

# Ritabrata BOSE

## Academic Associate, Indian Institute of Management, Bangalore

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## RESEARCH INTERESTS

**Primary Fields** International Trade, Macroeconomics  
**Secondary Fields** Industrial Organization, Economic Geography

## EDUCATION

July 2018 August 2016	<b>M.PHIL. IN DEVELOPMENT STUDIES</b> , Indira Gandhi Institute of Development Research, Mumbai, India THESIS : <i>Market Structure, Profitability and Contract-worker Intensity : Analysis of Indian Organised Manufacturing Industries</i> SUPERVISOR : Prof. K. V. Ramaswamy <div>International TradeIndustrial OrganizationLabor EconomicsApplied EconometricsDynamic Panel Model</div>
May 2016 August 2014	<b>M.Sc. ECONOMICS</b> , Department of Economics, University of Calcutta, Kolkata, India GROUP PROJECT : <i>Understanding Middle Class with reference to recent trends in Indian Economy</i> SUPERVISOR : Prof. Sudakshina Gupta <div>International EconomicsAdvanced EconometricsLabour EconomicsPrimary Survey</div>
July 2014 August 2011	<b>B.Sc. ECONOMICS (HONS.)</b> , Department of Economics, University of Calcutta, Kolkata, India TERM PAPER : <i>Slums in Kolkata : A socio-economic analysis</i> SUPERVISOR : Prof. Santanu Ghosh <div>EconomicsMathematicsStatisticsPrimary Survey</div>

## EXPERIENCE

Apr 2019 - present (32 months+)	<b>Academic Associate, INDIAN INSTITUTE OF MANAGEMENT, BANGALORE, India</b> ➤ Research Assistant to PROF. KUNAL DASGUPTA ➤ Teaching Assistant to multiple professors <div>International TradeEconomic GeographyProduction NetworksGISNLPTutorial ClassesExam Grading</div>
Sep 2021 - Nov 2021 (3 months)	<b>Research Consultant, DAI RESEARCH AND ADVISORY SERVICES, India</b> ➤ Part-time short term research consultant to three projects. <div>Mental HealthRCTLarge Scale SurveyPrimary SurveyDevelopment Economics</div>
Feb - Apr, 2019 (3 months)	<b>Research Assistant, CENTRE FOR STUDIES IN SOCIAL SCIENCES, KOLKATA, India</b> ➤ Research Assistant to PROF. SAIBAL KAR <div>Survey DataLabour EconomicsHuman Migration</div>
Aug - Dec, 2018 (5 months)	<b>Visiting Faculty   Narsee Monjee Institute of Management Studies, MUMBAI, India</b> ➤ Taught graduate-level DEVELOPMENT ECONOMICS course at a leading AACSB accredited university ➤ Econometric Methodologies to pursue development economics research <div>Graduate Level CourseApplied EconometricsCausal Impact AnalysisHands-on R application</div>
Jan - Jun, 2018 (6 months)	<b>Graduate Teaching Assistant, INDIRA GANDHI INSTITUTE OF DEVELOPMENT RESEARCH, MUMBAI, India</b> ➤ Teaching Assistant to PROF. ASHIMA GOYAL <div>Tutorial classesExam GradingAssisting Group ProjectsProject Evaluation</div>
Aug - Dec, 2017 (5 months)	<b>Graduate Research Assistant, INDIRA GANDHI INSTITUTE OF DEVELOPMENT RESEARCH, MUMBAI, India</b> ➤ Research Assistant to PROF. C. VEERAMANI <div>International TradeAutomobile Industry</div>

May - Sep, 2014  
(5 months)

Undergraduate Research Assistant, UNIVERSITY OF CALCUTTA, KOLKATA, India

➤ Research Assistant to PROF. SANTANU GHOSH


Primary Survey

Socio-Economic Study

## WORKING PAPER

### ENFORCEMENT OF NON-TARIFF MEASURES : DOES IT MATTER?

2020

 IIMB Working Paper 611 (with Bernardo Blum and Kunal Dasgupta)

We use data and a textual analysis algorithm to uncover that at least 28% of the Singaporean imports are affected by per shipment compliance costs created by non-tariff trade barriers which in turn, have a large direct welfare effect on the economy, when the compliance creates a fixed cost.

International Trade

Per-shipment cost

Non-Tariff Barriers

Enforcement

Natural Language Processing

Theoretical Model

Quantitative Exercise

### GLOBALIZATION AND WORKFORCE COMPOSITION IN INDIAN FORMAL MANUFACTURING : NEW EVIDENCE ON PRODUCT MARKET COMPETITION CHANNEL

2020

 IGIDR Working Paper 2020-036 (with K.V. Ramaswamy)

We investigate the indirect impact of globalization on job quality (workforce composition) through changes in product market structure for the Indian formal manufacturing industries. We found that the firms responded to greater product market competition due to globalization by hiring relatively more contract workers. It enabled them to achieve labor market flexibility.

International Trade

Industrial Organisation

Segmented Labour Market


Formal Manufacturing Sector

Market Concentration

Dynamic Panel Model

### DISAGGREGATED INDIAN INDUSTRIAL CYCLES : A SPECTRAL ANALYSIS

2020

 IGIDR Working Paper 2020-033 (with Ashima Goyal)

First, we study the characteristics of asymmetric phase shifts and co-movement of industrial production cycles. Then we check the spectral causality of these cycles with various policy variables, which enabled us to explore the non-linear structure of the economy by computing Granger Causality for each frequency separately.

Industrial Cycles

Business Cycle Dating

Coherence

Spectral Causality

Co-movement

Lead/Lag Industries

Macroeconomic Stabilization

## PUBLISHED UNDERGRADUATE CASE-STUDY

### SLUMS IN KOLKATA : A SOCIO-ECONOMIC ANALYSIS

2015

 *Empirical Econometrics and Quantitative Economics Letters (EEQEL)* (with Santanu Ghosh)

This paper presents and discusses primary data from a survey of 96 households taken from five different slums of Kolkata. It attempts to examine the socio-economic aspects of slums surveyed in this paper in terms of income, education, savings, sanitation, financial inclusion etc. This is an exploratory paper and in no way conclude anything causal.

Socio-Economic Study

Social Geography

Urban Geography

Primary Survey

Urban Slums

## WORK IN PROGRESS

- Multiple Sourcing of Imported Intermediate Inputs
- Industrial Composite Indicators for India : A Frequency Approach (with Ashima Goyal)
- Central Bank Communication and Government Securities cycle (with Ashima Goyal)

## CONFERENCES AND WORKSHOPS

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|------|---|
| 2021 | <b>7th IIFT Conference on Empirical Issues in International Trade &amp; Finance, INDIAN INSTITUTE OF FOREIGN TRADE, Kolkata, India</b> <ul style="list-style-type: none"><li>➤ PAPER PRESENTATION : <i>Enforcement of Non-Tariff Measures : Does it matter?</i></li></ul>   |
| 2019 | <b>61st Annual Conference on Labour Economics, INDIAN SOCIETY OF LABOUR ECONOMICS, hosted by Punjabi University, Patiala, India</b> <ul style="list-style-type: none"><li>➤ PAPER PRESENTATION : <i>Globalization and Workforce Composition in Indian Formal Manufacturing : New evidence on product market competition channel</i></li></ul> |

First Workshop on Economic Impact of Non-tariff Measures (NTMs), ECONOMIC RESEARCH INSTITUTE FOR ASEAN AND EAST ASIA, Jakarta, Indonesia

- > PAPER PRESENTATION : *Enforcement of Non-Tariff Measures : Does it matter?*
- > PAPER DISCUSSANT : *Technical Regulations and Performance of Exporting Firms in India*

Brown Bag Series, INDIAN INSTITUTE OF MANAGEMENT, Bangalore, India

- > PAPER PRESENTATION : *Impact of Succession Rights on Child Health Outcomes in India*

5th IGC-ISI Summer School, INTERNATIONAL GROWTH CENTRE (IGC), New Delhi, India

- > SPEAKERS : Lakshmi Iyer, Aprajit Mahajan, Gaurav Chiplunkar and Namrata Kala
- > SELECTION BASED ON : *Globalization and Worker Composition in Indian Formal manufacturing : New Evidence on Product Market Competition Channel*

2018 | Workshop on KLEMS Database, RESERVE BANK OF INDIA, Mumbai, India

- > SPEAKERS : Viral Acharya, K.L. Krishna, B.N. Goldar, Suresh C. Aggarwal, Deb Kusum Das
- > SELECTION BASED ON : *Globalization and Worker Composition in Indian Formal manufacturing : New Evidence on Product Market Competition Channel*

2017 | XXVIIth Annual General Conference on Contemporary Issues in Development Economics, JADAVPUR UNIVERSITY, Kolkata, India

- > PAPER PRESENTATION : *Industrial Cycles in India : A spectral analysis (an earlier version)*

## REFEREE DUTY

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- > Journal of Asian Economics

## ACHIEVMENTS

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2018 | UGC-NET Qualified, UNIVERSITY GRANTS COMMISSION, India

2016-18 | M.Phil. Fellowship, INDIRA GANDHI INSTITUTE OF DEVELOPMENT RESEARCH, Mumbai, India

## SKILLS

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Statistical Softwares	Stata, R, GRET, EViews, ArcGIS, QGIS.
Programming Languages	Python, Julia, $\text{\LaTeX}$ , HTML, CSS, Markdown.
Machine Learning	NLP (Spacy, NLTK), TensorFlow, Linear/Logistic Regression, k-Nearest Neighbour, SVM, Naïve Bayes, Transformers (different variants of BERT, XLNet), Unsupervised Learning (Clustering), Active Learning Lifecycle, Optical Character Recognition (OCR).
Web Scraping	Selenium, Scrapy, Splash.
Operating Systems	Windows, Linux.
Languages	English (Fluent), Hindi (Professional), and Bengali (Native).