with Prof.D. Chakraborty),Name of the Scholar: ParamitaDasgupta, awarded in 2014.
7. **Thesis Title: .A Temporal and Spatial Dimensions of Under Five Mortality With Emphasis on Impact of National Health Pr: For the Period 1976-2004.**(joint supervision with Prof. B.N.Bhattacharya, Indian Statistical Institute, Calcutta), Name of the Scholar : Partha De, awarded in 2012.
8. **Thesis Title :Performance of West Bengal Industries During 1970-71-2001-0 :An Econometric Analysis** .(single supervision), Name of the Scholar :Paramita Das(Roy Biswas) (JRF/SRF, State Fellow), awarded in 2011.
9. **Thesis Title: Genetically Modified Crops, Agricultural Sustainability and Food Security** .(single supervision).Name of the Scholar Amrita Chatterjee (UGC-JRF/SRF) awarded in 2011.
10. **Thesis Title: The Structure And Growth of the Sri Lankan Economy in the Keynes – Leontief Framework**(joint supervision with Prof.DebeshChakraborty),Name of the Scholar : Sri ParthaPratim Ghosh, awarded in 2010 .
11. **Thesis Title :Performance of West Bengal Agriculture**), Name of the Scholar Debjani Bhattacharya, awarded in 2010.
12. **Thesis Title : .An Interstate Analysis of Performance of Indian Agriculture : Production and its Instability, Cropping Pattern,Yield and Total Factor Productivity Growth.**(single supervision),Name of the scholar: MadhumitaSengupta, awarded in 2009

B. PHD Ongoing : 5

C. M.Phil. AWARDED: 19

1. **Thesis Title : “Productivity of Indian Apparel Industry”,** thesis submitted by Sm. Sanchita De in May 2014 atJadavpur University, Viva completed in June 2014.

2. Thesis Title : “ Efficiency of Indian Textile Firms in the liberalized regime: A look through Non-Parametric Approach” , thesis submitted by Sm. PriyankaDasgupta, awarded in November 2010.
3. Thesis Title : “An Analysis of the Factors Influencing Export Performance of India: A Co integration Approach ” thesis submitted by Sm. MoumitaBasu awarded in November 2009.
4. Thesis Title : “Hetrogenetity in Inflation Expectations: An Experimental Economics Approach” thesis submitted by Sri . Abhishek Das awarded in November 2009.(Joint Supervision with Professor Gautam Gupta)
5. Thesis Title: “Construction of the Gender Related Development Index, Using Principal Component Analysis and its Determinants” by Sm. Sudeshna Sen awarded in November 2008.
6. Thesis Title : “Assessing the Long Run Relation Between Government Size and Economic Growth in Emerging Market Economies for the period 1970-2004: A Panel Co integration Approach” thesis submitted by Sm. Sutapa Das in September 2008 awarded in November 2008.
7. Thesis Title “The Use of Compound Disparity Index to Judge The Equity and Efficiency of Fund Allocation in The Health Sector : A Case Study for Different Sector in West Bengal” thesis submitted by Sm .SamarpitaDasgupta awarded in November 2007.
8. Thesis Title: “The Structural Change and the Determinants of India’s Export Performance” thesis submitted by Sm .Parthana Bhattacharya and awarded in November 2007..
9. Thesis Title: “Assessing the Relationship Between Financial Development and Economic Growth in India for the period 1963-2002 :Causality and Co integration Approach ” thesis submitted by Sm Sharmili Deb awarded in November 2006.
10. Thesis Title : “Food Grains Production in West-Bengal :An Econometric Analysis Using District Level Data For The Period 1960-2000” thesis submitted by Sri Dipyaman Paul, awarded in November 2005
11. Thesis Title : “Pharmaceutical Industry in India: A Quantitative Analysis” thesis submitted by Sm. ChandrimaChakrabarty and awarded in November 2005.
12. Thesis Title: “The Village Women in a Micro-Finance Programme and the Impact of The Programme On The Rural Well Being : An Experience From a NGO In West- Bengal”, thesis submitted by Sri Arindam Jana, awarded in November 2005.
13. Thesis Title: “ Bio-economic Analysis Of Marine Fish Production : A Case Study of West-Bengal”, thesis submitted by Sri Sajal Jana, awarded in November 2004.
14. Thesis Title: “A Disaggregate Study on the Growth Performance of Industrial Output and Employment in West-Bengal : The Impact of Liberalization, ”, thesis submitted by Smt. Paramita Das awarded in November 2004.
15. Thesis Title : “Interstate Variation of Industrial Output in India”, thesis submitted by Smt. SubhraChakrabarty , awarded in November 2003.
16. Thesis Title : “ Growth and Determination of Industrial Employment in India(1970- 71 to 1997-98 : An Interstate Analysis,” thesis submitted by Sri Uttam kumar Sikder and awarded in November 2002.

17. Thesis Title : “Growth process of West-Bengal Agriculture”, thesis submitted by Sri Ashok Biswas in Sept 2001 and awarded in Feb 2002.

18. Thesis Title : “Wage Efficiency Hypothesis in a Non-Walrasian Macro Model” thesis submitted by Smt. Sucharita Roy in Sept 2000 and awarded in February 2001.

19. Thesis Title : “Growth and Determination of Wage for Industrial labour in India : An Interstate Analysis”,thesis submitted by Smt, Satarupa Roy in Sept 2000 and awarded in Feb 2001.

17. INVITED LECTURES:

1. Delivered **Invited Lecture** on *Efficiency in Health Care System*, at the *Workshop on Advanced Tools and Techniques for Analysis of Demographic and Health Statistics*, organized by Population Studies Unit, Indian Statistical Institute Kolkata, on March 19, 2019.
2. Delivered **Key note paper** on *Challenges to Indian Industry*, at the 39th Annual Conference of Bangiyo Arthaniti Parishad on March 10, 2019.
3. Delivered **Invited Lecture** on *Generalized Method of Moments* at the UGC Sponsored Refresher course on Micro Econometrics, organized by the Department of Economics, Jadavpur University, in November, 2018.
4. Delivered **Invited Lecture** on Problem of *Simultaneity and Cross Correlation* at the UGC Sponsored Refresher course on Micro Econometrics, organized by the Department of Economics, Jadavpur University, in November, 2018.
5. Delivered **Invited Lecture** on *Proportional Hazard Model* at the UGC Sponsored Refresher course on Micro Econometrics, organized by the Department of Economics, Jadavpur University, in November, 2018.
6. Delivered **Invited Lectures** on Education *and Economic Growth*, at the National Conference on Indian Economy, organized by Department of Economics with Rural development, Vidyasagar University, September, 2017
7. Delivered **Invited Lecture** on Problem of *Simultaneity in Social Research* at the UGC Sponsored Short term Course on Research Methodology, organized by the Department of Economics, Jadavpur University on 14th January, 2017. .
8. Delivered **Invited Lectures** on Test for Regional Convergence: Indian Pharmaceutical Industry at the UGC Sponsored Refresher Course organized by Department of Economics, Calcutta University on 13th January, 2014.
9. Delivered **Special Lectures** on Interstate Variation on Efficiency of Elementary Education in India at the *National Conference on Indian Economy: Prospects and Challenges*, organized by Sri Satya Sai Institute of Higher Learning, Andhra Pradesh, February 21-22, 2014.
10. Delivered **Invited Lectures** on *Nonlinear Econometric Model* at the National Seminar on *Nonlinearity, Complex Dynamics & Chaos* jointly organized by Department of Applied Mathematics & Department of Economics, University of Calcutta , on March, 14 2014.
11. Delivered **Invited Lectures** on *General Linear Econometric Model* at the, UGC Sponsored Merged Scheme organized by Department of Economics with Rural Development, Vidyasagar University on March 20 , 2014
12. Delivered **Invited Lectures** on , *Time series Econometrics*, for PhD students organized by Department of Economics, Rabindra Bharati University on March 2014.
13. Delivered **Invited Lectures** on *Problems of Higher Education in Rural India* at the, NAAC Sponsored National Seminar , organized by Midnapoor college on 12th November, 2013.
14. Delivered **Invited Lectures** on *Data Envelopment Analysis* at the Workshop , organized by Department of Economics, Rabindra Bharati University on 19 th July 2013.
15. Delivered **Invited Lectures** on *Time Series Econometrics* at the Workshop , organized by Department of Economics, Presidency University on April 2013.
16. Delivered **Invited Lectures** on *Cox’s Proportional Hazard Model* at the, UGC Sponsored *Short term Course in Research Methodology*, organized by Department of Economics Calcutta University on March 25 , 2013

17. Delivered **Invited Lectures** on *Total Factor productivity Growth of Indian Agricultural Sector* at the, UGC Sponsored National Seminar on *Economic Development –Contemporary Issues*, organized by Department of Economics with Rural Development, Vidyasagar University on March 20 , 2013
18. Delivered **Invited Lectures** on *Nonlinear Economic Model* at the National Seminar on *Nonlinearity, Complex Dynamics & Chaos* jointly organized by Department of Applied Mathematics & Department of Economics, University of Calcutta , on March, 14 2013
19. Delivered **Invited Lectures** on *Time Series Econometrics* at the *PhD Course Work organized by Department of Economics, Rabindra Bharati University* on July, 2012.
20. Delivered **Invited Lectures** on *Total Factor Productivity Growth of Manufacturing in West-Bengal : From a Non Parametric Approach* at the UGC Sponsored National Conference on *Review of West-Bengal* organized by Forum of Development Economics Kolkata, a network jointly coordinated by Department of Economics, Calcutta University & Institute of Development Studies Kolkata , on 22 February , 2012
21. Delivered **Invited Lectures** on *Data Envelopment Analysis at the UGC Sponsored Refresher Course* on, organised by Department of Economics, Jadavpur University in December , 2011
22. Delivered **Invited Lectures** on *Macro Econometric Modeling* at the *UGC Sponsored National Conference* organized by Department of Economics, St. Xavier's College Kolkata on 19th July 2013.
23. Delivered **a set of Lectures** on *Simultaneous equation system* at the UGC Sponsored Refresher Course on *laboratory based Advanced Quantitative Techniques in Economics*, organized by Department of Economics, Jadavpur University on 19th February, 2011
24. Delivered Lectures on Time Series Econometrics at the UGC Sponsored Refresher Course on Globalisation and sustainability, organised by Department of Economics, Calcutta University on 18th July, 2011.
25. Delivered a set of Lectures on Simultaneous equation system at the UGC Sponsored Refresher Course on laboratory based Advanced Quantitative Techniques in Economics, organised by Department of Economics,, Jadavpur University on 19th February, 2011
26. Delivered invited lecture on “*Growth Process of Indian Pharmaceutical Industries*”, at a UGC Sponsored Seminar on Health Economics, organized by Umeshchandra College, on 9th January, 2010.
27. Delivered invited lecture on “ *Measurement of Productivity*” in a “Research Methodology Workshop on Quantitative Appraisal of Economic Issues”, organized by Department of Economics, Calcutta University, on 30 July, 2009
28. Delivered invited lecture on “*Econometric Method –Simultaneous Equation System*”, at the Research training Programme, on Theme International Trade Theory, Empirical Modelling and Data Analysis, under the UNCTAD-DFID-GOI Project on Strategies and preparedness for Trade and Globalisation in India, organized by Department of Economics, Jadavpur University on May, 2009. Delivered invited lecture on “*Analysis of Variance and Non Parametric Methods*”, in the Faculty Development Workshop, organized by ICFAI National College, Kolkata, during 2nd and 3rd June 2008.
29. Delivered invited lecture on “*Econometric Method –Simultaneous Equation System*”, at the Research training programme, on Theme International Trade Theory, Empirical Modeling and Data Analysis, under the UNCTAD-DFID-GOI Project on Strategies and preparedness for Trade and Globalization in India, organized by Department of Economics, Jadavpur University on 24th May, 2008
30. Delivered invited lecture on “*Productivity and Growth*” at the UGC Refresher Course in Economics, organized by the Department of Economics, Calcutta University in February, 2008. **Invited lecture** delivered at a *Training Programme on Monitoring and Evaluation on 13.2.07*, organized by **Institute of Applied Manpower Research, in collaboration with Planning Commission** ,at Administrative Training Institute, Salt Lake, Kolkata, during February 12-16, 2007.
31. **Invited lecture** delivered at Refresher Course entitled “*Economic Development and Indian Economic Problems*”, organized by Department of Economics, Jadavpur University on March 3- March 24, 1999.

32. **Invited lecture** delivered at Refresher Course entitled “*Mathematical Economics and Econometrics*”, organized by Department of Economics, Jadavpur University on December 22 – January 14, 1999
33. **Invited lecture** delivered at Refresher Course entitled “*Economic Theory and Quantitative Economics*”, organized by Department of Economics, Jadavpur University on January 7 – January 28, 1998

18 PRESENTING PAPERS IN THE CONFERENCE

A. PAPERS IN THE INTERNATIONAL CONFERENCE

1. **Total Factor Productivity Growth of Elementary Education in India and its Determinants**, paper presented at 16th International Conference on Data Envelopment Analysis (DEA2018) that will be held at Jiangnan University, China, from October 25-28, 2018.
2. **”Inter District Variation of Efficiency in Elementary Education in West Bengal”** paper presented at (i) the conference on West Bengal Economy, organized by the center for advanced Studies and the Centre for West Bengal Economy (under University of Potential for excellence, Phase II), Department of Economics, Jadavpur university, during 2-3 January 2015, and (ii) at the *4th West Bengal Growth Workshop*, organized by Sampling and Official Statistics Unit, Indian Statistical Institute, in collaboration with IGC and LSE during 26-27 December, 2014.
3. **“Interstate Variation on Efficiency of Elementary Education in India: Group Frontier and Meta Frontier Approach”**, paper presented at (i) *12th International DEA Conference held at Kuala Lumpur Malaysia, during April 15-17, 2014* and also at (ii) *the 50th Annual conference of the Indian Econometric Society, organized by Indira Gandhi Institute of Development and Research, December 22-24, 2013*.
4. **“Efficiency and its Determinants of Elementary Education in India”**, paper presented at *the CESI Annual International Conference, 2013, Department of Economics, Calcutta University, in association with Indian Statistical Institute Kolkata, Pratichi Institute and Institute of Development Studies Kolkata, December 28-30, 2013*.
5. **“The role of Research and Development, Advertisement and Marketing Expenditure in Explaining Efficiency of Indian Bio-Pharmaceutical firms: Evidence from Nonparametric Approach”**, presented at the *48th Annual conference of the Indian Econometric Society, organized by Puducherry University, during March, 2012*, coauthored with C. Chakrabarti.
6. **“The Role of Trade Policy variables on Total Factor Productivity Growth in Indian Manufacturing Sector: Evidence from a Non-parametric Data Envelopment Approach”**, Paper presented at the *International Workshop on Productivity in Indian Manufacturing*, Organised by IIT Mumbai, during 17- 18th March, 2011, coauthored with P. Roy Biswas.
7. **“Inter Industrial Variation of Productivity Growth in Indian Manufacturing Sector: Evidence from a Non parametric Approach”**, Paper presented at *National Seminar on Annual Survey of Industries: Strength and Weakness, organized by Central Statistical Organisation, New Delhi, 7th October, 2010*, coauthored with P. Roy Biswas.
8. **“Impact of trade liberalization on productivity growth of manufacturing sector: evidence from a non parametric approach with Indian data”**, paper presented **at the 18th International Input-Output Conference hosted by Integrated Sustainability Analysis (ISA) Research Group University of Sydney**, during 20-25 June 2010, coauthored with P. Roy Biswas
9. **“Models of correction of Input-output forecasts: experiments with Srilankan input-output data”**, paper presented at the *18th International Input-Output Conference hosted by Integrated Sustainability Analysis (ISA) Research Group University of Sydney*, 20-25 June 2010, coauthored with P.P. Ghosh & D. Chakraborty.
3. **“Impact of trade liberalization on productivity growth of manufacturing sector: evidence from a non-parametric approach with Indian data”**, paper presented at the *International Conference organized by Burdwan University* during 29-30 December 2009, coauthored with P. Roy Biswas,

4. "Performance and Prospects of a Developing Economy Analyzed in the Framework of Keynes – Leontief and Klien", Paper presented at **the 17th International Input-Output Conference, Department of Economics, San Paulo, Brazil**, during 13-17 July, 2009, coauthored with P.P. Ghosh and D. Chakraborty
5. "Pareto-Koopmans Efficiency and Input Specific Utilization Rates : An Inter State Analysis of Indian Agriculture", paper presentation at **the 5th International Symposium , on DEA held at the Indian Business School , Hyderabad**, January 5-7, 2007, coauthored with Subash Roy.
6. "Modelling the Performance of a Developing Economy: The case of Srilanka", paper presented at **16th International Input-Output Conference, Istanbul, Turkey**, 2-6 July, 2007, coauthored with P.P. Ghosh & D. Chakraborty.
7. "A Marine Fish Production in West Bengal : Application of a Bio-economic Model", paper presented at the **International Conference on Economics of Environment, Natural Resource and Energy, organized Centre for Advanced Studies ASIHSS Programme, Department of Economics, Jadavpur University**, during January 2-3, 2007, coauthored with S. Jana.
8. "**Modelling the Performance of a Developing Economy**", paper presented at the 43rd Annual Conference of the Indian Econometric Society, held at the Indian Institute of Technology, Powai, Mumbai, Coauthored with P.P. Ghosh, D. Chakraborty
9. " Impact of Biotechnology in Agriculture and the Consumers Acceptance Towards Genetically Modified Crops: Assessment from a Neoclassical Growth Model", paper Presented at the **2006 South and South East-Asia Econometric Society Meeting, held at The Institute for Financial Management And Research, Chennai**, Dec 18-20, 2006, coauthored with A. Chatterjee.
10. "**Interstate Disparity of Total Factor Productivity Growth in the Indian Agricultural Sector: A Non-Parametric Analysis Paper** accepted for presentation at **44th Annual Conference of the Indian Econometric Society held at the University of Hyderabad, during 3-5 January, 2008** coauthored with M. Sengupta.
11. "**Modeling the Performance of a Developing Economy**", paper presented at the **44rd Annual Conference of the Indian Econometric Society, held at the University of Hyderabad, during, 3-5, January, 2008**, coauthored with P. P. Ghosh, D. Chakraborty.
12. "An Interstate Comparison of the Impact of Liberalization on the Output of Indian Agricultural Sector: A Fresh Look Using Modern Time Series Approach", paper presented at **the 45th Annual Conference of the Indian Econometric Society (TIES) at Gauhati University, Gauhati (Assam)** from 8th to 10th January, 2009 coauthored with M. Sengupta, & D. Pal.
13. "**An Inter-temporal Comparison of The Structure of The Sri Lankan Economy from 1986 to 2000**" paper presented at **the 45th Annual Conference of the Indian Econometric Society (TIES) at Gauhati University, Gauhati (Assam) from 8th to 10th January, 2009**, coauthored with P. P. Ghosh and D. Chakraborty
14. "**Performance and Prospects of A Developing Economy Analyzed In The Framework of Keynes-Leontief and Klein** ", paper presented at the 45th Annual Conference of the Indian Econometric Society (TIES) at Gauhati University, Gauhati (Assam) from 8th to 10th January, 2009, coauthored with P. P. Ghosh and D. Chakraborty
15. "**Generalizations of the Neoclassical Two sector Growth Model : A Disequilibrium Approach**", paper presented the **International Conference " Model and Methods in Economics"**, organized by ISI Kolkata, **Jan 29- 31, 2002**
16. "A Two Sector Disequilibrium Growth Model", paper presented at the **International Conference " 1998 Meeting of the Econometric Society India and South- East Asia Chapter"**, organized by Indian Statistical Institute , New Delhi on 15-17th, Dec, 1998.
17. "Disequilibrium Model of the Industrial Sector : The Indian case" ,paper presented at the **International Conference , Recent Advances in Quantitative Economics, organized by the Indian Statistical Institute Bangalore Center** on March, 1998.

B. PAPERS IN THE NATIONAL CONFERENCE

1. **Total Factor Productivity Growth of Elementary Education in India** , Paper presented at 55th Annual Conference of the Indian Econometric Society, organized by Mumbai School of

- Economics and public policy and National Institute of Securities Market, Mumbai, January 8-10, 2019.
2. **“Total Factor Productivity Growth in Pharmaceutical Industry: A Look USING Modern Time Series Approach, Paper presented at *The Second National Seminar on Annual Survey of Industries, Organized by Central Statistical Office, Industrial Wing, Ministry of Statistics and Programme Implementation, 17 October, 2011,*(coauthored with C. Chakraborty).**
 3. **“Government Size and Economic Growth in Emerging Market Economy: A panel co-integration Approach”, ”,paper presented at the 12th Annual Conference on Money and Finance of the Indian Economy, held at Indira Gandhi Institute of Development Research, Mumbai, 10-12, 2010,** (coauthored with S. Das).
 4. **“Nexus between real effective exchange rate and total factor productivity growth in West Bengal’s manufacturing industries: Evidence from a non-parametric approach”,** paper presented at the 12th Annual Conference on Money and Finance of the Indian Economy, held at Indira Gandhi Institute of Development Research, Mumbai, 10-12, 2010, (coauthored with P. Das)
 5. **“Nexus between firm size and total factor productivity growth in West Bengal’s manufacturing industries: Evidence from a non-parametric approach”,** paper presented at the XVIIIth Annual Conference on Contemporary Issues in Development Economics Department of Economics, Jadavpur University,19-20 December, 2008, (coauthored with P. Das)
 6. **“A Test for Acceleration in the Growth of Food Grains Production: An Inter District Comparison of West-Bengal”**paper presented at the 27th Annual Conference of the Bangiya Arthaniti Parishad, ”held in February, 16-17,2007. (coauthored with D.Pal)
 7. **“Inter District Disparity of Food grains Production in West Bengal : Growth, Instability and Determinants of Yield”**paper presented at the 26th Annual Conference of the Bangiya Arthaniti Parishad, held in February,9-10,2006, Santiniketan.(coauthored with D. Pal)
 8. **“Demand or Supply Determined System in the Indian Industrial Sector: A Test from an Econometric Disequilibrium Model.”** paper presented in the International Conference “Modelling Economic Behaviour and Policy” held during 6-8 August 2005, at Dept of Economics, Sri Satya Sai Institute of Higher Learning, Presantheni Nilayam, Anantapur, AP.
 9. **Marine Fish Production in West Bengal Application of Bioeconomic Model”**paper presented in the National Seminar on “Decentralized Planning and Poverty Alleviation” organized by Vidyasagar University on 20th March, 2005 (coauthored with S. Jana)
 10. **“Wage Efficiency Hypothesis in a non –Walrasian Macro Model”,** paper presented at the National Conference “Issues in Development Economics”, organized by Kalyani University on 31st March, 2001(coauthored with S. Roy).
 11. **“Disequilibrium Model of the Industrial Sector : The Indian case”,**paper presented at the 7th Annual Conference Contemporary issues in Development Economics ,organized by Dept. of Economics, Jadavpur University., on 5-6th December,1997.

19. SEMINAR /CONFERENCE /ORGANISED

1. Acted as a Coordinator of the **One Day National Research Scholar Workshop**, organized by Centre for Advanced Studies, Jadavpur University, 15th March, 2019.
2. Acted as a Coordinator of **a Four Day Workshop on R-Software**, organized by the Centre for Advanced Studies , Jadavpur University, during 25th -28th March, 2019.
3. Acted as the joint **Coordinator of the National Conference on Social sector** , organized by Planning and Development Unit of NITI Aayog, ,Jadavpur University, on 26th March ,2018
4. Acted as a coordinator of **a Three Day Workshop on Computable General Equilibrium** , organized by Department of Economics , Jadavpur University, during 8th -10th , 2017.
5. Acted as the joint **Coordinator of the International 23rd Annual Conference on Contemporary issues in Development Economics**, organized by Department of Economics,Jadavpur University, on 2nd and 3rd January,2014..
6. Acted as the joint **Coordinator of the International Conference on Impact of Recent Financial crisis** organized by The Centre for Advanced Studies, Department of Economics,Jadavpur University on 7th and 8th January,2010.

7. Acted as the joint **Coordinator of the National Conference on International Trade, under the UNCTAD Programme** organized by the, Department of Economics, Jadavpur University on April, 2008.
8. Acted as the **Coordinator of the Workshop on “Data Envelopment Analysis”** conducted by Prof, Subhash Roy, University of Connecticut, USA and organized by Department of Economics, Jadavpur University under its ASHISS Programme, in June 2005
9. Acted as the **Coordinator of the Workshop on “Applied Econometrics”** conducted by Prof, T. Krishna Kumar, retired prof Indian Statistical Institute Bangalore and Organized by Department of Economics, Jadavpur University under its ASHISS Programme,
10. Acted as the **Treasurer** in the **“41st Annual Conference of the Indian Econometric society”**, hosted by the Dept. of Economics Jadavpur university, during January 20-22, 2005.
11. Acted as the **Coordinator of the “12th Annual Conference on Contemporary Issues in Development Economics”**, organized by the Department of Economics, Jadavpur University on 19th and 20th Dec 2002.
12. Acted as the **Joint Coordinator of “A Two-day Ph.D Research Scholars Workshop”** on 15th and 16th September 2000 organised by DSA Centre for Regional Economic Studies, Dept of Economics Jadavpur University
13. Acted as the **Joint Coordinator of “A Two-Day Inter University/ Institute Ph.D Research Scholars Workshop** on 5th and 6th October 2001 organized by DSA Centre for Regional Economic Studies, Dept of Economics, Jadavpur University.
14. Acted as the Joint Coordinator of a one day Work-shop on “Issues in Regional Economics”, **organized by the DSA Centre for Regional Economic Studies, Dept. of Economics, Jadavpur University.**
15. Acted as the Treasurer **in the “16th annual conference of Bangiya Arthaniti Parishad” hosted by the Dept. of economics, Jadavpu University, during February 1996.**

20. REFRESHER COURSE/SHORT TERM COURSE ORGANISED

1. Acted as the Coordinator of the UGC-HRDC sponsored *Short term Course on Research Methodology* organized by, Department of Economics, Jadavpur University, from 14th March - 19th March, 2016.
2. Acted as the joint Coordinator of the UGC sponsored *Refresher Course on Laboratory Based Advanced Quantitative Technique in Economics*, organized by Department of Economics, Jadavpur University, from February 15- March 8 2011.
3. Acted as the Coordinator of the UGC sponsored Refresher Course on Mathematical Economics and Econometrics, **organized by Department of Economics, Jadavpur University, from December 22, 1998- Jan 14, 1999**

21. CONTRIBUTION TO CONTINUING EDUCATION:

Acted as the **Joint convener** of the course on *“Applied Managerial Economics”* Offered by the Dept. of Adult Continuing Education, Jadavpur University, from August –December 2002, and also **resource person of that course**

22. REFEREE FOR :

- India Growth and Development Review
- Journal of Quantitative Economics
- Trade and Development Review
- Macro Economics and Finance for Emerging Market Economy
- Indian Economic Journal.
- Arthaniti
- Springer Books.

23. MEMBERSHIP FOR ACCADEMIC ORGANISATION :

- Life Member of the Indian Econometric Society.
- Life member of The Indian Statistical Institute
- Life Member of the Indian Economic Association.
- Life Member of Indian Labour Economic Association.

24. OTHER ACADEMIC /ADMINISTRATIVE CONTRIBUTIONS :

- Nominated as the Executive Member of The Indian Econometric Society ; Since 2012-13 till date.
- Nominated as a member of Departmental Research Committee, Presidency University, since 2018.
- Nominated as a member of Departmental Research Committee, Kalyani University, since 2019.
- Nominated as a member of the Board of Research Studies, Burdwan University, since 2016.
- Acted as a Head Department of Economics, Jadavpur University from August 1 2016- August 1 2018.
- Member of the Departmental Research Committee, Jadavpur University ; 2009 -2012 and from 2014 till continuing.
- Member of the examination committee, Department of Economics, Jadavpur University, since 2001 till continuing.
- Member of the Doctorate Committee, Faculty of Arts Jadavpur University ; 2009-2012 and from 2014-2018.
- Member of the Faculty Council of Arts, Jadavpur University during 2006-2010 and from 2016-2018.
- Member of the Court, Jadavpur University from August 2, 2016- August 1, 2018.
- Member of the Executive Council, Jadavpur University, February- August 1, 2018.
- The Coordinator of the M.Phil (Economics) Programme. Jadavpur University, till continuing.
- Acted as the external examiner for Satya Sai Institute of Higher Learning, Andhra Pradesh, Kalyani University, Burdwan University, Visva-Varati University , Santiniketan, Calcutta University and Presidency University.
- Acted as a member of Moderation Committee, Burdwan University , Rabindra Bharati University, Calcutta University, Vidyasagar University
- Nominated as an External member of the Undergraduate Board of Studies, Calcutta University since 2017