International Remittance Payments and the Global Economy

Bharati Basu with James T. Bang



International Remittance Payments and the Global Economy

Bharati Basu with James T. Bang



First published 2015 by Routledge 2 Park Square, Milton Park, Abingdon, Oxon OX14 4RN

and by Routledge 711 Third Avenue, New York, NY 10017

Routledge is an imprint of the Taylor & Francis Group, an informa business

© 2015 Bharati Basu and James T. Bang

The rights of Bharati Basu and James T. Bang to be identified as authors of this work has been asserted by him in accordance with the Copyright, Designs and Patents Act 1988.

All rights reserved. No part of this book may be reprinted or reproduced or utilized in any form or by any electronic, mechanical, or other means, now known or hereafter invented, including photocopying and recording, or in any information storage or retrieval system, without permission in writing from the publishers.

Trademark notice: Product or corporate names may be trademarks or registered trademarks, and are used only for identification and explanation without intent to infringe.

British Library Cataloguing in Publication Data

A catalogue record for this book is available from the British Library

Library of Congress Cataloging in Publication Data A catalog record for this book has been requested

ISBN: 978-0-415-58994-9 (hbk) ISBN: 978-1-315-78085-6 (ebk)

Typeset in Times New Roman by Wearset Ltd, Boldon, Tyne and Wear



International Remittance Payments and the Global Economy

International Remittance Payments are described mainly as money sent by immigrants to their families and friends in their home countries. These payments provide an important source of income that is mostly used to provide for a variety of basic needs of the non-migrating members of immigrant families and thus remittance payments can be considered as a tool to reduce the poverty level of the labor sending countries. However, remittances are also used for asset accumulation by some families and for some countries they constitute a good part of foreign funds coming into the country. In-spite of their increasing volume over the last few decades, a lot of things about remittances are not known and studies estimate that about half of these money transfers are not even recorded. Since these payments are shown to reduce poverty and help economic progress in the remittance receiving countries, a better knowledge about remittances would help the debates surrounding immigration, remittances and their relation to the global economy.

This book provides an overview of remittances in different parts of the world over the last thirty years. It looks at the labor sending and labor receiving countries separately. The text examines the trends, uses, motivations behind sending remittances, cost of sending them and how they are affected by the nature and the development level of different institutional factors.

The remittance flows are growing over time and they are used mostly for reducing the uncertainty of life in the less developed parts of the world. However, motivation for sending remittances could be improved and thus remittances could be more conducive to economic development if (1) the relation between the remittance decision and the migration decision is better understood and (2) the costs of international money transfers are reduced. More studies about those issues would benefit the international community. Efforts should be made in all fronts to encourage such international flow of funds not only to have a redistribution of income all over the world, but also to synchronize the efforts towards global economic development and a better integration of the world economy. This book is aimed at researchers, policy practitioners and post- graduates studying International Economics or International Economic Relations or Political Science or Economic Development.

Bharati Basu is a professor in the Department of Economics at Central Michigan University, USA.

James T. Bang is an assistant professor in the Department of Finance, Economics and Decision Science, St. Ambrose University, USA.

Routledge studies in the modern world economy

1 Interest Rates and Budget Deficits

A study of the advanced economies Kanhaya L. Gupta and Bakhtiar Moazzami

- 2 World Trade after the Uruguay Round Prospects and policy options for the twenty-first century Edited by Harald Sander and András Inotai
- 3 The Flow Analysis of Labour Markets Edited by Ronald Schettkat
- 4 Inflation and Unemployment
 Contributions to a new
 macroeconomic approach
 Edited by Alvaro Cencini and
 Mauro Baranzini
- 5 Macroeconomic Dimensions of Public Finance Essays in honour of Vito Tanzi Edited by Mario I. Blejer and Teresa M. Ter-Minassian
- 6 Fiscal Policy and Economic Reforms

Essays in honour of Vito Tanzi Edited by Mario I. Blejer and Teresa M. Ter-Minassian

- 7 Competition Policy in the Global Economy Modalities for co-operation Edited by Leonard Waverman, William S. Comanor and Akira Goto
- 8 Working in the Macro
 Economy
 A study of the US labor market
 Martin F. J. Prachowny
- 9 How Does Privatization Work? Edited by Anthony Bennett
- 10 The Economics and Politics of International Trade Freedom and trade: volume II Edited by Gary Cook
- 11 The Legal and Moral Aspects
 of International Trade
 Freedom and trade: volume III
 Edited by Asif Qureshi,
 Hillel Steiner and Geraint Parry
- 12 Capital Markets and
 Corporate Governance in
 Japan, Germany and the
 United States
 Organizational response to
 market inefficiencies
 Helmut M. Dietl

13 Competition and Trade Policies Coherence or conflict Edited by Einar Hope

14 Rice The primary commodity A. J. H. Latham

15 Trade, Theory and Econometrics Essays in honour of John S. Chipman Edited by James C. Moore, Raymond Riezman, James R. Melvin

16 Who Benefits from Privatisation? Edited by Moazzem Hossain and Justin Malbon

17 Towards a Fair Global Labour Market Avoiding the new slave trade Ozay Mehmet, Errol Mendes and Robert Sinding

- 18 Models of Futures Markets
 Edited by Barry Goss
- 19 Venture Capital Investment An agency analysis of UK practice Gavin C. Reid
- 20 Macroeconomic Forecasting A sociological appraisal Robert Evans
- 21 Multimedia and Regional
 Economic Restructuring
 Edited by HansJoachim Braczyk, Gerhard Fuchs
 and Hans-Georg Wolf

22 The New Industrial Geography Regions, regulation and institutions Edited by Trevor J. Barnes and Meric S. Gertler

- 23 The Employment Impact of Innovation
 Evidence and policy
 Edited by Marco Vivarelli and Mario Pianta
- 24 International Health Care
 Reform
 A legal, economic and political
 analysis
 Colleen Flood
- 25 Competition Policy Analysis Edited by Einar Hope
- 26 Culture and Enterprise

 The development, representation and morality of business

 Don Lavoie and

 Emily Chamlee-Wright
- 27 Global Financial Crises and Reforms
 Cases and caveats
 B.N. Ghosh
- 28 Geography of Production and Economic Integration Miroslav N. Jovanović
- 29 Technology, Trade and Growth in OECD Countries

 Does specialisation matter?

 Valentina Meliciani
- 30 Post-Industrial Labour Markets
 Profiles of North America and
 Scandinavia
 Edited by Thomas P. Boje and
 Bengt Furaker

- 31 Capital Flows without Crisis
 Reconciling capital mobility and
 economic stability
 Edited by Dipak Dasgupta,
 Marc Uzan and Dominic Wilson
- 32 International Trade and National Welfare Murray C Kemp
- 33 Global Trading Systems at Crossroads A post-Seattle perspective Dilip K. Das
- 34 The Economics and
 Management of Technological
 Diversification
 Edited by John Cantwell,
 Alfonso Gambardella and
 Ove Granstrand
- 35 Before and Beyond EMU
 Historical lessons and future
 prospects
 Edited by Patrick Crowley
- 36 Fiscal Decentralization Ehtisham Ahmad and Vito Tanzi
- 37 Regionalisation of Globalised Innovation

 Locations for advanced industrial development and disparities in participation

 Edited by Ulrich Hilpert
- 38 Gold and the Modern World Economy Edited by MoonJoong Tcha
- 39 Global Economic Institutions Willem Molle

- 40 Global Governance and Financial Crises Edited by Meghnad Desai and Yahia Said
- 41 Linking Local and Global
 Economies
 The ties that bind
 Edited by Carlo Pietrobelli and
 Arni Sverrisson
- 42 Tax Systems and Tax Reforms in Europe Edited by Luigi Bernardi and Paola Profeta
- 43 Trade Liberalization and APEC Edited by Jiro Okamoto
- 44 Fiscal Deficits in the Pacific Region Edited by Akira Kohsaka
- 45 Financial Globalization and the Emerging Market Economies Dilip K. Das
- 46 International Labor Mobility
 Unemployment and increasing
 returns to scale
 Bharati Basu
- 47 Good Governance in the Era of Global Neoliberalism
 Conflict and depolitization in Latin America, Eastern Europe, Asia and Africa
 Edited by Jolle Demmers,
 Alex E. Fernández Jilberto and Barbara Hogenboom
- 48 The International Trade System Alice Landau

49 International Perspectives on Temporary Work and Workers Edited by John Burgess and Julia Connell

50 Working Time and Workers'
Preferences in Industrialized
Countries
Finding the balance
Edited by Jon C. Messenger

51 Tax Systems and Tax Reforms in New EU Members Edited by Luigi Bernardi, Mark Chandler and Luca Gandullia

State
The impact of the IMF and the World Bank
Edited by Gustav Ranis,
James Vreeland and
Stephen Kosak

52 Globalization and the Nation

53 Macroeconomic Policies and Poverty Reduction Edited by Ashoka Mody and Catherine Pattillo

54 Regional Monetary Policy Carlos J. Rodríguez-Fuentez

55 Trade and Migration in the Modern World Carl Mosk

56 Globalisation and the Labour Market Trade, technology and less-

skilled workers in Europe and the United States

Edited by Robert Anderton,

Paul Brenton and John Whalley

57 Financial Crises
Socio-economic causes and institutional context
Brenda Spotton Visano

58 Globalization and Self
Determination
Is the nation-state under siege?
Edited by David R. Cameron,
Gustav Ranis and Annalisa Zinn

59 Developing Countries and the Doha Development Round of the WTO

Edited by Pitou van Dijck and Gerrit Faber

60 Immigrant Enterprise in Europe and the USA Prodromos Panayiotopoulos

61 Solving the Riddle of
Globalization and
Development
Edited by Manuel Agosin,
David Bloom, George Chapelier
and Jagdish Saigal

62 Foreign Direct Investment and the World Economy Ashoka Mody

63 The World Economy A global analysis Horst Siebert

64 Production Organizations in Japanese Economic Development Edited by Tetsuji Okazaki

65 The Economics of Language
International analyses
Edited by Barry R. Chiswick and
Paul W. Miller

66 Street Entrepreneurs People, place and politics in local and global perspective Edited by John Cross and Alfonso Morales

67 Global Challenges and Local Responses

The East Asian experience Edited by Jang-Sup Shin

68 Globalization and Regional Integration

The origins, development and impact of the single European aviation market *Alan Dobson*

69 Russia Moves into the Global Economy

Breaking out John M. Letiche

70 The European Economy in an American Mirror

Barry Eichengreen, Michael Landesmann and Dieter Stiefel

71 Working Time Around the World

Trends in working hours, laws, and policies in a global comparative perspective Jon C. Messenger, Sangheon Lee and Deidre McCann

72 International Water Treaties Negotiation and cooperation along transboundary rivers Shlomi Dinar

73 Economic Integration in the Americas

Edited by Joseph A. McKinney and H. Stephen Gardner

74 Expanding Frontiers of Global Trade Rules

The political economy dynamics of the international trading system

Nitya Nanda

75 The Macroeconomics of Global Imbalances

European and Asian perspectives Edited by Marc Uzan

76 China and Asia

Economic and financial interactions

Edited by Yin-Wong Cheung and Kar-Yiu Wong

77 Regional Inequality in China Trends, explanations and policy responses

Edited by Shenggen Fan, Ravi Kanbur and Xiaobo Zhang

78 Governing Rapid Growth in China

Equity and institutions

Edited by Ravi Kanbur and

Xiaobo Zhang

79 The Indonesian Labour Market Shafiq Dhanani, Iyanatul Islam and Anis Chowdhury

80 Cost-Benefit Analysis in Multi-level Government in Europe and the USA

The case of EU cohesion policy and of US federal investment policies Alessandro Ferrara

81 The Economic Geography of Air Transportation

Space, time, and the freedom of the sky

John Bowen

- 82 Cartelization, Antitrust and Globalization in the US and Europe Mark LeClair
- 83 The Political Economy of Integration Jeffrey Cason
- 84 Critical Issues in Air Transport Economics and Business Rosario Macario and Eddy Van de Voorde
- 85 Financial Liberalisation and Economic Performance Luiz Fernando de Paula
- 86 A General Theory of Institutional Change Shiping Tang
- 87 The Dynamics of Asian
 Financial Integration
 Edited by Michael Devereux,
 Philip Lane, Park Cyn-young
 and Wei Shang-jin
- 88 Innovative Fiscal Policy and Economic Development in Transition Economies

 Aleksandr Gevorkyan
- 89 Foreign Direct Investments in Asia Edited by Chalongphob Sussangkarn, Yung Chul Park and Sung Jin Kang
- 90 Time Zones, Communications Networks, and International Trade Toru Kikuchi

- 91 Miraculous Growth and Stagnation in Post-War Japan Edited by Koichi Hamada, Keijiro Otsuka, Gustav Ranis, and Ken Togo
- 92 Multilateralism and
 Regionalism in Global
 Economic Governance
 Trade, investment and finance
 Edited by Junji Nakagawa
- 93 Economic Growth and Income Inequality in China, India and Singapore

 Trends and policy implications Pundarik Mukhopadhaya,
 G. Shantakumar and Bhanoji Rao
- 94 Foreign Direct Investment in China
 Spillover effects on domestic enterprises
 Deng Ziliang
- 95 Enterprise Forms and Economic Efficiency
 Capitalist, cooperative and government firms
 Kazuhiko Mikami
- 96 Diversity and Transformations of Asian Capitalism Edited by Boyer, Uemura and Isogai
- 97 Knowledge Transfer in the Automobile Industry Global–local production networks Dessy Irawati
- 98 Exchange Rates and Foreign
 Direct Investment in Emerging
 Asia
 Selected issues and policy options
 Ramkishen S. Rajan

- 99 Singapore, the Energy
 Economy
 From the first refinery to the end
 of cheap oil, 1960–2010
 Ng Weng Hoong
- 100 China-India Economics
 Challenges, competition & collaboration
 Amitendu Palit
- 101 Case Studies on Chinese Enterprises Edited by Donglin Xia
- 102 Argentina's Economic Growth and Recovery Michael Cohen
- 103 The Korean Labour Market
 After the 1997 Economic
 Crisis
 Edited by Joonmo Cho,
 Richard B. Freeman,
 Jaeho Keum and Sunwoong Kim
- 104 China and India

 The quest for energy resources in the 21st century

 Zhao Hong
- 105 Beyond the Global Crisis
 Structural adjustments and regional integration in Europe and Latin America
 Edited by Lionello Punzo,
 Carmen Aparecida Feio and
 Martin Putchet Anyui
- 106 The Global Economic Crisis in Latin America
 Impacts and responses
 Edited by Michael Cohen

- 107 The Processes and Practices of Fair Trade
 Trust, ethics and governance
 Edited by Brigitte Granville and
 Janet Dine
- 108 Regional Development through Ecological Business Unique cases in Japanese rural regions Makoto Hirano
- 109 Aging and Economic Growth Potentials in the Pacific Region Edited by Akira Kohsaka
- 110 Crises of Global Economies and the Future of Capitalism Reviving Marxian crisis theory Edited by Kiichiro Yagi, Nobuharu Yokokawa, Shinjiro Hagiwara and Gary A. Dymski
- 111 The Financial History of the Bank for International Settlements Kazuhiko Yago
- 112 Freight Transport and the Modern Economy Michel Savy and June Burnham
- 113 Thoughts on Economic Development in China Edited by Ma Ying and Hans-Michael Trautwein
- 114 China's Ethnic Minorities
 Social and economic indicators
 Rongxing Guo
- 115 Globalization, Outsourcing and Labour Development in ASEAN Shandre Thangavelu and Aekapol Chongvilaivan

116 The Role of Informal Economies in the Post-Soviet World

The end of transition? Colin C. Williams, John Round and Peter Rodgers

117 Demystifying the Chinese Miracle

The rise and future of relational capitalism Yongqin Wang

118 Globalism and Regional Economy

Edited by Susumu Egashira

119 Russia's Changing Economic and Political Regimes

The Putin years and afterwards
Andrey Makarychev and
André Mommen

120 Innovation and Regional Development in China

Edited by Ingo Liefner and Yehua Dennis Wei

121 International Trade Negotiations and Domestic Politics

The intermestic politics of trade liberalization Edited by Oluf Langhelle

122 Emerging Knowledge Economies in Asia

Current trends in ASEAN 5 Edited by Dessy Irawati and Roel Rutten

123 The Internationalization of the Renminbi

International Monetary Institute, Renmin University of China

124 Financial Globalization and Regionalism in East Asia Edited by Takuji Kinkyo,

Yoichi Matsubayashi and Shigeyuki Hamori

125 Successful Business Dealings and Management with China Oil, Gas and Chemical Giants Eurlng. Henry K. H. Wang

126 State Building and Development

Edited by Keijiro Otsuka and Takashi Shiraishi

127 International Economic Development

Leading issues and challenges Edited by Fu Lai Tony Yu, Wai Kee Yuen and Diana S. Kwan

128 Innovation, Globalization and Firm Dynamics

Lessons for enterprise policy Edited by Anna Ferragina, Erol Taymoz and Kamil Yilmaz

129 International Remittance Payments and the Global Economy

Bharati Basu with James T. Bang

Figures

1.1	Share of world immigration stock by regions, 1980–2010	4
1.2	World remittance inflows	5
1.3	Remittance inflows in different regions	5
1.4	Top 10 net emigrants countries	15
1.5	Top 10 net emigrants as a % of population countries	16
1.6	Top 10 net remittances receiving countries	17
1.7	Top 10 per capita remittances receiving countries	18
1.8	Top 10 remittances as a % of GDP countries	19
2.1	Remittances in a one good two factor model	22
2.2	Remittances in a two good two factor model	23
2.3	Remittances in an interconnected market with non-traded goods	25
2.4	Remittances in a model with exogenous distortion	31
2.5	Remittances in a model with endogenous distortion	40
3.1	Emigrants by source, 1960–2000	46
3.2	Immigrants by destination, 1960–2000	47
3.3	Remittance inflows, 1980	47
3.4	Remittance inflows, 2009	48
3.5	Trends in remittances to developing countries, by region,	
	1980–2010	48
3.6	Trends in per capita remittances to developing countries, by	
	region, 1980–2010	49
3.7	Trends in remittances as a percentage of GDP to developing	
	countries, by region, 1980–2010	49
3.8	Comparison of the trends in FDI and remittance flow to the	
	developing regions	52
3.9	Trends in remittances to the top receiving countries in the	
	East Asia and the Pacific region, 1980–2010	53
3.10	Trends in remittances to the top receiving countries in the	
	South Asia region, 1980–2010	59
3.11	Trends in remittances to the top receiving countries in Latin	
	America and the Caribbean, 1980–2010	64
3.12	Trends in remittances to the top receiving countries in the	
	Middle East and North Africa, 1980-2010	73

		Figures	XV
4.1	Immigrant stock in four advanced regions of the world, 1980–2009		83
4.2	Immigrant stock as % of population in four regions, 1980–2009		84
4.3	Trend of immigrants as % of population for four regions, 1980–2009		84
4.4	Remittance outflow from four advanced regions as % of tota remittance outflow from the developed countries	I	85
4.5	Remittance inflow in four advanced regions as % of total remittance inflow into the developed countries		86
4.6	Remittance outflow as percentage of GDP in four advanced regions of the world		87
4.7	Remittance inflow as percentage of GDP in four advanced		
4.8	regions of the world Trends of outflow as percentage of GDP for four regions,		87
4.9	1980–2009 Trend of inflow as percentage of GDP for four regions,		88
	1980–2009		89
4.10 4.11	Histogram of net outflow Trends of outflow and net outflow for four regions, 1980–2009		90
4.12	Trends of outflow per immigrant for four regions, 1980–200	9	91
4.13	Share of remittance outflow in FDI outflow		91
4.14	Trends of outflow as percentage of FDI outflow for four regions, 1980–2009		92
4.15	Remittance inflow as a share of FDI inflow		92
4.16	Trend of FDI outflow and remittance outflow for four region	is	93

Tables

1.1	Immigration stock by regions	2
1.2	Migrant workers' remittances from the Middle East to the	
	major Asian labor exporting countries	7
1.3	Saving/investment out of remittance income	8
1.4	Net immigrants in East European countries	9
1.5	Net remittance inflow in East European countries	10
1.6	Remittance inflow as percentage of GDP in East European	
	countries	11
1.7	Immigrants from Mexico and Latin America region to the US	13
2.1	Nature of specialization in production for different trade	
	equilibria between zones	33
3.1	Remittances and FDI inflows by region, selected years	50
3.2	Remittances to East Asia, 1980–2010	54
3.3	Remittances by source to China, 2010	55
3.4	Remittances to Southeast Asia, 1980-2010	55
3.5	Sources of remittances to the Philippines, Indonesia and	
	Vietnam, 2010	57
3.6	Per capita remittances to South Asian countries, 1980-2010	60
3.7	Remittances' share of GDP to South Asian countries,	
	1980–2010	61
3.8	Remittances to South Asia, by source, 2010	62
3.9	Remittances to Latin America and the Caribbean, 1980-2010	66-67
3.10	Per capita remittances to Latin America and the Caribbean,	
	1980–2009	68
3.11	Remittances' share of GDP to Latin American countries,	
	1980–2009	69
3.12	Remittances to Latin America by source, 2010	72
4.1	The remittance data of North America, 1980–2009	94
4.2	Households that received monetary transfers from relatives	
	and friends outside the US in the previous twelve months by	
	nativity of household	96
4.3	Remittance data of the Oceania region, 1980-2009	97
4.4	Remittance data of the Asia region, 1980–2009	100

		Tables	xvii
1.5	Remittance data of European countries, 1980–2009		103
1A.1	Detailed data for countries in Oceania		106
1A.2	Detailed data for countries in Asia		107
1A.3	Detailed data for countries in Europe		108
5.1	A summary table from Docquier and Rapoport		115
5.2	Summary of hypothesis		123
5.3	Summary statistics		126
5.4	Matrix of correlation coefficients		128
5.5	Reported reasons for remitting	~	129
5.6	Estimation result for fraction of earnings remitted	130	-131
5.7	Multinomial logit	134	-135
5.8	Modified summary table from Docquier and Rapoport		139
5A.1	Comparison of results for EMIF sample		140
5.1	Migration and remittance frequencies by country of origin		149
5.2	Summary statistics		151
5.3	Matrix of correlation coefficients		153
5.4	Selection equation for migration with and without remitting		155
5.5	Earnings regressions		157
5.6	Remittances regressions		158
5.7	Final migration regression		159
7.1	Cost to send \$250 by Western Union to some of the Latin		
	American countries		170
7.2	Transfer cost of different amount of remittances		170
7.3	A comparison of costs of sending \$200 from the US		175
7.4	Cost regression estimates		177
7.5	Remittance regression results		179
7.6	Estimates of remittance cost elasticity and informal		
	remittances by income group, 2003		181
3.1	Correlation matrix for institutional and cultural variables		192
3.2	Fixed effect panel regression results for all countries		-195
3.3	Fixed effect panel regression results for non-emerging LDCs		-199
3.4	Fixed effect panel regression results for emerging economies		-201
3.5	Fixed effect panel regression results for advanced economies	202	-203

Foreword

Remittances represent the largest flows of the smallest amounts crossing borders and their role in enhancing finances and lives of those living in developing countries is undeniable. However, these remittance flows are not only relevant to the developing countries as one-third of the total volume ends up in developed countries. The scholarship in this field is heavily skewed towards studies on developing countries. This book does a fair job in bridging the two ends of the remittance flows while offering an analysis of the last three decades.

Remittances are the crucial link between migration and development and the total volume of remittances have reached beyond \$500 billion around the world and are estimated to reach \$770 billion within the next three years. About three-quarters of these flows are towards developing countries and they represent a strong competition to foreign direct investment and other financial flows. Hence directly or indirectly, remittances contribute to the development around the world. Besides, social remittances play a substantial role in spreading ideas, opinions and changing attitudes and cultures of consumption.

In some small economies, remittances represent about half of the GDP (e.g., Tajikistan), while the total volume in countries like India is much larger than the FDI receipts. Following India (\$71 billion), China (\$60 billion), the Philippines (\$26 billion), Mexico (\$22 billion), Nigeria (\$21 billion) and Egypt (\$20 billion) are the top recipients. In 2012, we have shown that remittances were resilient to the financial crisis in most parts of the world and argued that reducing the transaction costs would simply help and facilitate development in many developing countries. The high cost of sending money is still an obstacle and encouraging the use of informal channels. However, the overall political will is not there yet. Commercial concerns along with security issues such as money laundering and financing terrorism constitute a barrier for lowering the costs. The financial and human cost of international migration is not helping either. The authors clearly show here that cost of sending remittances simply encourages informal channels. These flows are estimated to be, accordingly, between 25 and 40% of the total flows to low income countries.

Therefore, understanding remittance patterns and behavior in relation to human mobility is ever more important. Basu and Bang present a much-needed effort to link migration history to remittance flows and remittance sending