





# We design and test solutions for the problems of poverty.



The Center for Effective Global Action (CEGA) is a hub for research on poverty and global development, with a network of 80 academic researchers anchored at the University of California, Stanford University, and the University of Washington. Our faculty affiliates use rigorous evaluations, tools from data science, and new measurement technologies to assess the impacts of large-scale social and economic development programs. CEGA brings a scientific lens to global development, integrating empirical economic analysis with expertise in agriculture, public health, education, engineering, and the environment.



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Front Cover Image: Traffic and mobility is difficult in downtown Patna, Bihar, India.



Female members of a nutrition education center receive polio immunizations for their children in Kamuli, Uganda, 2015. Image: Brandie Nonnecke





# CEGA's vision is a world that uses data and rigorous analysis to fight poverty.

*Everywhere we look, markets are being transformed by new digital data streams, sensing technologies, algorithms, and analytics. Yet these advances have been relatively slow to impact poverty and inequality. We are changing this.*

*In the last year, we have been developing a host of innovative tools to promote equitable economic development -- from our Digital Credit Observatory, which aims to build new markets while protecting consumers, to our work in the energy sector, which leverages smartphones to monitor electricity reliability. We are also working with governments to design and test algorithms that monitor for corruption and fraud, with the aim of improving delivery of much-needed services for the poor.*

*CEGA also innovates in “analog.” For example, in Senegal our researchers have been testing agricultural policies that improve product quality while increasing farmers’ profits. In Uganda, we have been studying teacher incentives designed to improve classroom performance and increase student learning outcomes. The Center also has become a leader in the ‘open science’ movement, developing new tools to improve the transparency, reproducibility, and trustworthiness of social science research.*

*This year we entered new territory with the launch of the Opportunity Lab, an exciting initiative that incorporates a focus on domestic poverty and inequality. The O-Lab’s work, which draws on Berkeley’s strengths in U.S. labor, taxation, criminal justice, environment, and social safety net policy, will complement our ongoing programs in developing countries and allow us to address challenges that cross borders.*

*Every project we launch helps solve a puzzle related to poverty, inequality, and development. Each study generates new knowledge to advance the field, and many will go on to inspire evidence-based scale-ups. In a time when the value of research is routinely challenged, we are working toward a world in which science and evidence are used to advance human development.*



**Edward Miguel**

*Faculty Director*



**Temina Madon**

*Executive Director*



# Agriculture

*Agricultural productivity is key to transforming rural economies in the developing world, but more evidence is needed to improve the productivity, profitability and welfare of smallholder farmers. The Agricultural Technology Adoption Initiative (ATAI), co-led by CEGA and the Abdul Latif Jameel Poverty Action Lab (J-PAL), generates rigorous evidence on agricultural technologies that can improve livelihoods.*

**17**  
new studies  
launched in Zambia,  
Niger, Mali, and three  
states in India.

**\$1.3 million**  
in research funding  
awarded in 2016-  
2017.



CEGA affiliates Alain de Janvry and Elisabeth Sadoulet host an ATAI training in Dakar, Senegal. Image: Alain de Janvry





# Energy and Environment



Gram Power Meters, Rural Electric Power Project (REPP) in Rajasthan, India. Image: Yashraj Khaitan

***In the context of growing demand for energy in low and middle income countries, there is limited evidence to guide policymakers in the design of large-scale, sustainable, and cost-effective energy solutions. The Energy and Economic Growth (EEG) program, funded by the UK Department for International Development (DFID) and led by Oxford Policy Management (OPM), rigorously studies how modern energy systems can reduce poverty and bolster economic growth in the developing world. CEGA helped OPM launch this program in 2016.***



Over the past year, CEGA has worked closely with EEG to set the stage for its research investment. Together we commissioned a series of state-of-knowledge papers on energy access and reliability, clean energy technology, renewables integration, and utility governance and regulation. Policy workshops in Nepal and Tanzania, and a research & matchmaking conference in Washington, D.C. engaged a range of energy stakeholders to help shape the EEG agenda.

**18**

**State-of-Knowledge papers produced by leading energy researchers.**

**80+**

**participants at policy workshops in Nepal and Tanzania.**

Meanwhile, CEGA affiliates contribute to a growing body of research on the returns to investments in reliable, sustainable energy systems in the developing world. This year, CEGA's Technology initiative supported a study in Kenya that is monitoring leakage, accountability, and technical construction outcomes for a massive grid extension program rolled out by the central government. The study will explore how to reduce leakage and other governance issues that can affect the impacts of large-scale electrification.



# Financial Inclusion

*For the world's 2 billion unbanked adults, improving access to digital payments and financial services could facilitate critical income- and welfare-generating activities. To help develop the market, CEGA launched the Financial Inclusion Lab (FIL) in 2015, supported by a gift from Visa.*



Product beneficiary, Dominican Republic Image: Sean Higgins



In July 2016, Visa and CEGA convened a research exchange that led to the selection of four pilot studies. In one of these pilots, CEGA affiliate Michael Callen is exploring the feasibility of using mobile payments to transfer earthquake reconstruction funds in Nepal. The initiative is also supporting two ongoing large-scale studies by CEGA affiliate Paul Gertler and colleagues. They are working in Mexico to measure the effectiveness of e-payment-enabled tablets for small business owners, and in the Dominican Republic to evaluate lines of credit for national cash transfer recipients, featuring automatic repayment.

**\$32,500**

**in DCO pilot funding awarded to projects in India, China, the Dominican Republic, and Haiti.**

**\$60,000**

**in Visa pilot funding to projects in Sierra Leone, Nepal, Kenya, and the Dominican Republic.**

This year, CEGA launched the Digital Credit Observatory (DCO) with a \$4 million grant from the Bill & Melinda Gates Foundation. Over three years, the DCO will fund a coordinated body of research on the delivery, impact, and regulation of digital credit and consumer protection products. In May 2017, the DCO hosted a matchmaking workshop, convened a Digital Credit 'Community of Practice,' and funded its first set of research studies. Five pilot grants were awarded to support early-stage, exploratory research that will feed into the greater DCO evidence base.



# Global Networks

*Through its Global Networks portfolio, CEGA invests in the next generation of researchers living in developing countries. The portfolio currently includes two programs that equip social scientists in Africa and Asia with the skills, knowledge, and networks needed to carry out rigorous policy research in their home countries.*



The 2016 Impact Evaluation Summit in Dar Es Saleem, Tanzania.  
Image: Kuranda Morgan

**4**  
visiting fellows from  
Ethiopia, Kenya, and  
Uganda.

**130**  
participants at the  
Impact Evaluation  
Summit in Dar es  
Salaam.



## EASST Overview

In 2016-17, the East Africa Social Science Translation (EASST) Collaborative brought four Fellows to UC Berkeley to audit courses, carry out research, and build new academic collaborations. They will join a network of more than 20 EASST Fellows who have studied at UC Berkeley and other CEGA universities. Collectively, this network has engaged hundreds of students and policy-makers in rigorous impact evaluation.

To accelerate the translation of evidence into action, this year we launched a “Policy and Partnerships” grant competition. The award helps EASST fellows to develop government partnerships, with the aim of bringing research findings directly into policy-making. Two Uganda-based fellows were awarded grants: Kizito Omala will help scale-up Teaching at the Right Level (TaRL) in partnership with the Ministry of Education, and Jayne Tusiime will design a new evaluation of the recently launched Community Health Workers Extension Strategy (CHEWS) in conjunction with the Ugandan Ministry of Health.

Convening our scholars with regional partners and decision-makers is an important goal of the EASST network. In July 2016 , EASST hosted a multi-day Impact Evaluation Summit in Tanzania, in partnership with the University of Dar es Salaam and the World Bank’s Strategic Impact Evaluation Fund (SIEF). Seven Fellows and three partners presented their research findings to a mix of academics, government and NGO staff, and donors. In conjunction, SIEF and EASST hosted an impact evaluation workshop which was attended by 100 policy-makers from the region.



EASST Fellows (from left to right) Dagim Belay and Jayne Tusiime. Image: Emily Martin



## BRAC-CEGA Collaborative

In April 2017, the BRAC-CEGA Learning Collaborative (BCLC) was renewed with funding from Canada's International Development Research Centre (IDRC). The program institutionalizes the use of rigorous impact evaluation within BRAC, focusing on programs in Uganda, Tanzania, Sierra Leone, Liberia, and South Sudan. Over the next three years, we will bring 6 BRAC Fellows to the US for training. The program will also host research and matchmaking events, train BRAC program managers in impact evaluation methods, and fund research projects co-led by BRAC and CEGA researchers.

**3**

grants awarded to teams of BRAC and CEGA researchers to seed new research.

**6**

ongoing studies jointly conducted by BRAC researchers and CEGA affiliates.

In Spring 2017, BCLC held a travel grant competition to seed new research collaborations between BRAC and CEGA researchers, as well as and contribute to BRAC's capacity to incorporate rigorous evidence into its programming. The three awardees will explore the effects of emergency loans for extreme weather events; the relationship between a household's choice to migrate and their financial decision-making; and the impacts of BRAC's Safe Citizen Program which provides girls with tools to "protect, protest, and resist sexual harassment in public places."



# Health



WASH benefits study, Kenya, February 2011.  
Image: Carson Christiano

*Behavioral factors like procrastination, social pressure, choice overload, and belief in misinformation can prevent individuals and their health care providers from achieving optimal reproductive outcomes. CEGA researchers partner with service providers and government agencies to identify these behavioral constraints, design interventions to overcome them, and then rigorously evaluate effectiveness in “real world” settings.*

**New**

multi-country study of provider bias in Pakistan, Burkina Faso, and Tanzania.

**100+**

participants attended annual conference on Behavioral Economics and Global Health.



With support from the William & Flora Hewlett Foundation, CEGA's Behavioral Economics in Reproductive Health Initiative (BERI) has provided seven catalytic grants to researchers addressing reproductive health challenges in Sub-Saharan Africa, and an additional six grants to fund behavioral economics (BE) research in global health more broadly.

Five studies—including those exploring social reminders for antenatal care, commitment devices for institutional deliveries, and the engagement of male “influencers” in social networks—are ongoing as of fiscal year 2017. All BERI projects are carried out in partnership with ministries of health or major NGOs collaborating with government, to maximize the likelihood of in-country scale-up of research findings.

Additionally, BERI recently expanded its portfolio to include impact evaluations in Burkina Faso, Tanzania, and Pakistan. The “Beyond Bias” project, a collaboration with Pathfinder International and the Bill & Melinda Gates Foundation, aims to improve adolescent reproductive health outcomes by reducing provider biases and improving contraceptive counseling and services. As a result of this expansion, BERI is now involved in both the demand and supply sides of the health sector.



# Institutions

*Public institutions are critical to economic growth, yet they remain among the most under-studied contributors to global development. To help close this evidence gap, CEGA is evaluating strategies to improve public service delivery and strengthen the political process in developing countries.*

**\$3 million**  
in research funding  
awarded in 2017 to  
support new studies.

**17**  
studies launched in  
9 countries and 4  
Indian states.



Civics training delivered through women's group in Madhya Pradesh, India. Image: Soledad Artiz Prillaman



Central to CEGA's work this space is the Economic Development & Institutions (EDI) program, led by Oxford Policy Management (OPM) with support from UK Aid. In partnership with EDI, CEGA is funding a portfolio of randomized trials to inform the design of taxation policies, judicial systems, electoral processes, and pay-for-performance systems.

This year, EDI funded 17 pilot and full-scale randomized evaluations. In one study, CEGA affiliate Katherine Casey will conduct groundbreaking research on how political debates in Sierra Leone influence voter decisions, with lessons for other low-income countries. In another study, affiliate Aprajit Mahajan is working with CEGA data scientist Ofir Reich and the Delhi tax authority to develop machine learning algorithms for identifying likely VAT evasion by firms.

Also this year, CEGA explored how technology increases government performance, accountability, and citizen engagement. In May 2017, we hosted our eighth annual Evidence to Action (E2A) symposium on "Smart Government: Harnessing Technology for Public Good," with participation from 12 high-level decision-makers and 24 private sector technology partners.



# Measurement



Fields being monitored in the One Acre Fund study.  
Image: Marshall Burke and David Lobell

***CEGA is committed to improving the quality and reliability of evidence generated by development researchers. Toward this end, we promote the use of novel tools for targeting and evaluating anti-poverty programs, especially in data-scarce regions of the world. Our portfolio includes applications of sensor networks (IoT), satellites, and machine learning that lower the costs of data collection while improving the range and frequency of development outcomes that can be captured. Additionally, the Center cultivates new approaches for tracking study respondents and measuring impacts over time, recognizing the value in understanding the long-run impacts of poverty alleviation programs.***



In October 2016, CEGA held its third annual measurement conference, on [Infrastructure Monitoring](#). The event, held jointly with the World Bank's DIME Group, convened academic researchers, private sector partners, and World bank staff to discuss cutting edge technologies for evaluating the performance of infrastructure investments—from transport systems and utilities to rural infrastructure (such as irrigation and crop warehousing). Participants included tech sector companies like Planet, Premise, DigitalGlobe, Facebook, and Cisco plus researchers from Berkeley, MIT, Stanford, UC San Diego and more.

**New**  
collaboration  
on retrospective  
long-term impact  
evaluations.

**60**  
participants at third  
annual Measurement  
Conference.

CEGA is also a partner of “Expanding the Reach of Impact Evaluation (ERIE),” a consortium program supported by USAID’s Global Development Lab, facilitating retrospective long-term impact evaluations of completed interventions. The evaluations in the ERIE portfolio either leverage existing program data to assess whether observed short-term impacts are sustained, or investigate results that might only be expected over the long run, often using satellite imagery.



# Opportunity Lab



USDA School Gardening Program. Image: USDA

**\$2 million**  
in research funding  
raised.

**25+**  
affiliated faculty.



*Inequality has risen to the top of the public and intellectual agenda. In the United States, the share of wealth held by the top 0.1% is at a level almost as high as in the Gilded Age. The Berkeley Opportunity Lab (O-Lab) uses rigorous empirical research to address persistent issues of poverty and inequality both domestically and abroad.*

This year CEGA supported the launch of the O-Lab, an affiliated research initiative focused on domestic poverty and inequality. Complimenting CEGA's work abroad, O-Lab tackles questions about the causes and consequences of economic inequality in the United States and other high-income countries. Its research is organized around the following six themes:

- Climate & Environment
- Social Safety Net & Employment
- Education & Child Development
- Taxation & Inequality
- Health
- Crime & Criminal Justice Policy

In 2017, O-Lab held two events in San Francisco and one at UC Berkeley, after successfully securing a competitive seed grant from Berkeley's Office of the Vice Chancellor for Research. The events brought together academics and members of the public to hear affiliated faculty speak on topics ranging from the implications of President Trump's proposed tax-and-transfer policy to the synergistic effects of pre-K and K-12 spending on children's long-run educational attainment.



# Technology



DIL researcher Daniel Nover takes measurements with the StreamDev team in Nepal. Image: Joshua Viers



*Harnessing technology for global development is at the core of CEGA's mission. Our technology portfolio, the Development Impact Lab (DIL), is a USAID-funded research program co-managed by CEGA and the Blum Center for Developing Economies. Launched in 2012, DIL integrates expertise in the social sciences with engineering innovation, to develop technology-intensive solutions for a range of development challenges.*

**\$881,000**  
in 6 top-up grants.

**80+**  
attendees at State of  
the Science event.

This year, DIL made competitive “accelerator” awards to six projects already within the DIL portfolio, with the aim of nudging promising research advances out of the university (and into practice). For example, CEGA affiliate Jeremy Magruder and colleagues are helping to refine an online job portal in India by including a skills assessment tool using interactive voice response (IVR). Earlier, they found evidence that skills assessments can make informal and entry-level jobs more accessible to job-seekers without formal credentials.

CEGA also supported the deployment of a novel electricity grid monitoring system, called GridWatch, that harnesses the sensors on smartphones to track power outages. The prototype technology was launched in Kenya last year, and CEGA affiliate Catherine Wolfram will help transfer the technology to Ghana next year, with support from the government power utility and the Millennium Challenge Corporation.

Through DIL, CEGA continues to support the creation of a new academic discipline, “Development Engineering,” that marries tech innovation with advances in research on markets, institutions, and human behavior. In May 2017, we opened the [second volume](#) of the open access journal *Development Engineering*, including publications by CEGA affiliates Sandra McCoy and David Levine.



# Transparency

*The Berkeley Initiative for Transparency in the Social Sciences (BITSS) was established as a response to weaknesses in research practices documented across social science fields. BITSS promotes openness, reproducibility, and integrity through consensus-building, education and training, and meta-research activities with the ultimate goal of improving the quality and credibility of research and strengthening the scientific base driving public policy.*

**\$87,349**

in Catalyst Grants  
awarded to 13  
individuals in 11  
countries.

**6,584**

graduate students,  
researchers, and  
faculty trained in  
research transparency.



Attendees to Catalyst & BITSS Fellow's Workshop at University of Yaounde, Cameroon. Image: Elise Sonne



To engage the next generation in research transparency, BITSS supported 27 workshops, conferences, and seminars this year, reaching over 2,000 graduate students, researchers, and policymakers. Training highlights include workshops with J-PAL and 3ie in India, INSP in Mexico, and the first run of our Massive Open Online Course (MOOC). In December 2016, BITSS convened its fifth Annual Meeting with 85 researchers and policymakers, and announced the institutionalization of our annual Summer Institute with an award from the National Institutes of Health (NIH).

BITSS saw a rapid expansion of its Catalyst Program in 2017, a formalized network of researchers working to advance research transparency. Now with 82 researchers in 24 countries, Catalysts are developing open science curricula, presenting at high profile conferences, and training the next generation of researchers. To recognize leaders advancing and exemplifying openness and transparency in research, BITSS awarded 10 Leamer-Rosenthal Prizes for Open Social Science in 2017.

This year, BITSS also completed a detailed literature review and discussion of efforts to enhance the reliability of economics research. This piece, titled “Transparency, Reproducibility, and the Credibility of Economics Research” is currently available as a NBER working paper and BITSS Preprint, and is forthcoming from the Journal of Economic Literature. BITSS also supported two research projects focused on meta-science led by Global South researchers in its third round of SSMART grants.



# Featured Events



## Africa

*July 12-14, 2016*

*East Africa Impact Evaluation  
Workshop and Evidence Summit  
Dar es Salaam, Tanzania*

*July 14, 2016*

*Energy and Economic Growth: Sub-  
Saharan Africa Policy Workshop  
Dar es Salaam, Tanzania*

*December 12-17, 2016*

*EASST collaborates with ASE at  
Summer Institute for Econ Research  
Cotonou, Benin*



## Asia

*March 16-17, 2017*

*Research Transparency and  
Reproducibility Workshop  
New Delhi*

*September 28, 2017*

*Energy and Economic Growth: South  
Asia Policy Workshop  
Kathmandu, Nepal*



## Middle East

*January 6-8, 2017*

*Working Group in African Political  
Economy (WGAPE) Special Meeting  
Abu Dhabi, United Arab Emirates*



## North America

*September 23, 2016*

*Behavioral Economics and Global  
Health Conference  
Berkeley, California*

*September 26, 2016*

*The Science of Scaling: Evidence to  
Advance Anti-Poverty Innovations  
Berkeley, California*

*October 13, 2016*

*Annual Conference on Measurement  
Technology (III): Infrastructure  
Monitoring  
Berkeley, California*

*December 15-16, 2016*

*BITSS Annual Meeting  
Berkeley, California*

*March 11, 2017*

*Pacific Conference for Development  
Economics (PacDev)  
Riverside, California*

*May 4, 2017*

*What does Trump mean for the 99  
percent?  
San Francisco, California*

*May 10, 2017*

*Evidence to Action: Harnessing  
Technology for Public Good  
San Francisco, California*

*May 24-25, 2017*

*Digital Credit Observatory  
Matchmaking Workshop  
San Francisco, California*

*June 1-2, 2017*

*Annual Bank Conference on Africa:  
The Challenges and Opportunities of  
Transforming African Agriculture  
Berkeley, California*

*June 7-9 2017*

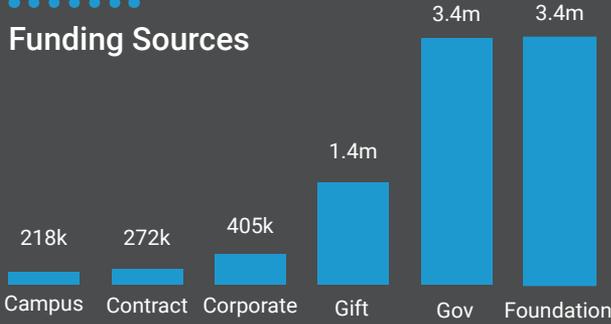
*BITSS Research Transparency  
Training & Workshop  
Berkeley, California*



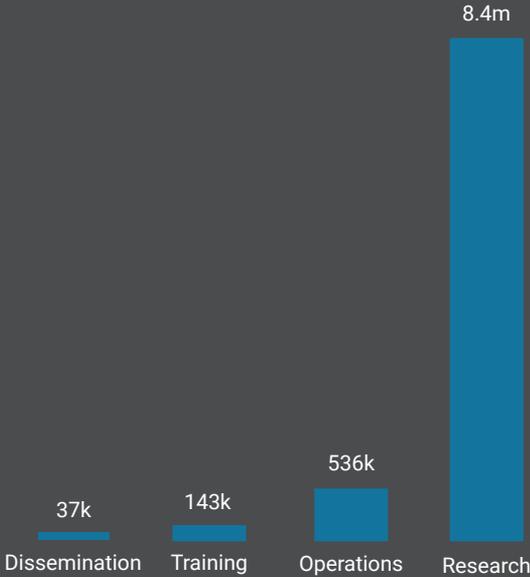
# Financials



## Funding Sources



## Expenses





# Supporters



## \$0 - \$4,999

Brian & Jennifer Blatnik  
Charles & Feralee Levin  
Douglas Wyatt & Shehla Imran  
Eduardo Montoya  
Ellen Ruth Levin  
First Republic Bank  
John Snider  
Michael Callen  
Nikesh Jayanti Patel  
Priyanka Rajagopalan & Anand  
Subramanian  
Salil Pitroda  
Sharon Gay Lapid  
Shirish Gupta & Pinkee Rasik Gupta  
Stephen Abel & Joanne Dane Brodke  
Tami Mulcahy  
Stephen Abel & Joanne Dane Brodke  
Tami Mulcahy



## \$5,000 - \$14,999

Anand Radhakrishnan  
Matt and Lisa Chanoff  
Matthew Lynde



## \$15,000 - \$99,999

Taneja Family Foundation  
BMW of North America  
Samsung Electronics Corporation  
Sony Corporation  
UC Berkeley College of Letters & Science



## \$100,000+

Anonymous  
Apple Computer  
BASF Corporation  
Bill and Melinda Gates Foundation  
Good Ventures  
Laura and John Arnold Foundation  
National Institutes of Health  
Oxford Policy Management  
Pathfinder International  
Research Council of Norway  
UC Berkeley Vice Chancellor for Research  
UK Department for Int'l Development  
USAID  
Weiss Family Program Fund  
William and Flora Hewlett Foundation



# Leadership



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*Executive Director*

Edward Miguel  
*Faculty Director*



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## Faculty Committee

Joshua Blumenstock  
Ernesto Dal Bo  
Paul Gertler  
Aprajit Mahajan  
Craig McIntosh  
Grant Miller  
Manisha Shah  
Catherine Wolfram



## Fellows

*Jayne Byakika Tusiime*  
*Busitema University*

*Dagim Belay*  
*University of Copenhagen*

*Christine Simiyu*  
*KCA University, Kenya*

*Michael Mbate*  
*London School of Economics*

*Soazic Elise Wang Sonne*  
*United Nations University - MERIT*



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People



# Affiliates



UC Berkeley

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Alain de Janvry

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Benjamin Faber

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Supreet Kaur

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Nancy Padian

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Raul Sanchez de la Sierra

Catherine Wolfram

Noam Yuchtman



## Stanford

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Marcel Fafchamps  
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Beatriz Magaloni-Kerpel  
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Karthik Muralidharan  
Simeon Nichter  
Paul Niehaus  
Margaret Roberts  
Charles Sprenger



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Graeme Blair  
Darin Christensen  
Miriam Golden  
Ricardo Perez-Truglia  
Daniel Posner  
Manisha Shah



## University of Washington

Brian Dillon  
Mary Kay Gugerty  
Rachel Heath  
James Long



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Image: Rod Long