



## Infrastructure and Urban Development in the Developing World

22-23 August 2023, Tokyo, Japan

Day 1, 22 August 2023				
8:00	–	8:20	am	Registration
<b>Opening Ceremony</b> Moderator: Yi Jiang, Asian Development Bank				
8:20	–	8:25	am	Opening Remarks 1 Yasuyuki Sawada, University of Tokyo
8:25	–	8:30	am	Opening Remarks 2 Rana Hasan, Asian Development Bank
<b>Keynote Speech 1</b> Moderator: Yasuyuki Sawada, University of Tokyo				
8:30	–	9:30	am	<b>The Spatial Effects of Public Transportation in Low-income Cities</b> Speaker: Melanie Morten, Stanford University
<b>Session 1: Public Transport and Cities</b> Chair: Rana Hasan, Asian Development Bank				
9:30	–	10:15	AM	<b>Faster, Taller, Better: Transit Improvements and Land Use Policies</b> Presenter: Liming Chen, Asian Development Bank and Andrii Parkhomenko, University of Southern California Discussant: Lucas Conwell, University College London
10:15	–	10:30	AM	Tea Break
10:30	–	11:15	AM	<b>Subways or Minibuses? Privatized Provision of Public Transit</b> Presenter: Lucas Conwell, University College London Discussant: Yizhen Gu, Peking University HSBC Business School
11:15	–	12:00	PM	<b>Fare Structure and the Demand for Public Transit</b> Presenters: Yizhen Gu, Peking University HSBC Business School and Ben Zou, Purdue University Discussant: Liming Chen, Asian Development Bank
12:00	–	1:00	PM	Lunch Break
<b>Keynote Speech 2</b> Moderator: Rana Hasan, Asian Development Bank				
1:00	–	2:00	PM	<b>The Future of Cities under Diminishing Spatial Frictions and Decreasing Population</b> Speaker: Tomoya Mori, Kyoto University

				<b>Session 2: Applications of Quantitative Spatial Models</b> Chair: Yasuyuki Sawada, University of Tokyo
2:00	–	2:45	PM	<b>How Useful are Quantitative Urban Models for Cities in Developing Countries? Evidence from Dhaka</b> Presenter: Kohei Takeda, National University of Singapore Discussant: Nick Tsivanidis, University of California at Berkeley
2:45	–	3:30	PM	<b>Spatial Spillovers from High-Rise Developments: Evidence from the Mumbai Mills Redevelopment</b> Presenter: Nick Tsivanidis, University of California at Berkeley Discussant: Atsushi Yamagishi, Princeton University
3:30	–	3:45	PM	<i>Tea Break</i>
3:45	–	4:30	PM	<b>The Dynamics of Urban Spatial Structure: Lessons from Hiroshima</b> Presenter: Atsushi Yamagishi, Princeton University Discussant: Yuhei Miyauchi, Boston University
4:30	–	5:15	PM	<b>The Economics of Spatial Mobility: Theory and Evidence Using Smartphone Data</b> Presenter: Yuhei Miyauchi, Boston University Discussant: Kohei Takeda, National University of Singapore
5:15	–	5:20	PM	<b>Day 1 Wrap-up</b>
6:00	–	8:00	PM	<b>Dinner hosted by Yasuyuki Sawada</b>

## Day 2, 23 August 2023

### Keynote Speech 3

Moderator: Tetsushi Sonobe, Asian Development Bank Institute

8:30 – 9:30 AM **The Fast, the Slow, and the Congested: Urban Transportation in Rich and Poor Countries**

Speaker: Gilles Duranton, University of Pennsylvania

### Session 3: Infrastructure, Creative Data and Development

Chair: Tetsushi Sonobe, Asian Development Bank Institute

9:30 – 10:15 AM **Satellite-Based Vehicle Flow Data to Assess Local Economic Activities**

Presenter: Kentaro Nakajima, Hitotsubashi University

Discussant: Soyoung Kim, University of Tokyo

10:15 – 10:45 AM Group photo and tea break

10:45 – 11:30 AM **Infrastructure, Schooling, and Structural Transformation: Evidence from Satellite, Administrative, and Multi-Generation Household Data in a Developing Country**

Presenter: Soyoung Kim, University of Tokyo

Discussant: Simon Fuchs, Federal Reserve Bank of Atlanta

11:30 – 12:15 AM **Multimodal Transport Networks**

Presenter: Simon Fuchs, Federal Reserve Bank of Atlanta

Discussant: Kentaro Nakajima, Hitotsubashi University

12:15 – 1:30 PM Lunch Break

### Session 4: Urban Interactions and Sustainability

Chair: Yi Jiang, Asian Development Bank

1:30 – 2:15 PM **Effects of Levee Systems and Optimal Policy Targeting**

Presenter: Hiroaki Shirai, University of Tokyo

Discussant: Allan Hsiao, Princeton University

2:15 – 3:00 PM **Sea Level Rise and Urban Adaptation in Jakarta**

Presenter: Allan Hsiao, Princeton University

Discussant: Mariko Nakagawa, Hitotsubashi University

3:00 – 3:30 PM *Tea Break*

3:30 – 4:15 PM **Heat as a Measure of Living Standards: An Application to the Urban Squatter Agglomeration in Japan**

Presenter: Mariko Nakagawa, Hitotsubashi University

Discussant: Manabu Nose, International Monetary Fund

4:15 – 5:00 PM **From Battlefield to Marketplace: Connectivity, Industrialization, and Spatial Convergence in the Greater Mekong Sub-Region**

Presenter: Manabu Nose, International Monetary Fund

Discussant: Hiroaki Shirai, University of Tokyo

5:00 – 5:10 PM **Closing Remarks**

Tetsushi Sonobe, Asian Development Bank Institute

## Short Bios



**Liming Chen** is an Urban Economist in the ADB's Water and Urban Development Sector Office. His research interests include urban economics, transport infrastructure, and trade. His research has been published in World Bank Economic Review and Structural Change and Economic Dynamics. He obtained his Ph.D. in Economics from the University of California, Santa Barbara.



**Lucas Conwell** is a development and spatial economist whose research focuses on informal urban institutions in developing countries as well as the government role in infrastructure provision more generally. In ongoing work, he studies the minibus systems which provide most urban transport in African cities and asks whether optimizing these systems could serve as an alternative to expensive public transport infrastructure. In other joint work, he studies whether car- or transit-oriented infrastructure best expands commuting access to large city centers, taking into account associated pollution and health effects. He has also written on worker retraining in Germany in response to trade shocks and worked with Germany's GIZ on transport projects in Namibia. Lucas received his Ph.D. in Economics from Yale University and will join University College London as a Lecturer in Economics in Fall 2023.



**Gilles Duranton** is professor of real estate and holds the Dean's Chair in Real Estate. He joined Wharton in 2012 after holding academic positions at the University of Toronto and the London School of Economics. A graduate from HEC Paris and Sorbonne University, he obtained his PhD in economics from the London School of Economics and the Ecole des Hautes Etudes en Sciences Sociales in Paris.

His current work focuses on land use and urban growth in emerging cities, the measurement of urban transportation and congestion, land development, and the geography of innovation and technology. He is also interested in the evaluation of the effects of infrastructure and place-based policies. He serves as a co-editor for the Journal of Urban Economics and sits on the editorial board of several other academic journals. He is a fellow of the National Bureau of Economic Research and of the Center for Economic Policy Research. He regularly works as a consultant on regional and urban policy for national governments and international organizations. He was also the 2011 president of the North American Regional Science Association and the 2016–2017 president of the Urban Economics Association. He is currently the chair of the Wharton Real Estate Department.



**Simon Fuchs** is a research economist and assistant adviser on the macroeconomics and monetary policy team in the research department at the Federal Reserve Bank of Atlanta. In his research, he focuses on the macroeconomic effects of the spatial distribution of economic activity, with a particular focus on the interplay between local labor markets and trade. Prior to joining the Bank in 2019, he did postdoctoral work at the Autonomous University in Barcelona. He received his doctoral and master's degrees from Toulouse School of Economics and a bachelor of arts degree in politics and economics from the University of York.



**Yizhen Gu** is Associate Professor of Economics in the Peking University HSBC Business School. His research interests include urban economics, transportation, and applied microeconomics. He received his Ph.D. in city and regional planning from the University of California, Berkeley in 2015.



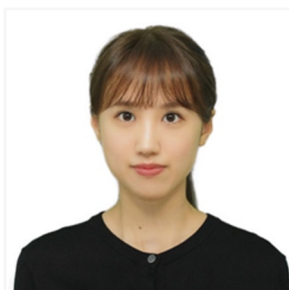
**Rana Hasan** is Regional Lead Economist for South Asia in Asian Development Bank's Economic Research and Development Impact Department. His research areas and interests include industrial development, labor economics, urban economics, and poverty and inequality. He has previously served as a director in ADB's research department and as Fellow at the East-West Center (USA). Rana has published in various journals including the Journal of Comparative Economics, Journal of Development Economics, Review of Economics and Statistics, and World Development. He has co-edited two volumes on trade and labor related issues. He holds a Ph.D. in Economics from the University of Maryland and a Masters' degree in Economics from the Delhi School of Economics, University of Delhi.



**Allan Hsiao** is an assistant professor of economics and public affairs at Princeton University. His work focuses on questions in environmental and development economics using tools from empirical industrial organization.



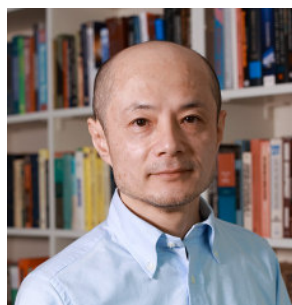
**Yi Jiang** is Principal Economist at the Economic Research and Development Impact Department of the Asian Development Bank. His research interests lie in the fields of urban and transport economics, environmental economics and public finance. He also worked in the East Asia Department of ADB for over four years on lending and policy advisory projects from 2011 to 2015. Yi holds a Ph.D. degree in economics from the University of Maryland, College Park, a Master's degree in statistics from the University of Missouri-Columbia, and a Bachelor's degree in finance and economics from Zhejiang University, China.



**Soyoung Kim** is a PhD candidate in Public Policy at the University of Tokyo. Her research interest includes development economics, causal inference, spatial analysis. She has worked as an international consultant at the Asian Development Bank and research associate at the Asian Development Bank Institute. Soyoung holds a Master's degree in Economics from the University of Tokyo and a Bachelor's degree in Economics from Waseda University, Tokyo, Japan.



**Yuhei Miyauchi** is an assistant professor at the Department of Economics at Boston University. His primary research theme is to understand how production and demand linkages shape socio-economic activity within cities and across regions and countries. He tackles these questions using a combination of theory and new sources of granular data, such as cell phone, smartphone transaction data and firm-level transaction data. Prior to joining Boston University, he obtained his Ph.D in Economics from MIT in 2018, and was a post-doc at Asia-Pacific Research Center at Stanford University until 2019.



**Tomoya Mori** is a professor at the Institute of Economic Research, Kyoto University and a faculty fellow at the Research Institute of Economy, Trade and Industry (RIETI). He also is serving concurrently as a visiting professor at the Center for Spatial Information Service, University of Tokyo. He has worked at Kyoto University since 1996, starting as an associate professor. He earned his Ph.D. in Regional Science from the University of Pennsylvania in 1996. His research specialization is in spatial economics and urban and regional economics. He has published numerous papers in academic journals, including Review of Economics and Statistics, European Economic Review, and Journal of Urban Economics, and has refereed for many publications. He is a member of the Urban Economics Association, Applied Regional Science Conference, Japanese Economic Association, and Regional Science Association International.

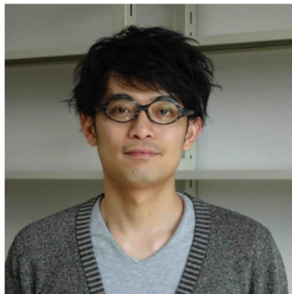




**Melanie Morten** is Associate Professor of Economics and Senior Fellow at the Stanford Institute for Economic Policy Research. She is a development economist interested in how households respond to risk in developing countries, including using short term and temporary migration. She received her PhD from Yale in May 2013 and was a post-doctoral fellow at the Minneapolis Federal Reserve.



**Mariko Nakagawa** is an Assistant Professor at the Institute of Economic Research at Hitotsubashi University. Her research interests include urban and spatial economics and cultural economics, with an emphasis on minorities. Her recent work, in collaboration with an environmental geoscientist, studies the spatial patterns and welfare levels of urban squatters in Japan. She received her Ph.D. in Economics from The University of Tokyo.



**Kentaro Nakajima** is an Associate Professor at the Institute of Innovation Research, Hitotsubashi University. His research expertise covers spatial economics. He earned his Ph.D. in Economics from the University of Tokyo in 2008. Prior to his current position, he was formerly an Associate Professor, Endowed Chair in Regional Economy and Banking (The 77 Bank), Graduate School of Economics, Tohoku University (2008-2010), an Associate Professor at the Institute of Economic Research, Hitotsubashi University (2010-2011), and an Associate Professor, Graduate School of Economics, Tohoku University (2011-2017).



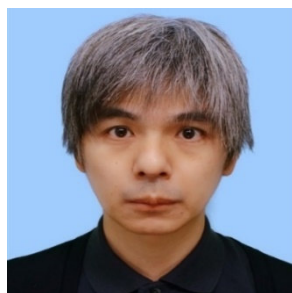
**Manabu Nose** is an economist at the International Monetary Fund's Fiscal Affairs Department. He is also a guest researcher at the University of Tokyo's Center for Research and Education in Program Evaluation (CREPE). Prior to the current position, he was a project associate professor at the University of Tokyo's Graduate School of Public Policy. His research currently focuses on development and fiscal policies related to digitalization, tax compliance, and infrastructure. His research also spans industrial policies in developing countries and the impact evaluation of aid programs. He received his Ph.D. in Economics from Brown University.



**Andrii Parkhomenko** is an Assistant Professor at the University of Southern California, Marshall School of Business. His research interests include spatial economics, urban economics, macroeconomics, and housing. In his recent work, he explored the implications of telecommuting for the spatial distribution of economic activity, the effect of land use regulations on local and aggregate economic performance, the effects of transportation improvements on the urban form, the relationship between housing prices and job polarization within local labor markets, etc. Andrii grew up in Kyiv, Ukraine. He graduated with a BA in Economics from Kyiv National Economics University and obtained a PhD in Economics from Universitat Autònoma de Barcelona.



**Yasuyuki Sawada** is Professor at Faculty of Economics, University of Tokyo. From March 2017 until August 2021, he was Chief Economist of Asian Development Bank (ADB) and Director General of its Economic Research and Regional Cooperation Department (ERCD). His key research areas are development economics, empirical microeconomics, economics of disasters, field surveys and experiments, and Asian economies. He has worked with research and policy organizations, among them JICA, RIETI, ERIA, IDE-JETRO, Pakistan Institute of Development Economics (PIDE), Bangladesh Institute of Development Studies (BIDS), International Rice Research Institute (IRRI), International Water Management Institute (IWMI), BRAC Bangladesh, and World Bank. He obtained Ph.D. in Economics from Stanford University.



**Hiroaki Shirai** is a Project Researcher at the Graduate School of Economics and the Center for Real Estate Innovation (CREI) at the University of Tokyo. He is also a Deputy Director in the River Planning Section at the Ministry of Land, Infrastructure, Transport, and Tourism (MLIT). His research interests include Infrastructure, Climate Change, and Disaster Risk Management. He received an M.S. in Civil and Environmental Engineering from Kobe University in 2008 and a Ph.D. in Economics from the University of Wisconsin-Madison in 2022.





**Tetsushi Sonobe** is the Dean and CEO of the Asian Development Bank Institute (ADBI), the Tokyo-based think tank of the Asian Development Bank that promotes the realization of a prosperous, inclusive, resilient, and sustainable Asia and the Pacific through policy research and capacity building.

Born in 1960 in Tokyo, Dean Sonobe obtained his PhD in economics from Yale University and BA in economics from the University of Tokyo. His research interests are centered on the empirics of economic development, particularly the roles of industrial clusters, human capital, social capital, management practices, and market competition in industrial development in developing Asia and other regions.

Before joining ADBI in April 2020, Dean Sonobe served for six years as a vice president of the National Graduate Institute for Policy Studies (GRIPS) in Tokyo and taught economics for thirty years at Tokyo Metropolitan University and GRIPS. Dean Sonobe is a recipient of the Nikkei Book Publication Prize and the Masayoshi Ohira Memorial Prize, and a founding board member of the Japanese Association for Development Economics.



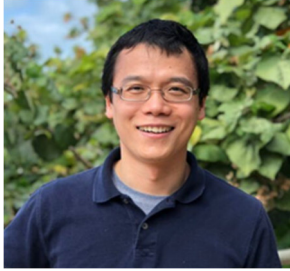
**Kohei Takeda** is a postdoctoral fellow with Presidential Fellowship at Economics Department of the National University of Singapore (NUS). Before joining NUS, he received BA and MA in Economics from Kyoto University and PhD in Economics from London School of Economics. His research interests include international trade, new economic geography, urban economics, and economics of agglomeration.



**Nick Tsivanidis** is Assistant Professor in the Haas School of Business at the University of California at Berkeley, and Co-Director of the Cities Research Programme at the International Growth Centre.



**Atsushi Yamagishi** is a PhD Candidate at the Department of Economics, Princeton University. Prior to coming to Princeton, he received his M.A. in Economics from the University of Tokyo in 2018 and his B.A. in Economics from the University of Tokyo in 2016.



**Ben Zou** is an empirical economist with research interests in labor economics, urban economics, and economic development. He is an assistant professor of Economics at Purdue University. Before joining Purdue, he was an assistant professor of Economics at Michigan State University.