# Satya P. Das

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Born: 1953

As of March 2024

# **Current Affiliation**

Since Feb-2020 Courtesy Faculty, University of South Florida

# **Positions Held (Regular)**

| 1995-2016 | Professor, Indian Statistical Institute - Delhi Centre   |
|-----------|--|
| 1987-1995 | Professor, Indiana University - Bloomington, IN          |
| 1984-1987 | Professor, University of Wisconsin - Milwaukee           |
| 1981-1984 | Associate Professor, University of Wisconsin - Milwaukee |
| 1978-1981 | Assistant Professor, University of Wisconsin - Milwaukee |

# **Visiting Positions**

| Aug '15 - May '18 | University of Illinois at Urbana-Champaign              |
|-------------------|---|
| Jan-Mar 2011      | Utkal University, India                                 |
| Jan-Mar 2010      | Xaviers Institute of Management, India                  |
| June 2009         | Universidad Carlos III de Madrid                        |
| Jan-May 2008      | City University of Hong Kong                            |
| July 2007         | Universidad Carlos III de Madrid                        |
| Jan-Mar 2006      | Kobe University   |
| Sem 2, 2002-03    | Southern Methodist University                           |
| May-June 2002     | University of Konstanz                                  |
| June-July 2001    | CORE and IRES, Catholic University of Louvain           |
| July 2001         | Economic Policy Research Unit, University of Copenhagen |
| June-Aug 1998     | Kobe University   |
| Sep '92-May '93   | Indian Statistical Institute - Delhi Centre             |
| Sem 1, 1983-84    | University of Wisconsin-Madison                         |
| Sem 2, 1977-78    | Slippery Rock State College                             |

### Education

| 1977 | Ph.D., Economics, Southern Methodist University, U.S.A. |
|------|---|
| 1974 | M.A., Economics, Delhi School of Economics, India       |
| 1972 | B. A., Economics, Utkal University, India               |

### **Fields of Research Interest**

International Trade Economics of Terrorism Growth & Development Macro & Business Cycles

### **Research, and Book Writing Agenda**

In the next five years, my objective is to accomplish research two separate areas, (a) economics of terrorism and (b) service sector and trade in services, and write three books.

**Economics of Terrorism:** In my previous research I've tried to understand how defensive and offensive counter-terror (CT) measures may work in different scenarios. For instance, in the face of an exogenous increase in militancy or terrorism, is it rational/optimal for target countries to step up both defensive and offensive measures? According to my previous research it is always optimal to enhance security-deterrence (defensive) measures as terrorism increases (in terms of a decline in the marginal cost of 'producing' terror), but stepping up offensive or preemptive measures may not always optimal. In other words, offense may not always be the best defense.

Existing theoretical work of terrorism till date that have attempted to model the behavior of terror organizations (including my own research) have almost exclusively assumed that the objective of a terror organization is to inflict damage on target countries, i.e., terror organizations derive "utility" from the expected damage that they inflict upon the target countries by use of terror inputs that are costly. However, terrorism (as opposed to other forms of violence, e.g., homicide) is defined in terms of a long term political or ideological goal by individuals or organizations who use terror as a (short term) means to an end. The U.S. Department of Defense describes terrorism as "the calculated use of unlawful violence or threat of unlawful violence to inculcate fear, intended to coerce or to intimidate governments or societies in the pursuit of goals that are generally political, religious, or ideological."

My recent research builds a novel two-sided asymmetric-information game model between a terror organization and a target country that precisely deals with such long term objective of terror groups. Unlike earlier literature, a terror organization does not derive directly utility from damage caused by terror: terror is used as a means to coerce a target country to redress their grievances, where redressing grievances is termed as preventive measures.

In the **International Journal of Economic Theory** paper published online in December 2019, "**Why Direct Counter-Terror (CT) Measures Only May Fail: An Analysis of Direct and Preventive CT Measures**," a joint work with Sajal Lahiri at the Southern Illinois University, we have articulated a situation where the war on terror cannot be won by preemptive measures only, but can be, if these measures are combined with preventive measures. The abstract of this working paper is as follows: Abstract: We present a model of three-period game between a terrorist organization (Org) and a defending state (State), where the Org chooses aggregate terror input and the State chooses (a) the level of preemptive measures which shift the marginal cost curve facing the Org and hence affect the supply curve of terror, and (b) the level of redressal of grievances of the Org's population which affects the derived demand for terror as a means to an 'end' (demand). (a) and (b) are interpreted respectively as direct and preventive counter-terrorism (CT) measures (equivalently as stick and carrot policies). There is two-sided asymmetric information: the Org and the State do not fully know each other's preferences. A central result is an 'impossibility theorem' that the State cannot win the war on terror with preemptive measures only as long as the marginal cost of preemptive measures is increasing. In general, the optimal response of the State to an exogenous increase in terrorism or militancy is to increase preemption as well as grant more grievance redressal. Hence, direct and preventive CT measures complement each other towards countering terrorism: they are not substitutes. The core model is extended to consider an increase in terrorism due to anger and frustration arising from collateral damage associated with preemptive strikes, the presence of heterogeneous groups within a terrorist organization such as moderates and hardliners, a piecemeal conciliatory offer of less preemption and more grievance redressal by the State, and Bayesian learning by the Org of the preference of the State if the State grants any further grievance redressal.

*A Book on Economic Analysis of Terrorism:* Based on my research — and more so on my teaching of Terrorism at the upper undergraduate level at UIUC over six semesters — I have written the draft chapters. I expect to publish it very soon.

**Trade in Services:** It is well-known that importance of services in total trade has been growing — and more and more data is being available on trade in services. In recent years, world manufacturing trade to world GDP ratio has flattened but world trade in services to world GDP ratio continues to rise. It is somewhat surprising that current theoretical and quantitative (empirical) literature on trade mostly attempt to understand trade in manufactures or trade in "goods" as opposed to services.

I wish to understand how trade in services may be related to, yet differentiated from trade in manufactures. In a working paper joint with Scott Bradford (Brigham Young University) and Anuradha Saha (Ashoka University), a version of which is available, we demonstrate a contrast in the pattern of comparative advantage in manufacturing vis-a-vis services across countries: Larger countries and/or larger per-capita countries tend to have comparative advantage in manufacturing whereas smaller and/or smaller per-capita countries tend to comparative advantage in services. Put differently, the comparative advantage index (measured by Balassa's revealed comparative advantage) in services is negatively related to country size and per-capita income, whereas comparative advantage index in manufacturing is positively related to country size and per-capita income. The first part of the paper contains theory that derives these patterns. It explores two reasons behind such differential trade patterns: demand bias in consumption towards services relative to manufacturing resulting from non-homothetic preference, and, a higher degree of national product differentiation in services than in manufacturing. The second part presents formal empirical evidence that support these hypotheses.

In another working paper just accepted for publication, "Determinants of Bilateral Trade in Manufacturing and Services: A Unified Approach," written jointly with Vinicios P. Santa'Anna of University of Illinois, we try to understand how bilateral trade in these two product categories are explained by scale and trade cost variable and what the differences between them are. A major innovation in the paper lies in bringing out the role of bilateral internet link between trading countries as a factor influencing bilateral trade in both product categories.

*A Research Monograph on Trade in Services:* Apart from the paper discussed above, I have other research plans on trade in services. Once I have three or four completed papers, I intend to write a monograph.

*Second Edition of a text on Economics for Managers:* I am coauthoring the second edition with Dr. J. K. Goyal of Jagan Institute of Management, New Delhi, India. The first edition, authored by me, is titled *Microeconomics for Managers*.

### **Teaching Experience**

#### **University of Illinois at Urbana-Champaign** *Graduate and Undergraduate*

2015-18 International Trade - Ph.D. Apart from traditional competitive models of trade like Ricardian, Heckscher-Ohlin and sector-specific, and, models of imperfect competition, scale economies and product differentiation, it covered the Eaton-Khortum model, the Melitz model, the Yeaple Model, the Arkolakis-Constinot-Rodriguez-Clare Theorem, different generations of gravity models as well as some aspects of commercial policy including rationale behind the principles of WTO. Except for the last, each topic was discussed in two parts: theory and empirics.

International Trade - Masters. It covered various comparative advantage models – Ricardian, Heckscher-Ohlin and sectors-specific with lots of examples — trade policy for small and large countries and under competitive and non-competitive markets, various indices of trade competitiveness, trade under imperfect competition and welfare gains in terms of gain in product variety and productivity, international outsourcing, gravity models of trade.

Economics of War and Terrorism - Higher Undergraduate. Definition of terrorism as a means of violence, why rational behavior can be applied to understand terrorism, various facts and figures about global terrorism, different terror organizations, their origin and objectives, Kruger and Robert Pape's research on what drives terrorists and suicide terrorism in particular, Landes' model of skyjacking, interdependence among target countries in terms of security-deterrence and preemptive measures, game models between target countries and terror organizations, an analysis of preemptive and preventive counter-terror measures, terror cycles, Lanchester's combat models, Richardson's models of arms build-up, Intriligator-Brito model of missile wars, Robert Autmann's war and peace game model, economic efficiency of army recruitment methods, a model of military coup, civil war, ethnic conflict.

Economics of Financial Markets - Higher Undergraduate Overview of the U.S. Financial System, Asset classes, instruments and financial markets, financial intermediaries, expected utility hypothesis, risk-aversion and mean-variance space, portfolio theory and single index model, capital asset price model, arbitrage theory and multi-factor models of risk and returns, efficient market hypothesis, behavioral finance, equity valuation, fixed-income securities and interest rates, pricing of futures, forwards and swaps, option pricing, credit derivatives, financial crises and the role of financial markets in the Great Recession, noncoventional monetary policy, finance-sector reforms and regulations

### **Indian Statistical Institute - Delhi Centre** *Graduate Level*

1995-2014 Theory of Finance I Microeconomic Theory Macroeconomics I & II International Trade

# New Delhi & Odisha, India

Primary, Middle and High School

2006, 2010-2011 Spoken English

### **University of Wisconsin-Milwaukee, Indiana University-Bloomington** *Undergraduate*

1978-1995 Economic Statistics Price Theory Macro Principles Micro Principles

# University of Wisconsin-Milwaukee, Indiana University-Bloomington, City University of Hong Kong Higher Undergraduate

1978-2008 International Finance International Trade International Economics - combination of trade and finance Managerial Economics for Business students

### **University of Wisconsin-Milwaukee, Indiana University-Bloomington, Indian Statistical Institute, University of Konstanz, Southern Methodist University** *Graduate*

1978-Present Advanced Macro Theory Advanced Mathematical Economics Development Economics Finance: Asset Pricing, Options etc. International Trade Theory International Trade: Seminar International Trade and the Labor Market International Finance Micro Theory Macro Theory

## **Book and Monograph Publications**

| 2024 Textbook | Business Environment: The Essential Economic Ecosystem, Taxmann, New Delhi,      |
|---------------|--|
|               | India for BBA and MBA students   |
| 2024 Textbook | Economics for Managers: Concepts and Implications, Taylor & Francis, for BBA and |
|               | MBA students   |
| 2022 Textbook | Economics of Terrorism: History, Theory and Evidence, Springer                   |
| 2022 Textbook | Managerial Economics, coauthored with Dr. Jugal K. Goyal, 2nd edition of Microe- |
|               | conomics for Business, Sage Publications, New Delhi                              |

| 2007 Textbook  | Microeconomics for Business, Sage Publications, New Delhi, for B.B.A. and B. Com.   |
|----------------|---|
|                | students  |
| 2002 Textbook  | Introductory Microeconomics, NCERT, New Delhi, 170 pages, for Class XII             |
| 1993 Monograph | New Perspectives on Business Cycles: An Analysis of Inequality and Heterogeneity,   |
|                | Edward Elagar Publishing Ltd., Aldershot, Hants, England, 239 pages; Reviewed       |
|                | in (a) Journal of Economic Literature, March 1995, by S. Gilchrist and (b) Southern |
|                | <i>Economic Journal</i> , July 1994, by H. Sonmez Atesoglu                          |

# **Publications in Journals**

### **International Trade**

| 2023 | Determinants of Bilateral Trade in Manufacturing and Services: A Unified Approach, <i>Economic Modelling</i> , forthcoming, coauthored with Vinicios Sant'Anna   |
|------|--|
| 2012 | International Trade and Polarization in the Labor Market, <i>Economics: The Open-</i><br><i>Access, Open-Assessment E-Journal</i> , Vol. 6, 2012-6.  |
|      | http://dx.doi.org/10.5018/economics-ejournal.ja.2012-6   |
| 2008 | North-South Trade and Pollution Migration: the Debate Revisited, <i>Environmental and Resource Economics</i> , 40, 139-164, coauthored with Meeta Mehra  |
| 2006 | Endogenous Trading Bloc Formation in a North-South Global Economy, <i>Cana-</i><br><i>dian Journal of Economics</i> , 39, 809-830, coauthored with Subhadip Ghosh  |
| 2006 | Trade, Skill Acquisition and Distribution, <i>Journal of Development Economics</i> , 81, 118-141   |
| 2005 | Gradual Globalization, and Inequality between and Within Countries, <i>Canadian Journal of Economics</i> , 38, 852-869   |
| 2004 | Welfare Cost of Import Protection: Some Selected Estimates, <i>Economic and Polit-ical Weekly</i> , 39, 2055-2060  |
| 2003 | Trade and Relative Wages in a Global Economy, <i>Review of International Economics</i> , 11, 397-411   |
| 2003 | International Joint Venture and Host-Country Policies, <i>Japan Economic Review</i> , 54, 381-394, co-authored with Seiichi Katayama   |
| 2002 | Direct Foreign Investment and Relative Wages in a Developing Economy, <i>Journal of Development Economics</i> , 67, 55-77  |
| 2001 | Trade and Relative Wages: The Role of Supervisory Function by Skilled Workers,<br><i>European Economic Review</i> , 45, 45-65  |
| 2001 | International Trade and Personal Distribution of Income and Wealth: Beyond the Stolper-Samuelson Theorem," <i>Pacific Economic Review</i> , 6, 1-23. Reprinted in S. Katayama and K. Miyagiwa, edited, <i>New Developments in International Trade: The-</i>                  |
|      | <i>oretical and Empirical Investigations</i> , Kobe University, The Research Institute for Economics and Business Administration, 2003   |
| 2001 | Endogenous Distribution and the Political Economy of Trade Policy, <i>European Journal of Political Economy</i> , September 2001, 465-491, reprinted in S. Katayama and H. W. Ursprung, edited, <i>International Economic Policies in a Globalized World</i> , Springer 2004 |
| 2001 | Optimal Pollution Standard in an Open Economy: Characterizing Environmental Diversity," <i>Review of International Economics</i> 9, 429-442  |
| 2001 | Asymmetric Information and International Mergers, <i>Journal of Economics and Management Strategy</i> , 10, 565-590, coauthored with Sarbajit Sengupta   |
| 2000 | Trade Among Similar Countries and Personal Distribution of Income and Wealth,<br><i>Economica</i> , 67, 265-281  |
| 1999 | Direct Foreign Investment Versus Licensing, <i>Review of Development Economics</i> , 3, 86-97  |

| 1998 | On the Choice of International Joint Venture: The Role of Policy Moral Hazard,<br><i>Journal of Policy Peterm</i> 2, 135, 150   |
|------|---|
| 1997 | <i>Journal of Policy Reform</i> 2, 135-150<br>Strategic Managerial Delegation and Trade Policy, <i>Journal of International Eco-</i>  |
| 1557 | nomics, 43, 173-188   |
| 1996 | Host-Country Policy, Transfer Pricing and Ownership Distribution in International<br>Joint Ventures: A Theoretical Analysis, <i>International Journal of Industrial Orga-<br/>nization</i> , 14, 345-364, coauthored with Y. Alsaadon; reprinted in N. Singh and S. |
|      | Marjit, edited, Joint ventures, international investment, and technology transfer,  |
|      | New Delhi: Oxford University Press, 2003  |
| 1996 | Incentive Pay, Worker Effort and Trade Protection, <i>Review of International Economics</i> , 4, 141-151  |
| 1994 | Quantitative Assessment of Tariff Endogeneity: Interwar vs. Postwar, <i>Economics Letters</i> , 44, 139-146, coauthored with Sanghamitra Das  |
| 1992 | Market Uncertainties and Cyclical Dumping, <i>European Economic Review</i> , 36, 71-82  |
| 1990 | Foreign Lobbying and the Political Economy of Protection," <i>Japan and the World Economy</i> , 2, 169-179  |
| 1989 | Oligopolistic Competition and International Trade: Quantity and Quality Restric-  |
|      | tions, <i>Journal of International Economics</i> , 27, 299-318, coauthored with Shabtai Donnenfeld  |
| 1987 | Welfare of Dumping Country, <i>Journal of Quantitative Economics</i> , 3, 13-34, coau-  |
| 1507 | thored with Adwait K. Mohanty   |
| 1987 | Trade Policy and Its Impact of Quality of Imports: A Welfare Analysis, Journal of   |
|      | International Economics, 23, 77-95, coauthored with Shabtai Donnenfeld  |
| 1986 | A Dynamic Analysis of Protection, Market Structure and Welfare, <i>International</i>  |
| 1000 | <i>Economic Review</i> , 27, 513-523, coauthored with Yoshio Niho   |
| 1986 | Optimal Restriction on Foreign Capital when Its Movements are Sluggish, <i>Journal</i> of International Economics, 21, 351-360  |
| 1984 | Dumping in International Markets and Welfare, <i>Journal of International Economics</i> ,   |
| 1504 | 17, 149-157, coauthored with with Adwait K. Mohanty   |
| 1983 | Optimal Tariffs on Final and Intermediate Goods, International Economic Review,   |
|      | 24, 493-508   |
| 1983 | Multinational Enterprise under Uncertainty, <i>Canadian Journal of Economics</i> , 16, 420-428  |
| 1982 | Economies of Scale, Imperfect Competition and the Pattern of Trade, <i>Economic Journal</i> , 92, 684-693   |
| 1981 | Foreign Borrowing and Optimal Intervention to Achieve Noneconomic Objectives, <i>Southern Economic Journal</i> , 48, 743-749  |
| 1981 | Effects of Foreign Investment in the Presence of Unemployment, <i>Journal of Inter-</i><br><i>national Economics</i> , 11, 249-257  |
| 1979 | On the Theory of International Trade with Capital Mobility, <i>International Economic</i>   |
| 1010 | <i>Review</i> , 20, 119-132, coauthored with Seung-Dong Lee   |
|      | International Finance   |
| 1990 | The Laursen-Metzler Employment Effect, International Economic Journal, Winter   |
| 1985 | Transaction Costs and the Interest Parity Theorem, <i>Journal of Political Economy</i> , 15, 793-799, coauthored with Mohsen Bahmani-Oskoee   |
| 1983 | International Investment and the Theory of Devaluation, <i>Journal of International Economics</i> , 15, 161-175, coauthored with Raveendra N. Batra   |
| 1982 | On the Effect of Tariff on Employment under Flexible Exchange Rate," <i>Journal of International Economics</i> , 12, 165-168  |
| 1980 | Traded Intermediate Products and the Theory of Devaluation," International Eco-   |

### nomic Review, 21, 317-330

# Growth, Development and Macro

| 2015         | Land Acquisition and Industrial Growth, <i>Indian Growth and Development Review</i> , 8, 163-183, coauthored with Anuradha Saha   |
|--------------|---|
| 2015         | Growth of Business Services: A Supply-Side Hypothesis, <i>Canadian Journal of Economics</i> , 48, 83-109, coauthored with Anuradha Saha   |
| 2011         | The Political Economy of Revenue Pressure and Tax Collection Efficiency, <i>Indian Growth and Development Review</i>  |
| 2008         | Advent of Mass Production: Three Stages of Economic Development, <i>The B.E. Jour-</i><br><i>nal of Macroeconomics</i> , Volume 8, Issue 1 (Topics), Article 24, coauthored with<br>Rudrani Bhattacharya  |
| 2006         | A Dynamic Analysis of Child Labor with a Variable Rate of Discount: Some Policy<br>Implications, <i>The B.E. Journal in Economic Analysis &amp; Policy</i> ), 5, Issue 1 (Contri-<br>butions), 2006, Article 25, coauthored with Rajat Deb  |
| 2005         | Vertical Diversity, Communication Gap and Equilibrium Growth, <i>The B.E. Journal</i> of <i>Macroeconomics</i> , Volume 5, Issue 1(Topics), Article 22  |
| 2004         | Endogenous Distribution, Politics, and the Growth-Equity Tradeoff, <i>The B.E. Jour-</i><br><i>nal of Macroeconomics</i> , Volume 4, Issue 1 (Contributions), Article 6, coauthored<br>with Chetan Ghate  |
| 1982         | Sector-Specific Minimum Wages, Economic Growth and Some Policy Implications, <i>Journal of Development Economics</i> , 10, 127-31   |
| 1981         | Technical Progress and the Skill Differential, <i>Economic Journal</i> , 91, 998-1005, coau-<br>thored with Richard Perlman and Jim Hughes  |
|              | Economics of Terrorism  |
| 2021         | Why Direct Counter-Terror (CT) Measures Only May Fail: An Analysis of Direct and Preventive CT Measures, <i>International Journal of Economic Theory</i> , December 2021, initially December 2019, DOI: https://doi.org/10.1111/ijet.12235, coau-   |
|              | thored with Sajal Lahiri  |
| 2014         | thored with Sajal Lahiri<br>Pre-Emption, Deterrence and Panic: A Common-Enemy Problem of Terrorism,<br><i>Economic Inquiry</i> , 52, 219-238, coauthored with Prabal Roy Chowdhury  |
| 2014<br>2008 | Pre-Emption, Deterrence and Panic: A Common-Enemy Problem of Terrorism,   |
|              | Pre-Emption, Deterrence and Panic: A Common-Enemy Problem of Terrorism,<br><i>Economic Inquiry</i> , 52, 219-238, coauthored with Prabal Roy Chowdhury<br>Some Mechanisms of Terror Cycle, <i>Journal of Economic Behavior and Organiza</i> -   |
| 2008         | <ul> <li>Pre-Emption, Deterrence and Panic: A Common-Enemy Problem of Terrorism, <i>Economic Inquiry</i>, 52, 219-238, coauthored with Prabal Roy Chowdhury</li> <li>Some Mechanisms of Terror Cycle, <i>Journal of Economic Behavior and Organization</i>, 67, 644-656</li> <li>Visa Screening and Collateral Import of Terrorism, <i>The B.E. Journal of Economic Analysis &amp; Policy</i>, 17, Issue 1 (Contributions), Article 53, coauthored with Sajal</li> </ul>  |
| 2008<br>2007 | <ul> <li>Pre-Emption, Deterrence and Panic: A Common-Enemy Problem of Terrorism, <i>Economic Inquiry</i>, 52, 219-238, coauthored with Prabal Roy Chowdhury</li> <li>Some Mechanisms of Terror Cycle, <i>Journal of Economic Behavior and Organization</i>, 67, 644-656</li> <li>Visa Screening and Collateral Import of Terrorism, <i>The B.E. Journal of Economic Analysis &amp; Policy</i>, 17, Issue 1 (Contributions), Article 53, coauthored with Sajal Lahiri</li> <li>A Strategic Analysis of Terrorist Activity and Counter-Terrorism Policies, <i>The B.E. Journal of Theoretical Economics</i>), 6, Issue 1 (Topics), Article 6, coauthored with</li> </ul>              |
| 2008<br>2007 | <ul> <li>Pre-Emption, Deterrence and Panic: A Common-Enemy Problem of Terrorism, <i>Economic Inquiry</i>, 52, 219-238, coauthored with Prabal Roy Chowdhury</li> <li>Some Mechanisms of Terror Cycle, <i>Journal of Economic Behavior and Organization</i>, 67, 644-656</li> <li>Visa Screening and Collateral Import of Terrorism, <i>The B.E. Journal of Economic Analysis &amp; Policy</i>, 17, Issue 1 (Contributions), Article 53, coauthored with Sajal Lahiri</li> <li>A Strategic Analysis of Terrorist Activity and Counter-Terrorism Policies, <i>The B.E. Journal of Theoretical Economics</i>), 6, Issue 1 (Topics), Article 6, coauthored with Sajal Lahiri</li> </ul> |

# Theory of the Firm and Industrial Organization

1996

|      | Dynamics of Entry and Exit of Firms in the Presence of Entry Adjustment Costs, <i>In-</i><br><i>ternational Journal of Industrial Organization</i> , 15, 217-241, coauthored with Sang- |
|------|---|
|      | hamitra Das   |
| 1991 | A Reply to 'A Note on the Effect of Rate-of-Return Regulation Under Uncertainty',<br><i>Journal of Regulatory Economics</i> , 3, 357-358  |
| 1990 | Dynamic Advertising and Limit Pricing, <i>Keio Economic Studies</i> , 1, coauthored with<br>Yoshio Niho   |
| 1981 | Long Run Behavior of a Monopolistically Competitive Firm, <i>International Economic Review</i> , 22, 159-165  |
| 1980 | On the Effect of Rate of Return Regulation under Uncertainty, <i>American Economic Review</i> , 70, 456-60  |
| 1980 | Further Results of Input Choices under Uncertain Demand, <i>American Economic Review</i> , 70, 528-32   |

### **Publications in Edited Volumes**

| 2003 | An India Perspective on WTO Rules on Foreign Direct Investment," in A. Mattoo<br>and R. M. Stern, edited, <i>India and the WTO</i> , World Bank and Oxford University<br>Press  |
|------|---|
| 2002 | North-South Trade and Pollution Migration: The Debate Revised" in L. Marsiliani,<br>M. Rauscher and C. Withagen, edited, <i>Environmental Economics and the Interna-</i><br><i>tional Economy</i> , Dordrecht: The Netherlands, Kluwer Academic Publishers, co- |
| 1991 | authored with Meeta Mehra<br>Comment on 'The Coefficient of Trade Utilization: The Cheese Case'" in Robert<br>Baldwin, edited, <i>Empirical Studies of Commercial Policy</i> , NBER, University of Chicago<br>Press   |

# **Publications in Newspapers, Preparation of Reports**

| 2010 | Helped prepare Economic Survey Orissa: 2009-10                                 |
|------|--|
| 1997 | Economic Maturity at 50, <i>Hindustan Times</i> , New Delhi, India, August 29  |
| 1995 | Lucas: A Honour 'Rational' Enough, The Economic Times, New Delhi, India, Octo- |
|      | ber 13   |

# **Work in Progress**

Comparative Advantage: Manufacturing versus Services, coauthored with Scott Bradford and Anuradha Saha International Trade in Commodities and Services: Static and Dynamic Effects,

International Trade in Commodities and Services: Static and Dynamic Effect coauthored with Anuradha Saha

# **Invited Talks and Presentations in Meetings and Conferences**

| Nov 2019   | Ravenshaw University, India  |
|------------|--|
| June 2018  | Western Economic Association Meetings in Vancouver, Canada                 |
| Jul 2017   | Conference on Research on Economic Theory and Econometrics (CRETE), Milos, |
|            | Greece   |
| Jan 2013   | Indian Econometric Society Meetings, Patna, India                          |
| Nov 2007   | Conference in Honor of Koji Shimomura, Kobe University, Japan              |
| Dec 2006   | South and South Asia Econometric Society Meetings, Chennai, India          |
| March 2006 | International Trade Workshop, Hitotsubashi University, Japan               |
| Feb 2006   | International Trade Conference, Kobe University, Japan                     |
|            |  |

| July 2003  | Conference on International Trade and Factor Mobility, Kansai, Japan                     |
|------------|--|
| Jan 2002   | American Economic Association and Econometric Society Winter Meetings, At-<br>lanta, USA |
| Aug 2000   | World Congress of the Econometric Society, Seattle, USA                                  |
| March 2000 | Conference on Trade and Political Economy, Kobe University, Japan                        |
| Dec 1999   | Conference on WTO and India, New Delhi, Organized by the World Bank                      |
| Dec 1998   | India and South East Asia Econometric Society Meetings, New Delhi, India                 |
| March 1998 | Conference on International Theory and Policy, Kobe University, Japan                    |
| Jan 1997   | Conference of Economic Theory and Policy, Indian Statistical Institute - Delhi Cen-      |
|            | tre  |
| Dec 1996   | South East Asian Econometric Society Meetings, India                                     |
| Jan 1996   | International Conference on Game Theory and Economic Applications, Banga-                |
|            | lore, India  |
| Dec 1995   | Conference of Economic Theory and Policy, Indian Statistical Institute - Delhi Cen-      |
|            | tre  |
| Jan 1995   | Econometric Society Meetings at the ASSA Meetings, Washington, D.C.                      |
| Oct 1994   | Midwest International Economics Meetings, Pennsylvania State University                  |
| Sept 1993  | Discussant at the Midwest International Economics Meetings, Madision, Wiscon-            |
|            | sin  |
| Feb 1993   | Speaker on International Trade at the International Trade and Growth session at          |
|            | the Indian Statistical Institute   |
| March 1990 | Discussant in the NBER Conference on Empirical Studies of Commercial Policy              |
| April 1989 | Midwest International Economics Meetings, Purdue University                              |
| Oct 1987   | Midwest International Economics Meetings, University of Michigan                         |
| Oct 1986   | Midwest International Economics Meetings, University of Pittsburgh                       |
| April 1986 | Midwest International Economics Meetings, University of Wisconsin-Madison                |
| Oct 1983   | Midwest International Economics Meetings, Northwestern University                        |
| April 1983 | Midwest International Economics Meetings, University of Illinois-Urbana-Champaign,       |
|            | April  |
| Dec 1981   | North American Econometric Society Meetings, Washington D.C.                             |
| Nov 1978   | Southern Economic Association Meetings, Washington D.C.                                  |
|            |  |

### **Editorial Duties**

| 2007-2014 | Founding Editor, Indian Growth and Development Review           |
|-----------|---|
| 2007-2011 | Associate Editor, Journal of Economic Behavior and Organization |

### **Referee Work**

American Economic Review, American Journal of Agricultural Economics, B.E. Journals in Macroeconomics, Canadian Journal of Economics, Economic Journal, European Economic Review, European Journal of Political Economy, International Economic Journal, International Economic Review, Journal of Development Economics, Journal of Economic Dynamics and Control, Journal of Economic Growth, Journal of International Economics, Journal of Public Economics, National Science Foundation, Quarterly Journal of Economics, Review of Economic Studies, Review of International Economics, Scandinavian Journal of Economics, Southern Economic Journal

### **Student Supervision**

#### Ph.D.

- 2015 Anuradha Saha, Indian Statistical Institute
- 2010 Rudrani Bhattacharya, Indian Statistical Institute
- 2004 Subhadip Ghosh, Indian Statistical Institute
- 2002 Meeta Mehra, Indian Statistical Institute
- 1995 Satarupa Das, Indiana University
- 1994 Krishna Srinivas, Indiana University
- 1993 Anjali Bhasin, Indiana University
- 1992 Yousef Al-Saadon, Indiana University
- 1986 Adwait Mohanty, University of Wisconsin-Milwaukee

Supervised Four Masters theses

Served as a committee member for several Ph.D. and Masters Students

### **Administrative and Other Work**

| 2011-2015 | <ul> <li>Head, Indian Statistical Institute - Delhi Centre</li> <li>Administrative Head of three academic departments (units): Economics and Planning Unit, Statistical Quality Control and Operations Research Unit and Theoretical Statistics and Mathematics Unit</li> <li>Management of administrative Staff over 50</li> <li>Despende bilities included biasen with the Director's office and the nodel Ministrative</li> </ul> |
|-----------|--|
|           | <ul> <li>Responsibilities included liaison with the Director's office and the nodal Ministry</li> <li>Ministry of Statistics and Programme Implementation, Government of India</li> <li>Represented Indian Statistical Institute - Delhi Centre at various consultive and advisory fora under the nodal Ministry</li> <li>Dealt with harassment and many legal issues</li> </ul>   |
|           | <ul> <li>Campus infrastructure was enhanced</li> <li>Room and common area innovations were undertaken</li> <li>Internet facilities were extended to administrative staff quarters</li> </ul>   |
| Dec 2006  | Program Committee for South and South Asian Econometric Society Meetings<br>held in Chennai, India   |

| 1997-1999 | Department Head, Planning Unit, Indian Statistical Institute - Delhi Centre    |
|-----------|--|
| 1980-90s  | Faculty hiring (several times), University of Wisconsin-Milwaukee and Indiana  |
|           | University   |
| 1980-90s  | Faculty Promotion Committee (several times), University of Wisconsin-Milwaukee |
|           | and Indiana University   |
| 1980s     | Graduate Studies Committee (several times), University of Wisconsin-Milwaukee  |
|           |  |