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Bringing together leaders in development, government and business to examine key themes that will shape policy and research.
Dear GEM Participant,

We are pleased to welcome you to the 8th annual Global Empowerment Meeting, GEM16. Every year the GEM community gathers to exchange new ideas on how to bring sustainable prosperity to developing countries. We are always thrilled by the creative partnerships that result from this gathering and thank you for your active participation—it is your contributions that make GEM such a fruitful event.

GEM16 will explore cutting-edge ideas from many disciplines to inspire us to action. We will begin with a thought provoking conversation between world renowned computer scientist Leslie Valiant and human evolutionary biology expert Joseph Henrich on the secrets behind the way we learn. Harvard Professor Sendhil Mullainathan will show us how we can transform policy-making by leveraging the power of algorithms.

On Thursday, we turn to growth—we will hear from policy makers and practitioners, from a wide variety of geographies, to better understand the potential and the challenges in pursuing diversification while driving inclusive growth. We will discuss the role of migration in the process of knowledge diffusion and the costs and benefits of tighter controls on the international mobility of people.

We follow the morning sessions with a unique conversation between internationally renowned economists Dani Rodrik and Tyler Cowen, who will discuss the reasons behind recent failings in the economic profession and posit a more responsible, effective and theoretically grounded way to move forward.

In the afternoon we will explore the way in which dynamic cities are able to deliver on their promise of economic prosperity while overcoming the challenges of modern urban life. Finally, we will conclude with what promises to be a stimulating session on how the recent changes in the way we collect and analyze data radically transform business, policy design and our society in general.

We look forward to provocative questions, lively debate and forming new relationships. Thank you for your participation and your commitment to revolutionizing the development community.

Sincerely,

Ricardo Hausmann
Director

Marcela Escobari
Executive Director
The Center for International Development at Harvard University (CID) would like to acknowledge that GEM16 is possible in collaboration with The MasterCard Foundation.

The MasterCard Foundation works with visionary organizations to provide greater access to education, skills training and financial services for people living in poverty, primarily in Africa. As one of the largest, independent foundations, its work is guided by its mission to advance learning and promote financial inclusion in order to alleviate poverty. CID is proud to be an intellectual collaborator of the Foundation in its pursuit to create a more equitable and prosperous world.
About CID

The Center for International Development (CID) at Harvard University is a university-wide center that works to advance the understanding of development challenges and offer viable solutions to global poverty.

CID is Harvard’s leading research hub focusing on resolving the dilemmas of public policy associated with generating stable, shared, and sustainable prosperity in developing countries. Our ongoing mission is to apply knowledge to and revolutionize the world of development practice. Our main programs seek to:

• Change the way in which growth strategies are conceived, designed, and implemented
• Reinvent development policy to enable countries to move to more productive activities
• Build the capability of public organizations to execute & implement
• Improve service delivery in education, health, and other social services

CID leadership recognizes that solutions to global challenges are possible, but will require breakthroughs in approaches at the cutting edge of the hard sciences, the social sciences, ethics, and politics. The Center for International Development seeks to bridge the gaps between disciplines to address the world’s most intractable problems. By convening Harvard’s leading experts and colleagues throughout the world, CID seeks to locate remedies for entrenched global poverty and identify the policies and actions to implement these remedies.

CID is composed of the following research programs:

• Building State Capability, Faculty Leads: Lant Pritchett, Matt Andrews & Michael Woolcock
• Evidence for Policy Design (EPoD), Faculty Leads: Rohini Pande, Asim Khwaja & Rema Hanna
• The Growth Lab, Faculty Lead: Ricardo Hausmann, Dani Rodrik & Lant Pritchett

As Harvard’s primary center for research on international development, CID draws upon faculty, staff, and researchers from the Kennedy School of Government, the Faculty of Arts and Sciences, the School of Public Health, the Medical School, the Graduate School of Design, the Law School, and the Business School. Housed at the Harvard Kennedy School, CID is positioned to engage directly with governments and policy makers to affect good policy decisions and increase prosperity in all regions of the globe.

www.cid.harvard.edu
The Atlas Online

What is The Atlas online?
The Atlas online is a powerful online tool, associated with The Atlas of Economic Complexity: Mapping Paths to Prosperity that can generate millions of visualizations – on demand - of world trade markets. It enables policy makers, entrepreneurs, academics, students and the general public to map the path of diversification and prosperity for 128 countries.

Why is The Atlas online important?
This interactive tool makes our analysis and its underlying data accessible to anyone with access to the Internet. The tool allows users to explore growth opportunities by country and industry, with the potential to provide input into economic policy and private investment decisions. The analysis may also be used by development banks when planning their strategic investments; entrepreneurs developing a market plan; investment promotion agencies pitching to potential investors; as well as guide other choices we have yet to imagine.

The Atlas’ visualizations show existing export dynamics around the world and the potential new industries available to each country using the Product Space Methodology.

The Atlas online:
• allows users to examine trends in world markets and specific products
• allows organizations to understand competitors in specific markets
• can create over 20 million visualizations to show existing export dynamics among countries and the potential new industries available
• displays ECI (Economic Complexity Index) that ranks how diversified and complex a country’s export basket is.
• provides country profiles
• has been featured in the New York Times, Wall Street Journal, The Economist and other popular media.

CID has also created subnational Atlas websites in Mexico (www.complejidad.datos.gob.mx) and Colombia (www.datlascolombia.com) which map trade flows, employment patterns and wages for each municipality, metropolitan area and state.

For more information about The Atlas online, or about becoming a Founding Member of The Atlas online, please contact Marcela_Escobari@hks.harvard.edu.

www.atlas.cid.harvard.edu
CID Donors & Founding Members of The Atlas

CID would like to thank its donors for their generous multiyear support. They have enabled the center to build multidisciplinary teams, advance our knowledge through new research agendas, and disseminate our ideas in ground-breaking ways. Since its inception, CID has generated tremendous global reach and we are grateful for the commitment and generous support of our donors who have helped us achieve real impact in the field of development.

Alejandro Santo Domingo
Anonymous Donors

CID is grateful for the support of The Founding Members of The Atlas. The Founding Members are instrumental in supporting the utility of The Atlas Online as the main platform disseminating CID’s innovative growth research enabling policymakers, entrepreneurs, academics, students and anyone with access to the Internet to map the diversification and prosperity for 128 countries.

The Atlas’ reach is extensive—in 2015 alone, 190,000 users in 220 countries and territories actively engaged with the website. The generosity of our donors has made this reach possible.

BBVA
CAF Development Bank of Latin America
International Centre for Sport Security
Investec Asset Management
Mindteck
The Coppel Group
agenda

Wednesday, April 13th
TAUBMAN BUILDING, 79 JFK ST, HARVARD KENNEDY SCHOOL

4:00pm – 4:45pm  REGISTRATION

4:45pm – 5:00pm  WELCOMING REMARKS

Douglas W. Elmendorf, Dean of the Harvard Kennedy School of Government

5:00pm – 5:30pm  ECONOMIC DEVELOPMENT AS COLLECTIVE KNOWHOW: HOW CAN WE MAKE IT GROW?
Ricardo Hausmann, Director of the Center for International Development at Harvard University;
Professor of the Practice of Economic Development at the Harvard Kennedy School

5:30pm – 6:30pm KEYNOTE - THE SECRET OF LEARNING: INSIGHTS FROM COMPUTERS AND HUNTER-GATHERERS
Computers can now understand what we say and predict what we want. How do they learn? Is their learning similar to our learning? What new insights emerge from the new field of machine learning that may help us understand ourselves? Humans do not survive and thrive because of their individual wits. Instead, they rely on massive amounts of “practices, techniques, heuristics, tools, motivations, values and beliefs” they acquire from others. What insights from our long history as a species of hunter-gatherers can help us better understand how we accumulate collective knowhow? What is the role of culture in the modern era, and how do contemporary organizations, cities, and countries learn? How can we accelerate the collective learning process in an increasingly connected and complex world?
Leslie Valiant, Jefferson Coolidge Professor of Computer Science and Applied Mathematics,
School of Engineering and Applied Sciences, Harvard University
Joseph Henrich, Professor of Human Evolutionary Biology, Harvard University,
Moderated by Ricardo Hausmann, Director of the Center for International Development at Harvard University;
Professor of the Practice of Economic Development at the Harvard Kennedy School

6:30pm – 7:30pm  COCKTAIL

7:30pm – 9:30pm  DINNER & KEYNOTE - LEVERAGING THE POWER OF PREDICTION FOR POLICY DESIGN: THE POTENTIAL OF MACHINE LEARNING

Powered by large amounts of data, algorithms today can do pretty amazing things; from recognizing faces to understanding language. Remarkably, the engine underneath these feats is a statistical one—combining large amounts of data to produce fundamental statistical insights. If viewed from the correct light, could this same engine be used to transform public policy? Could we leverage approaches designed for facial recognition to shape the way we think about the social sciences? How would these algorithms perform in these alternative settings?
Sendhil Mullainathan, Robert C. Waggoner Professor of Economics in the Faculty of Arts and Sciences at Harvard University
Thursday, April 14th
TAUBMAN BUILDING, 79 JFK ST, HARVARD KENNEDY SCHOOL

8:00am – 8:30am   BREAKFAST

8:30am – 8:45am   WELCOME REMARKS
Marcela Escobari, Executive Director of the Center for International Development at Harvard University

8:45am – 10:45am  SESSION ONE - ACCELERATING STRUCTURAL TRANSFORMATION: HOW CAN POLICY FACILITATE BECOMING GOOD AT NEW ACTIVITIES?
Countries don’t grow by making more of the same. They change what they do and how they do it, and tend to diversify by moving into more complex, higher productivity activities. In fact, the developing countries that have managed to sustain high growth rates for lengthy periods of time did so by dramatically changing their economic structure. This process of change is challenging both for markets and governments.

On one hand, we do not know how to do the things we do not do, suggesting that markets for the skills and inputs of new activities may not be present. On the other, governments do not provide the public goods demanded by industries that do not yet exist. How are governments designing and implementing their structural transformation policies? What are the political economy implications of these attempts? How can the cooperation between innovators and government be improved? How can elite capture and incumbent bias be limited?

Luis Videgaray, Minister of Finance and Public Credit, Mexico
Luis Céspedes, Minister of Economy, Development and Tourism, Chile
Piero Ghezzi, Minister of Production, Peru
Miguel Braun, Secretary of Commerce, Argentina
Murtaza Jafferjee, Chief Executive Officer and Managing Director at JB Securities Ltd.
Ivan Rossignol, Chief Technical Specialist, Trade and Competitiveness Global Practice, World Bank Group

Moderated by Ricardo Hausmann, Director of the Center for International Development at Harvard University; Professor of the Practice of Economic Development at the Harvard Kennedy School

10:45am – 11:15am  COFFEE BREAK

11:15am – 12:15pm  SESSION TWO - MAKING GROWTH MORE INCLUSIVE: PRINCIPLES FOR A BROAD BASED ECONOMIC AGENDA
Modern production requires access to many inputs and to a diverse set of skills. Achieving this everywhere within a country is extremely challenging. As a consequence, growth tends to concentrate in the few areas that offer that diversity. This is particularly true in less developed countries where increasingly modern sectors of production tend to locate in one or a few areas, usually the central business district of cities, which remain surrounded by areas of low productivity, characterized by urban self-employment or rural subsistence-based farming. What are the challenges to make growth more inclusive in the developing world?

Donald Kaberuka, Former President of the African Development Bank and former Finance Minister of Rwanda
Kingsley Moghalu, Former Deputy Governor of the Central Bank of Nigeria
SESSION THREE - THE MOVEMENT OF PEOPLE AND THE DIFFUSION OF KNOWLEDGE: MIGRANTS AS AGENTS OF ECONOMIC CHANGE IN HOME AND HOST COUNTRIES

In a world where information can move through phone calls, Skype, FaceTime, e-mail, Dropbox, Wikipedia, open source and search engines, business travel is still growing at twice the rate of world growth, representing 1.2 trillion dollars. Firms are deploying more expats than ever, in spite of their higher cost. Why do corporations still feel they need to move brains rather than move information to brains? What does this tell us about the connection between migration and the diffusion of knowledge and knowhow? At the same time, migration has been a highly controversial policy area in both rich and poor countries and the current mood in both Europe and the US has been towards tighter controls. What does the evidence show about the costs and benefits from the movement of people across firms, regions and countries? What are the likely costs and benefits of tighter controls?

Lant Pritchett, Professor of Practice of Economic Development, Harvard Kennedy School

Matt Marx, Mitsui Career Development Professor and an Associate Professor of Technological Innovation, Entrepreneurship, and Strategic Management at the MIT Sloan School of Management

Frank Neffke, Senior Research Fellow at Center for International Development Growth Lab at Harvard University

Moderated by Enrico Spolaore, Professor of Economics, Tufts University

1:15pm – 2:45pm  LUNCH & KEYNOTE - ECONOMIC RULES: WHY ECONOMICS WORKS, WHEN IT FAILS AND HOW TO TELL THE DIFFERENCE

After the financial crisis the credibility of the economics profession took a major hit in the public eye. However, it is worthwhile to ask “what failed?” Is the theoretical underpinning of the profession structurally flawed or have some practitioners simply gone astray from the fundamental principles of economic analysis? Understanding what are the intellectual blind spots of economics and how they should be internalized is a key component of a fundamental shift in thinking that is required in the profession in order to responsibly move forward. The future of economics might be better served by avoiding the question of “which is the right model?” alternatively focusing on identifying “which model is appropriate for the specific task at hand.”

Dani Rodrik, Ford Foundation Professor of International Political Economy at the Harvard Kennedy School

Moderated by Tyler Cowen, Holbert L. Harris Professor of Economics at George Mason University

2:45pm – 4:00pm  SESSION FOUR - CITIES AS AN ENGINE FOR GROWTH AND PROSPERITY: WHAT ARE THE LEVERS?

Cities are now home to the majority of humanity. They have been the cauldrons of unprecedented prosperity, allowing people with diverse knowhow to cooperate, create and produce, but they are also the source of a wide range of challenges: congestion, slums, crime, socio-economic segregation, and environmental degradation. This session aims to identify the levers that best allow cities to deliver on their promise, while containing their pitfalls. What are the new insights into how cities work
and what can policies do to make them work better?

Edward Glaeser, Fred and Eleanor Glimp Professor of Economics, Harvard University and author of “Triumph of the City: How our greatest invention makes us richer, smarter, greener and happier”

Amy Liu, Vice President and director of the Metropolitan Policy Program at the Brookings Institute

Sergio Fajardo, Former Governor of Antioquia and Former Mayor of Medellin, Colombia

Luis Bettencourt, Professor of Complex Systems, Santa Fe Institute and member of the President’s Council of Advisors on Science and Technology Working Group on “Technology and the future of cities”

Moderated by Eduardo Lora, Senior Fellow, Center for International Development at Harvard University and President of the Latin American and the Caribbean Economic Association

4:00pm – 4:30pm  COFFEE BREAK

4:30pm – 5:45pm  SESSION FIVE - DATA REVOLUTION: HOW CHANGES IN DATA COLLECTION AND ANALYSIS ARE CHANGING THE WORLD AROUND US

Data is being generated at an astonishing rate as the traces of individual actions, and now even that of machines, are stored and accumulated. New techniques, including machine learning, are being developed to make that data more useful. As it accumulates more information, the Internet is becoming an increasingly useful public good. How will this influence the way we live, organize businesses, design policies and carry out academic research?

Alex ‘Sandy’ Pentland, Toshiba Professor of Media, Arts, and Sciences, Massachusetts Institute of Technology

Susan Crawford, Professor at Harvard Law School, a Co-Director of the Berkman Center and former Special Assistant to the President for Science, Technology, and Innovation Policy

José María Álvarez-Pallete López, Chief Operating Officer, Telefónica

Michele Coscia, Research Fellow, Center for International Development at Harvard University

Moderated by Alberto Abadie, Professor of Public Policy, Harvard Kennedy School

5:45pm – 6:00pm CLOSING REMARKS

Ricardo Hausmann, Director of the Center for International Development at Harvard University; Professor of the Practice of Economic Development at the Harvard Kennedy School

6:00pm – 7:00pm RECEPTION
JOSEPH HENRICH  
henrich@fas.harvard.edu  
Professor of Human Evolutionary Biology, Harvard University

Joseph Henrich’s research focuses on evolutionary approaches to psychology, decision-making and culture, and includes topics related to cultural learning, cultural evolution, culture-gene coevolution, human sociality, prestige, leadership, large-scale cooperation, religion and the emergence of complex human institutions. Methodologically, he integrates ethnographic tools from anthropology with experimental techniques drawn from psychology and economics. His areas of interest include Amazonia, Chile and Fiji.

SENDHIL MULLAINATHAN  
mullain@fas.harvard.edu  
Robert C. Waggoner Professor of Economics, Harvard University & Cornell Tech Fellow

Sendhil Mullainathan is the Robert C. Waggoner Professor of Economics in the Faculty of Arts and Sciences at Harvard University and a Cornell Tech Fellow. His real passion is behavioural economics. His work runs a wide gamut: the impact of poverty on mental bandwidth; whether CEO pay is excessive; using fictitious resumes to measure discrimination; showing that higher cigarette taxes makes smokers happier; modelling how competition affects media bias; and a model of coarse thinking. His latest research focuses on using machine learning and data mining techniques to better understand human behaviour.

He enjoys writing, having recently co-authored “Scarcity: Why Having too Little Means so Much” and writes regularly for the New York Times. He helped co-found a non-profit to apply behavioural science (ideas42), co-founded a center to promote the use of randomized control trials in development (the Abdul Latif Jameel Poverty Action Lab), serves on the board of the MacArthur Foundation, and has worked in government in various roles, including most recently as Assistant Director of Research at the Consumer Financial Protection Bureau.

Much to the surprise of those who know him, he is a recipient of the MacArthur “genius” Award, was designated a “Young Global Leader” by the World Economic Forum, labelled a “Top 100 Thinker” by Foreign Policy Magazine, and named to the “Smart List: 50 people who will change the world” by Wired Magazine (UK). His hobbies include basketball, board games, googling and fixing-up classic espresso machines. He also enjoys speaking about himself in the third person, which works well for bios but less well in daily life.
DANI RODRIK
dani_rodrik@harvard.edu
Ford Foundation Professor of International Political Economy, Harvard Kennedy School


Professor Rodrik returned to the Kennedy School in July 2015 after two years at the Institute for Advanced Study in Princeton as the Albert O. Hirschman Professor.

LESLEY VALIANT
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Jefferson Coolidge Professor of Computer Science and Applied Mathematics, School of Engineering and Applied Sciences at Harvard University

Leslie Valiant was educated at King's College, Cambridge; Imperial College, London; and at Warwick University where he received his Ph.D. in computer science in 1974. He is currently T. Jefferson Coolidge Professor of Computer Science and Applied Mathematics in the School of Engineering and Applied Sciences at Harvard University, where he has taught since 1982. Before coming to Harvard he had taught at Carnegie Mellon University, Leeds University, and the University of Edinburgh.

His work has ranged over several areas of theoretical computer science, particularly complexity theory, learning, and parallel computation. He also has interests in computational neuroscience, evolution and artificial intelligence and is the author of two books, “Circuits of the Mind”, and “Probably Approximately Correct”.

He received the Nevanlinna Prize at the International Congress of Mathematicians in 1986, the Knuth Award in 1997, the European Association for Theoretical Computer Science EATCS Award in 2008, and the 2010 A. M. Turing Award. He is a Fellow of the Royal Society (London) and a member of the National Academy of Sciences (USA).
ALBERTO ABADIE
alberto_abadie@harvard.edu
Professor of public policy, Harvard Kennedy School

Alberto Abadie is a Professor of public policy at Harvard University, where he teaches advanced quantitative methods and program evaluation. His research areas are econometrics, statistics, causal inference, and program evaluation. Prof. Abadie’s methodological research focuses on statistical methods to estimate causal effects and, in particular, the effects of public policies, such as labor market, education, and health policy interventions.

He is an associate editor of Econometrica, and has previously served as editor of the Review of Economic and Statistics and associate editor of the Journal of Business and Economic Statistics. He received his PhD in economics from MIT.

José María Álvarez-Pallete López
Chief Operating Officer, Telefónica

José María Álvarez-Pallete is member of the Board of Directors of Telefónica SA since July 2006, as well as the Board for Fundación Telefónica. Since September 2012 he is Chief Operating Officer of Telefónica S.A. He joined Telefónica in February 1999 as CFO of Telefónica Internacional. Along his career at Telefónica he has held different responsibilities such as CFO of Telefónica SA, executive Chairman of Telefónica Latin America and Executive Chairman of Telefónica Europe.

Born in Madrid in 1963, he has a degree in Economics from the Universidad Complutense of Madrid. He also studied Economics at the Free University of Brussels, in Belgium. He holds an International Management Program Degree from IPADE and an Advanced Research Degree from the Complutense University of Madrid. Prior to Telefónica, Álvarez-Pallete held different responsibilities at Arthur Young, Benito & Monjardín/Kidder, Peabody & Co. (part of GE) and CEMEX, where he held different responsibilities as head of the Investor Relations and Studies department, CFO in CEMEX Spain and CFO in CEMEX Indonesia, with base in Jakarta.

Along his professional career, he has received different awards: CFO Europe Best Practice Award (2001), Honorary Member of Carlos III Foundation Latin-American Forum (2003), Award of Excellence by the Association of Telecommunication Technical Engineers (2013) and Medalla Sorolla 2014 by The Hispanic Society of America. Recently he has been recognized as one of 100 Most Creative People (2014) by Fast Company and awarded Innovative Corporate Leader of the Year 2014 (Bravo Awards by Latin Trade).
LUÍS BETTENCOURT
Bettencourt@santafe.edu
Professor of Complex Systems, Santa Fe Institute

Luís M. A. Bettencourt is a Professor of Complex Systems at the Santa Fe Institute. He was trained as a theoretical physicist and obtained his PhD from Imperial College (University of London, UK) in 1996, for research in statistical and high-energy physics models of the early Universe. He has held postdoctoral positions at the University of Heidelberg (Germany), Los Alamos National Laboratory (Director’s Fellow and Slansky Fellow) and at MIT (Center for Theoretical Physics).

Bettencourt has worked extensively on cities and urbanization. His research emphasizes the creation of new interdisciplinary synthesis to describe cities in quantitative and predictive ways, informed by the growing availability of empirical data worldwide. His research interests also include the modeling of innovation and sustainability in developing human societies, the dynamics of infectious diseases and aspects of general information processing in complex systems. He is particularly interested in the interplay between information, structure and scale in setting the properties of diverse complex systems.

He is the author of over 80 scientific papers and several edited books. He regularly reviews papers for leading journals in Interdisciplinary Science, Physics, Urban Studies, Neuroscience, Epidemiology, Computer Science and Applied Mathematics.


MIGUEL BRAUN
Secretary of Commerce, Government of Argentina

Braun has a Ph.D. and a master’s in Economics from Harvard University and a Bachelor’s in Economics from University of San Andrés (UdeSA). Braun is Professor of Finance at the University of Buenos Aires (UBA), and taught Macroeconomics, Public Finance and Political Economy in UdeSA and in Torcuato Di Tella University (UTDT).

He has been a Visiting Researcher at Inter-American Development Bank (IADB) and member of the Review Panel LACEA Economics. He worked as a consultant for the Inter-American Development Bank (IADB), the World Bank, ECLAC and UNICEF in various projects related to fiscal policy in Argentina and Latin America.

Co-Founder and Executive Director at CIPPEC (Center for the Implementation of Public Policies promoting Equity and Growth), he was Director at Banco Ciudad and Executive Director at Fundación Pensar.
LUIS FELIPE CÉSPEDES CIFUENTES
Minister of Economy, Development and Tourism of Chile

Minister of Economy, Development and Tourism, Mr. Céspedes has a Bachelor Degree in Business and Economics, with a major in Economics, from Pontificia Universidad Católica de Chile, and a Ph.D. in Economics from the New York University.

He has held several positions at the Central Bank of Chile, last as Head of Research Department. From 2006 to 2009, he served as Chief Economic Advisor for the Finance Ministry in Chile. He has been visiting scholar for the Research Department, at the Inter-American Development Bank and the International Monetary Fund. He held teaching positions at the Universidad de Chile, Universidad Católica de Chile, Universidad Adolfo Ibañez and Rutgers University in New Jersey.

He has written extensively in the fields of monetary policy, exchange rate and fiscal policy.

MICHELE COSCIA
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Research Fellow, Center for International Development at Harvard Kennedy School

Michele Coscia obtained his Master in Digital Humanities (2008) and his PhD in Computer Science (2012) from the University of Pisa. He then spent seven months conducting research at Northeastern University's Center for Complex Network Research, led by Albert-Laszlo Barabasi. Michele currently works as a Growth Lab Fellow at CID.

He is trained in data mining and his research is focused primarily on Complex Network analysis, particularly on multidimensional networks, i.e. networks expressing multiple different relations at the same time.

He currently works on the connection between complex networks, human mobility and knowledge flows. His research aims to understand how knowledge passes from one person to another as the result of business travels, telecommunication and commuting, and the repercussions of these dynamics on economic growth and development.

TYLER COWEN
tcowen@gmu.edu
Holbert L. Harris Professor of Economics, George Mason University

Professor Cowen is the Holbert L. Harris Chair of economics at George Mason University and Director of the Mercatus Center.

He has written prolifically on macroeconomics, cultural economics, political philosophy and ethics. His most recent publications include Average is Over: Powering America Beyond the Age of the Great Stagnation (2013), An Economist Gets Lunch: New Rules for Everyday Foodies (2012), and The Great Stagnation: How America Ate All the Low-Hanging Fruit of Modern History, Got Sick, and Will (Eventually) Feel Better Again (2011).
Cowen writes for the popular economics blog The Marginal Revolution on a daily basis, and currently for Economics from Harvard University. He also received a nomination as one of the most influential economists in the last decade in a survey by The Economist and was selected as one of the “Top 100 Global Thinkers” in 2011 by Foreign Policy Magazine. He has recently started a new project in on-line education, MRUniversity.com.

SUSAN CRAWFORD
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Professor at Harvard Law School, Co-Director of the Berkman Center and former Special Assistant to the President for science, technology and Innovation Policy

Susan Crawford is the John A. Reilly Clinical Professor of Law at Harvard Law School and a co-director of the Berkman Center. She is the author of Captive Audience: The Telecom Industry and Monopoly Power in the New Gilded Age, co-author of The Responsive City: Engaging Communities Through Data-Smart Governance, and a contributor to Medium.com’s Backchannel. She served as Special Assistant to the President for Science, Technology, and Innovation Policy (2009) and co-led the FCC transition team between the Bush and Obama administrations.

Crawford also served as a member of Mayor Michael Bloomberg’s Advisory Council on Technology and Innovation and is now a member of Mayor Bill de Blasio’s Broadband Task Force. Ms. Crawford was formerly a (Visiting) Stanton Professor of the First Amendment at Harvard’s Kennedy School, a Visiting Professor at Harvard Law School, and a Professor at the University of Michigan Law School (2008-2010).

As an academic, she teaches courses about city uses of technology, Internet law, and communications law.

Crawford was a member of the board of directors of ICANN from 2005-2008 and is the founder of OneWebDay, a global Earth Day for the Internet that takes place each Sept. 22. One of Politico’s 50 Thinkers, Doers and Visionaries Transforming Politics in 2015; one of Fast Company’s Most Influential Women in Technology (2009); IP3 Awardee (2010); one of Prospect Magazine’s Top Ten Brains of the Digital Future (2011); and one of TIME Magazine’s Tech 40: The Most Influential Minds in Tech (2013). Ms. Crawford received her B.A. and J.D. from Yale University. She served as a clerk for Judge Raymond J. Dearie of the U.S. District Court for the Eastern District of New York, and was a partner at Wilmer, Cutler & Pickering (now WilmerHale) (Washington, D.C.) until the end of 2002, when she left that firm to enter the legal academy.
DOUGLAS ELMENDORF
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Dean, John F. Kennedy School of Government at Harvard University & Don K. Price Professor of Public Policy

Douglas W. Elmendorf is Dean of the John F. Kennedy School of Government at Harvard University, where he also serves as the Don K. Price Professor of Public Policy.

Doug Elmendorf served as the director of the Congressional Budget Office from January 2009 through March 2015. Prior to joining CBO, he was at Brookings, where he was a senior fellow, the Edward M. Bernstein Scholar, and the director of The Hamilton Project. He was previously an assistant professor at Harvard University, a principal analyst at CBO, a senior economist at the White House’s Council of Economic Advisers, a deputy assistant secretary for economic policy at the Treasury Department, and an assistant director of the Division of Research and Statistics at the Federal Reserve Board. In those positions, he worked on budget policy, health care issues, the macroeconomic effects of fiscal policy, Social Security, income security programs, financial markets, macroeconomic analysis and forecasting, and other topics.

Doug Elmendorf earned his Ph.D. and A.M. in economics from Harvard University, where he was a National Science Foundation graduate fellow, and his A.B. summa cum laude from Princeton University.

MARCELA ESCOBARI
marcela_escobari@harvard.edu
Executive Director, Center for International Development at Harvard Kennedy School

Marcela Escobari is the Executive Director of Harvard University’s Center for International Development, setting the center’s strategic direction and leading initiatives that foster prosperity in developing countries. Previously, as head of the Americas region at the OTF Group (a spin-off of Monitor Group), she advised governments on how to increase export competitiveness and harness the private sector to eradicate poverty.

She also advised the president of the Dominican Republic on the country’s industrial policy, the government of Colombia on revitalizing its tourism industry, and the Jamaican entertainment and tourism industries on increasing their earning potential. She began her career as a Mergers & Acquisitions banker at JP Morgan in New York. Escobari currently serves on the board of Root Capital, an organization financing rural development. The World Economic Forum recently named her a Young Global Leader in 2013. She co-authored the book “In the River They Swim: Essays from around the World on Enterprise Solutions to Poverty”. She holds a BA in Economics from Swarthmore College and an MA in Public Policy from the Harvard Kennedy School.

SERGIO FAJARDO
Former Governor of Antioquia, & former Mayor of Medellín, Colombia

Former Governor of the state of Antioquia, Colombia and previous mayor for the city of Medellín (2003 to 2007), Sergio’s career has oscillated from journalism and academia to
independent politician. Mathematician by training with a Ph.D. in Mathematics and minor in Economics from the University of Wisconsin-Madison, Sergio was a member of the National Council on Basic Sciences, the National Commission on Masters and Doctorates and Director of the Center for Science and Technology in Antioquia.

As Governor, Sergio has developed innovative processes for resource allocation in rural areas for cultural and educational facilities with the program Parques Educativos. His work in the transformation of Medellin has acquired international recognition as a model for citizen participation and transparency in the use of public resources. Sergio was a recipient of the Curry Stone Design Prize in 2009.

PIERO GHEZZI
Minister of Production of Peru

Before his current position, he was a Managing Director, Global Head of Economics, Emerging Markets and Foreign Exchange Research at Barclays between 2007 and 2013.

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Edward Glaeser is the Fred and Eleanor Glimp Professor of Economics in the Faculty of Arts and Sciences at Harvard University, where he has taught since 1992. He teaches urban and social economics and microeconomic theory. He has published dozens of papers on cities, economic growth, and law and economics. In particular, his work has focused on the determinants of city growth and the role of cities as centers of idea transmission. He received his PhD from the University of Chicago in 1992.
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Ricardo Hausmann is the Director of the Center for International Development at Harvard University and Professor of the Practice of Economic Development at the Harvard Kennedy School.

Previously, he served as the first Chief Economist of the Inter-American Development Bank (1994-2000), where he created the Research Department. He has served as Minister of Planning of Venezuela (1992-1993) and as a member of the Board of the Central Bank of Venezuela. He also served as Chair of the IMF-World Bank Development Committee.

Ricardo Hausmann has also served as a Professor of Economics at the Instituto de Estudios Superiores de Administracion (IESA) (1985-1991) in Caracas, where he founded the Center for Public Policy. His research interests include issues of growth, structural transformation, macroeconomic volatility, international finance, and the social dimensions of development. He holds a Ph.D. in economics from Cornell University.

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Hedrick-Wong is currently Chief Economist and Chair of the Academic Advisory Council at MasterCard Center for Inclusive Growth, and Global Economic Advisor, MasterCard Worldwide. Prior to his global role, he was Economic Advisor to MasterCard in Asia/Pacific, Middle East, and Africa from 2001 to 2009.

He was HSBC Visiting Professor of International Business at the University of British Columbia, Canada from 2010 to 2014; Adjunct Professor at the School of Management, Fudan University, Shanghai, China from 2006 to 2011 and Visiting Professor at the Graduate School of Business, University of Chicago, Singapore from 2003 to 2004.

Hedrick-Wong is a Canadian who spent 25 years working in Europe, Sub-Sahara Africa, Middle East, North Africa, and Asia Pacific before returning to Canada in 2011. He has served as advisor to over fifty leading multinational companies in North America, Asia Pacific, Middle East, Africa and Europe.

He studied philosophy, political science, history and economics at Trent University, and pursued post-graduate training at the University of British Columbia and Simon Fraser University in Canada, where he received his Ph.D.

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Murtaza Jafferjee is Chief Executive Officer of JB Securities Ltd and has 20 years of industry experience in the stock market in Sri Lanka. He was a past president of CFA Society of Sri Lanka, the local member society of the CFA Institute, and currently holds the advocacy chair whose responsibilities include promoting good ethical practices. He served on the board of the Colombo Stock Exchange from August 2007 to Jul 2009. He is currently an independent director of Serendib Hotels PLC and Nations Trust Bank PLC. He has a Bachelor’s Degree in Mechanical Engineering and Computer Science from the University of NSW, Australia and a Masters in Financial Economics from the University of Colombo. He is also a Chartered Financial Analyst (CFA). He has recently been appointed to the General Office of the Agency for Development, an initiative led by the Prime Minister of Sri Lanka to help accelerate economic development in the country.

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Former President, Africa Development Bank Hauser & Former Finance Minister of Rwanda

Donald Kaberuka is former President of the African Development Bank Group and Chairman of the Board of Directors. He stepped down on September 1, 2015 after ten years, and is considered as one of the most transformational leaders at the Bank.

During his tenure as President of the African Development Bank, Kaberuka bolstered its franchise value, tripled its capital from USD 30 billion to USD 100 billion, and doubled the bank’s portfolio. Kaberuka’s leadership was particularly characterized by a “big push” on the private sector and leading from the front on infrastructure. He championed an inclusive growth agenda; promoted a strong link between security, development and the environment, establishing a ring-fenced facility for conflict affected countries; and appointed an International High Level Panel on fragile states led by President Ellen Johnson Sirleaf of Liberia. He put in place an Africa Natural Resource Center and the African Legal Support Facility to provide support to African countries managing natural resource wealth.

Prior to becoming Finance Minister of Rwanda, Kaberuka worked in the private sector in the commodities business, including a term as Chief Economist of the Inter-African Coffee Organization.

Kaberuka also served as Governor for Rwanda for the International Monetary Fund and the World Bank from 1997 to 2005. His private interests include classical music and wildlife conservation. Kaberuka currently serves on the Board of Trustees of the World Economic Forum, the Mandela Institute (Minds) and the Mo Ibrahim Foundation. He is also a member of several international panels on finance and development.

Kaberuka is an alumnus of the University of Glasgow in Scotland, and has been a Visiting Fellow at the Institute of Development Studies of Sussex University in England.
AMY LIU  
Vice President & Director, Metropolitan Policy Program at The Brookings Institution

Amy Liu, Vice President and Director of the Metropolitan Policy Program, is a national expert on cities and metropolitan areas adept at translating research and insights into action on the ground. As director of the Metro Program, which Liu co-founded in 1996, she pioneered the program’s signature approach to policy and practice, which uses rigorous research to inform strategies for economic growth and opportunity.

Liu has worked directly on such strategies with scores of public and private sector leaders in regions around the country, including Chicago, Kansas City, and Phoenix.

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Eduardo Lora is a senior fellow at Harvard’s Center for International Development. He has been Chief Economist of the Inter-American Development Bank (2008-2012) and Executive Director of Fedesarrollo, Colombia (1991-1996). He is the President of the Latin American and the Caribbean Economic Association (LACEA) and editor of Vox.Lacea. He has a monthly column in the Colombian magazine Dinero. His academic and professional awards include the title of “Distinguished Alumnus” of the London School of Economics, where he obtained his M.Sc. in Economics in 1982.

He has published in numerous academic journals and has been the coordinator and main author of several books on Latin American development issues, most recently More than Revenue: Taxation as a Development Tool (2013), The State of State Reform in Latin America (2008), and Beyond Facts: Understanding Quality of Life (2008). He is also the author of a textbook of Economic Statistics that is now in its fourth edition (Técnicas de Medición Económica, only in Spanish).

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Matt Marx is the Mitsui Career Development Professor of Entrepreneurship and Associate Professor of Technological Innovation, Entrepreneurship, and Strategic Management at the MIT Sloan School of Management. He studies the mobility of knowledge workers as well as the commercialization and diffusion of new technologies.

He is known for his work on employee non-compete agreements and has testified frequently on behalf of reform efforts. His work has been recognized with a Kauffman Junior Faculty Fellowship and the INFORMS award for best innovation and entrepreneurship article published in Management Science or Organization Science during 2009.

Professor Marx previously worked as a software engineer and an executive at technology startups SpeechWorks and Tellme, where he received six patents. He holds a B.S. in Symbolic Systems from Stanford University, a master’s degree from the MIT Media Lab, and an MBA as well as a doctoral degree from Harvard Business School.
KINGSLEY MOGHALU  
Former Deputy Governor, Central Bank of Nigeria

Kingsley Chiedu Moghalu served as Deputy Governor of the Central Bank of Nigeria from 2009-2014. He is a Professor of International Business and Public Policy and Senior Fellow in the Council on Emerging Market Enterprises at The Fletcher School of Law and Diplomacy at Tufts University in Boston, as well as a Senior Adviser to the Official Monetary and Financial Institutions Forum (OMFIF) in London, UK.

Professor Moghalu is the Founder of Sogato Strategies, a global strategy, risk and macroeconomic consulting firm in the United States, Switzerland and Nigeria. He also is a Partner in the US law firm Cooke Robotham LLP. Kingsley Moghalu previously held senior posts in the United Nations system, in which he served for 17 years.


He obtained his doctorate of philosophy (Ph.D.) degree at the London School of Economics, the M.A. at The Fletcher School at Tufts University, the LL.B. at the University of Nigeria, and the International Certificate in Risk Management at the UK Institute of Risk Management in London.

Professor Moghalu is a distinguished international speaker at global forums on business, banking and finance, development, and economic policy. His opinion commentary has appeared in global media including the Financial Times, Washington Post, USA Today, and the International Herald Tribune, and is a frequent guest commentator on CNN Television, BBC World TV, Bloomberg TV, and CNBC.

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Frank Neffke is a Senior Research Fellow at CID’s Growth Lab. His research focuses on how economic actors diversify from one productive activity to another. Central in this research is that activities can be more or less similar in terms of the capabilities or skills they require. This similarity is shown to affect diversification processes throughout the economy, ranging from individuals’ career paths and corporate diversification strategies, to structural change in regional and national economies.

Before joining the CID, Frank worked as an assistant professor at the Erasmus School of Economics in Rotterdam, The Netherlands. He holds a Ph.D. in Economic Geography from Utrecht University and Master degrees in Econometrics and Philosophy from the University of Amsterdam.
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Professor Alex “Sandy” Pentland directs the MIT Connection Science and Human Dynamics labs and previously helped create and direct the MIT Media Lab and the Media Lab Asia in India.

He is one of the most-cited scientists in the world, and Forbes recently declared him one of the “7 most powerful data scientists in the world” along with Google founders and the Chief Technical Officer of the United States.

He has received numerous awards and prizes such as the McKinsey Award from Harvard Business Review, the 40th Anniversary of the Internet from DARPA, and the Brandeis Award for work in privacy.

He is a founding member of advisory boards for Google, AT&T, Nissan, and the UN Secretary General, a serial entrepreneur who has co-founded more than a dozen companies including social enterprises such as the Data Transparency Lab, the Harvard-ODI-MIT DataPop Alliance and the Institute for Data Driven Design.

He is a member of the U.S. National Academy of Engineering and leader within the World Economic Forum.

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In addition to being a Kennedy School Professor, he is a Senior Fellow of the Center for Global Development. He was co-editor of the Journal of Development Economics and worked as a consultant to Google.org.

He graduated from Brigham Young University in 1983 with a B.S. in Economics and in 1988 from MIT with a Ph.D. in Economics.

After finishing at MIT Lant joined the World Bank, where he held a number of positions in the Bank’s research complex between 1988 and 1998, including as an adviser to Lawrence Summers when he was Vice President from 1991-1993. From 1998 to 2000 he worked in Indonesia. From 2000 to 2004 Lant was on leave from the World Bank as a Lecturer in Public Policy at the Kennedy School of Government at Harvard University. In 2004 he returned to the World Bank and moved to India where he worked until May 2007.

Lant has been part of the team producing many World Bank reports and he has authored (alone or with one of his 22 co-authors) over 50 papers published in refereed journals, chapters in books, or as articles, at least some of which are sometimes cited. In addition to economics journals his work has appeared in specialized journals in demography, education, and health. In 2006 he published his first solo authored book, Let Their People Come, and in 2013 his second, The Rebirth of Education: Schooling Ain’t Learning.
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Mr. Ivan Rossignol is the Chief Technical Specialist, Trade and Competitiveness Global Practice of the World Bank Group. In this global role, Rossignol leads the Bank knowledge and operational agenda on issues related to Growth Strategies and Competitiveness. He focuses on clusters, value chains, enclave approaches (incl. economic zones and growth poles), and growth corridors. He also leads the practice’s work on Fragile and Conflict Affected countries.

Prior to his current role, he was the World Bank’s practice manager for the Finance and Private Sector unit in South Asia. In over 20 years with the World Bank Group, Rossignol has held several positions, including Sector Leader in the Sustainable Development Department of the Africa Region; MIGA’s Special Representative in Africa. He was also seconded to COMESA in Africa to help set-up the African Trade Insurance Agency, a multilateral agency registered under the United Nations Charter. He has spent over 10 years in field office postings, in India, Cameroon, Kenya and Zimbabwe.

Prior to joining the World Bank Group, Rossignol worked as a financial risks broker for the Banque Française du Commerce Extérieur (now Natixis) in Paris - France.

Rossignol was an Adjunct Professor at the Public Policy Institute (McCourt School) of Georgetown University (2005 -2008), where he lectured on international financial institutions and development economics. He recently delivered several lectures at the Harvard Kennedy School. He holds a Diploma from the Institut Supérieur du Commerce (Masters Degree, Paris, France).

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Miguel Angel Santos is a Senior Research Fellow at the Center for International Development at Harvard University and a Ph.D. candidate in Economics at Universidad de Barcelona. He has been responsible for CID engagements in Mexico (Chiapas and the Mexican Atlas of Economic Complexity), Panama and Venezuela.

Before joining academia, Miguel Angel accumulated more than ten years of experience doing corporate finance and business development in Latin America, working for large family business, investment banks, and multinational companies. He holds two M.Sc. degrees in Economics and Specialized Economic Analysis from Universitat Pompeu Fabra, and a Master in Public Administration from Harvard Kennedy School of Government.

He has been granted the right to use the Chartered Financial Analyst (CFA) designation since 2004. In 2013, he was the Head of the Macroeconomic Policy Team for presidential candidate Henrique Capriles Radonski in the Venezuelan elections of that year. Miguel Angel is an Adjunct Professor to the Center of Finance at IESA, where he has been teaching macroeconomics and corporate finance since 1997.
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Enrico Spolaore is a Professor of Economics at Tufts University and a Research Associate at the National Bureau of Economic Research (NBER), where he is a member of the Political Economy Program. He is also a CESifo Fellow at the University of Munich and an External Associate at the University of Warwick’s Centre for Competitive Advantage in the Global Economy (CAGE).

Spolaore received an undergraduate degree (Laurea) in Economics and Commerce from the University of Rome, a doctoral degree (Dottorato di Ricerca) from the University of Siena, and a Ph.D. in Economics from Harvard University.

His main research interests are in political economy, economic growth and development, and international economics.


Before joining the Tufts faculty in 2004, Spolaore held faculty positions at the Université Libre de Bruxelles, Ohio State University, Boston College, and Brown University. He also worked as a consultant for the Confederation of Italian Industries (Confindustria) and the European Commission. At Tufts he served as Chair of the Economics Department between 2006 and 2012.

LUIS VIDEGARAY
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Videgaray has a Ph.D. in Economics from Massachusetts Institute of Technology (MIT) and a B.A in Economics from Instituto Tecnológico Autónomo de México (ITAM).

He is the Minister of Finance and Public Credit of Mexico since 2012. Prior to that, Videgaray was the Director for Government Transition of Mexico’s President-elect, Enrique Peña Nieto. He was also Campaign Director for the Institutional Revolutionary Party’s Mexican Presidential Candidate, Mr. Nieto and for the Gubernatorial Candidate of the State of Mexico, Eruviel Ávila Villegas. In 2011 he was also President of the Institutional Revolutionary Party State Executive Committee for the State of Mexico.
Prior to that, Videgaray was a Representative in the 61st session of the Mexican House of Representatives and served as President of the Budget and Public Account Commission.

He was Finance Secretary for the Government of the State of Mexico from 2005 to 2009 and National Coordinator of Secretaries of State Finances between 2008 and 2009.

Videgaray served as Director of Public Finance at Protego, S.A. from 1998 to 2005. Prior to that, he had been Advisor to the Mexican Secretary of Energy and to the Mexican Secretary of Finance and Public Credit.

In 2014, Videgaray was awarded “Finance Minister of the Year” by Euromoney magazine; “Global and the Americas Finance Minister of the Year” by The Banker magazine; and “Latin American Minister of Finance of the Year” by América Economía magazine. He was also awarded the Banamex Economic Award in 1995.