## Ritabrata Bose

## Academic Associate, Indian Institute of Management, Bangalore (IIMB)

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# **RESEARCH INTERESTS**

Primary Fields International Trade, Industrial Organization, Labor Economics

Secondary Fields Economic Geography, Transportation Networks, Business Cycles

# **m** EDUCATION

July 2018 | М.Рніс. ім Development Studies, Indira Gandhi Institute of Development Research, Mumbai, India

August 2016 | Thesis: Market Structure, Profitability and Contract-worker Intensity: Analysis of Indian Organised

Manufacturing Industries

SUPERVISOR: Prof. K. V. Ramaswamy

International Trade Industrial Organization Labor Economics Applied Econometrics Dynamic Panel Model

May 2016 | M.Sc. Economics, Department of Economics, University of Calcutta, Kolkata, India

August 2014 | GROUP PROJECT: Understanding Middle Class with reference to recent trends in Indian Economy

Supervisor: Prof. Sudakshina Gupta

International Economics Advanced Econometrics Labour Economics

July 2014 B.Sc. Economics (Hons.), Department of Economics, University of Calcutta, Kolkata, India

 August 2011
 Term Paper : Slums in Kolkata : A socio-economic analysis

SUPERVISOR : Prof. Santanu Ghosh Economics Mathematics Statistics

# **EXPERIENCE**

## Apr 2019 - present | Academic Associate, Indian Institute of Management, Bangalore, India

(21 months +)

(6 months)

(5 months)

> Research Assistant to Prof. Kunal Dasgupta

> Teaching Assistant to multiple professors

International Trade | Economic Geography | Production Networks | GIS | NLP | Tutorial Classes | Exam Grading |

Feb - Apr, 2019 | Research Assistant, Centre for Studies in Social Sciences, Calcutta, India

(3 months) Research Assistant to Prof. Saibal Kar

International Trade | Labour Economics | Human Migration

Aug - Dec, 2018 | Visiting Faculty, NARSEE MONJEE INSTITUTE OF MANAGEMENT STUDIES, MUMBAI, India

(5 months) Taught graduate level DEVELOPMENT ECONOMICS course at a leading AACSB accredited university.

> Econometric Methodologies to pursue development economics research.

Graduate Level Course | Applied Econometrics | Causal Impact Analysis | Hands-on R application

Jan - Jun, 2018 | Graduate Teaching Assistant, Indıra Gandнı Insтıтите оf DeveLopмent Research, Мимваı, India

> Teaching Assistant to Prof. Ashima Goyal

Tutorial classes Exam Grading Assisting Group Projects Project Evaluation

Aug - Dec, 2017 | Graduate Research Assistant, Indira Gandhi Institute of Development Research, Mumbai, India

> Research Assistant to Prof. C. Veeramani

International Trade Automobile Industry

May - Sep, 2015 Undergraduate Research Assistant, UNIVERSITY OF CALCUTTA, KOLKATA, India

(5 months) Research Assistant to Prof. Santanu Ghosh

Time Series Analysis

## ■ 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. These compliance requirements are particularly damaging for smaller, less productive exporters.

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

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

(under review)

We use industry level panel data to analyse the indirect link between product market structure (concentration) and workforce composition of firms (usage of contract workers) by explicitly measuring changes in market concentration using a newly constructed trade-adjusted concentration ratio.

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)

(under review)

We study the structure and dating of disaggregated Indian industrial cycles. Co-movement across industries points to some common drivers. Spectral causality from different policy parameters to these cycles point to the differences in impact by industry type which might be due to the structure of the economy.

[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

**☑** 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.

Socio-Economic Study | Social Geography | Urban Geography | Primary Survey | Urban Slums



### WORK IN PROGRESS

- > Multiple Sourcing of Imported Intermediate Inputs (with Kunal Dasgupta)
- > Central Bank Communication and Government Securities cycle (with Ashima Goyal)
- > Hindu Succession Act and Health Outcome: Second Generation Impact (with Jeeten Giri) (funded by Union College, NY)



### CONFERENCES AND WORKSHOPS

# 2019 61st Annual Conference on Labour Economics, Indian Society of Labour Economics, hosted by Punjabi University, Patiala, India

> Paper presentation : Globalization and Workforce Composition in Indian Formal Manufacturing : New evidence on product market competition channel

# 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: Hindu Succession Act and Health Outcome: Second Generation Impact

### 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

# 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)

# \* ACHIEVMENTS

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

- > Qualified for the position of Assistant Professor in Indian Universities.
- > As per University Grants Commission official report, only 6% of 0.6 million applicants qualified.

### 2016-18 M.Phil. Fellowship, Indira Gandhi Institute of Development Research, Mumbai, India

## </> Skills

Statistical Softwares Stata, R, GRETL, EViews, ArcGIS, QGIS. **Programming Languages** Python, Julia, ŁTFX, 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 Lifecyle.

Web Scraping Selenium, Scrapy, Splash.

Operating Systems Windows, Linux.

# 66 REFERENCES

### Dr. Kunal Dasgupta

Associate Professor of Economics @ kunal.dasgupta@iimb.ac.in

INDIAN INSTITUTE OF MANAGEMENT, BANGALORE +91 80 2699 3374

### Dr. K. V. Ramaswamy

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INDIRA GANDHI INSTITUTE OF DEVELOPMENT RESEARCH, MUMBAI ← 91 22 2841 6511

### Dr. Ashima Goyal

Professor of Economics

Indira Gandhi Institute of Development Research, Mumbai

Independent External Member, Monetary Policy Committee, Reserve Bank of India

ashima@igidr.ac.in

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Ex-Member, Economic Advisory Council to the Prime Minister of India

### Dr. Saibal Kar

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CENTRE FOR STUDIES IN SOCIAL SCIENCES, CALCUTTA +91 33 2462 7251

Research Fellow, IZA, BONN

Director (Hon.), EASTERN REGIONAL CENTRE, INDIAN COUNCIL OF SOCIAL SCIENCE RESEARCH