



Innovating
for
positive

social
change

Research. Inspire. Change.

CEGA is the West Coast hub for global development research. Headquartered at UC Berkeley, CEGA's large, interdisciplinary research network—including a growing number of scholars from low- and middle-income countries—identifies and tests innovations designed to reduce poverty and promote development. Our researchers use rigorous methods as well as novel measurement tools—including wireless sensors, mobile data, and analytics—to evaluate complex programs. Through careful matchmaking, competitive grantmaking, and research dissemination activities, CEGA ensures that the research we produce is relevant, timely, and actionable to policymakers.



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ANNIE SPRATT



JASON COOPER



Letter from the Directors

CEGA envisions a world where technological and social innovation, backed by rigorous research, is used to accelerate global development.



This year, the Center for Effective Global Action (CEGA) turns ten.

Since 2008, CEGA has grown from a handful of faculty and staff working on projects at the University of California, Berkeley to a well-respected leader in the field of global development research. While CEGA’s thematic focus has evolved, we remain committed to generating high-quality evidence that leverages innovation in data and measurement, promotes transparent and reproducible research methods, and engages local scholars and policy-makers as collaborators on our work.

In FY18, CEGA drove **innovation in measurement** by hosting an inaugural “Geospatial Analysis for International Development (Geo4Dev)” conference; supporting research on the use of algorithms to assess credit risk and identify fraud; and coordinating a suite of studies that test the use of cash as a benchmark for measuring the effectiveness of anti-poverty programs. We recognize the value in merging insights from social science and data science, and are currently fundraising for activities that facilitate this type of collaboration across sectors.

CEGA continues to be a leader in **research transparency**, having trained over 22,000 researchers to date in the use of tools and methods to enhance openness, reproducibility, and integrity in the social sciences. In addition to piloting pre-results review at the Journal of Development Economics, we have begun to develop a focus on Open Policy Analysis, which brings transparency and credibility to the process of public sector decision-making. In FY18 CEGA secured \$2.2 million for our **Global Networks program**, extending the East Africa Social Science Translation (EASST) Collaborative for an additional five years. The formation of the Network of Impact Evaluation Researchers in Africa (NIERA), made up of former EASST fellows, is testament to the success of our capacity building efforts in the region.

This year, CEGA is excited to announce a new initiative on the **Psychology and Economics of Poverty (PEP)**. PEP will establish a new landmark research agenda on the cognitive and behavioral effects of poverty by cultivating a tight-knit community of development economists, cognitive and social psychologists, and other scientists working on poverty reduction. The **Opportunity Lab (O-Lab)**, which CEGA helped to launch last year, recently secured \$1 million for new initiatives in “Labor Science” and place-based policy. O-Lab’s work, which draws on UC Berkeley’s strengths in U.S. labor, taxation, criminal justice, environment, and social safety net policy, complements CEGA’s focus on developing countries, allowing us to address challenges that cross borders.

In FY19, CEGA seeks to **expand our global footprint**. Over the next few years, we plan to design and pilot a model for cost-effectively coordinating with government partners in key regions to identify tractable research questions, develop studies in collaboration with CEGA affiliates, and create pathways to scale for proven approaches.

As the role of scientific evidence in policy making continues to be tested, CEGA remains as committed as ever to inspiring positive global change through innovation backed by rigorous research.

Sincerely,

Ted Miguel, Faculty Director

Carson Christiano, Executive Director



Agriculture

Improving smallholder agriculture in poor countries remains a cornerstone of global development, yet there is limited empirical evidence on how to catalyze sustainable change. The Agricultural Technology Adoption Initiative (ATAI), co-led by CEGA and the Abdul Latif Jameel Poverty Action Lab (J-PAL), generates rigorous data and insights needed to inform productive investments in agricultural development.

JONATHAN TORGOVNIK



The Agricultural Technology Adoption Initiative (ATAI) is a transformative research program generating important insights that guide agricultural investments in Sub-Saharan Africa and South Asia. To date, ATAI has sponsored more than 50 randomized evaluations in 17 countries, leveraging the expertise of 50 implementing partners and over 100 faculty researchers.

Over the past year, ATAI made special efforts to share research and policy insights with a broad range of stakeholders at 19 different policy events around the world. This work helped launch new partnerships with leading implementers, including TechnoServe and the FAO’s Monitoring and Analysing Food and Agricultural Policies (MAFAP) program.

In 2018, ATAI funded five new randomized evaluations examining critical issues from farmer storage in Niger and contract farming in Kenya, to output and labor markets in Ghana, Tanzania, and Uganda. New evidence generated from these studies will be added to ATAI’s research synthesis series, “Emerging Insights.” This suite of policy briefs provides tangible guidance to field partners and decision makers on improving credit and insurance products, input delivery, and training initiatives, among other topics.

CEGA’s work in agriculture is made possible with generous support from the Bill & Melinda Gates Foundation and UK Aid from the Department for International Development.

5
new studies launched in Ghana, Kenya, Uganda, Niger, and Tanzania

19
policy events, sharing ATAI evidence with policymakers in more than 10 different countries

50+
evaluations around the world since 2009



NEIL PALMER

Central to CEGA's work on financial inclusion is the Digital Credit Observatory (DCO), supported by the Bill & Melinda Gates Foundation. The DCO funds a coordinated body of research on the delivery, impact, and regulation of digital credit and consumer protection products, and sustains an active "community of practice" of field and policy partners. CEGA's Financial Inclusion Lab, a complementary initiative initially supported by Visa, supports research exploring the digitization of microcredit for businesses and individuals in the Dominican Republic and Mexico.

In FY18, the DCO awarded over \$1.7 million in competitive research funding and an additional \$840,000 to studies analyzing the impact of digital credit products on poverty. Studies explore how digital credit products affect liquidity, capital, and overall wellbeing of consumers in a number of developing countries including Mexico, the Dominican Republic, Haiti, Malawi, Ghana, Kenya, Uganda, and India. DCO supported research seeks to understand the impact of digital credit access, the effectiveness of financial literacy programs and payment reminders, and the best ways to design credit-scoring algorithms to maximize consumer benefits and minimize lender risks.

\$2.8m

supporting 12 studies

14

organizations in DCO's community of practice



JONATHAN TORGOVNIK



Financial Inclusion

The rapid proliferation of mobile phones and development of digital financial products impact the daily lives of people all over the world. CEGA advances research on how new tools for managing money—from mobile payments, to digital credit and insurance—can help low-income households save, borrow, transact, and grow their businesses.



Health & Psychology

Health systems play a central role in driving economic growth by supporting productivity, well-being, and resilience. However, constraints to the delivery and adoption of health services—including reproductive health, mental health, and the treatment of communicable and non-communicable disease—can greatly undermine the effectiveness of these systems. CEGA works with governments, NGOs and private sector partners to examine health sector challenges and inspire better health policy in low-income countries.

JONATHAN TORGOVNIK

New

initiative on the Psychology and Economics of Poverty

\$300K

in seed funding raised

CEGA's health portfolio launched in 2012 with support by the Hewlett Foundation. The Behavioral Economics in Reproductive Health Initiative (BERI) focused on the behavioral factors that affect reproductive outcomes in developing countries and worked with healthcare organizations to identify both patient and health worker behavioral constraints, design interventions to overcome them, and then rigorously evaluate effectiveness in "real world" settings.

In FY18, CEGA built on the central tenets of BERI to develop a new initiative focused on the Psychology and Economics of Poverty (PEP). PEP will explore how preferences, beliefs, and decisions affect households living in poverty in developing countries. In May 2018, CEGA organized a small convening to coalesce our community of practice, tap psychologists and economists interested in joint research, spark collaborations, and inform our new research agenda. This convening helped secure \$300K in seed funding for our new PEP initiative.



PAULA BRONSTEIN



JUAN ARREDONDO

In 2015, the UK Department for International Development (DFID) launched the Economic Development & Institutions (EDI) program, seeking to fill critical research gaps on the role public institutions play in catalyzing economic growth and development. In collaboration with Oxford Policy Management, CEGA leads a core component of EDI: building a portfolio of coordinated randomized controlled trials to test high-profile policy reforms in real-world institutions. In the past year, EDI competitively funded 13 new evaluations in 8 countries, led by 41 researchers in collaboration with 22 implementing partners.

In FY18, CEGA launched the Governance Research Coordination Committee (GRCC), a community of practice that supports harmonization across research efforts, including related research centers as well as donors and multilaterals. In parallel, we developed an “Evidence Watch” webinar series, which brings funders and researchers together to discuss emerging insights from the sector. Finally, we collaborated with the Transparency and Accountability Initiative (TAI) to conceptualize quality assurance for research that involves artificial intelligence for public sector accountability and effectiveness, ensuring actionable evidence for policymakers. We are currently working with TAI to design an initiative on the fair, accountable, and transparent (FAT) use of machine learning for better governance.

8

full-scale and 5 pilot RCTs funded in 8 different countries

17

participants in launched webinar series



Institutions

Governments and civil society groups around the world are seeking new ways to promote effective public service delivery, citizen participation, and fair and transparent systems of governance. CEGA works with these reformers to co-create solutions and rigorously evaluate their outcomes.

JONATHAN TORGOVNIK



Technology

Economic growth and wellbeing are increasingly driven by technological advances--from big-data, mobile computing and automation, to digital connectivity and the creation of new infrastructure. These innovations are transforming access to information, labor markets, human capital development, and productivity across the world, particularly in low-income countries. CEGA works across disciplines and sectors to design, evaluate, and support potential high-impact technologies that empower the poor and grow economies.

Central to CEGA's technology portfolio is the Development Impact Lab (DIL), an applied research program funded by USAID and co-managed with the Blum Center for Developing Economies at UC Berkeley. This year, DIL celebrated its fifth anniversary, marking the end of its initial award. Over the course of those five years, DIL launched a new academic discipline, "Development Engineering," and funded more than 100 research projects, reaching over 2 million beneficiaries with technology interventions designed to improve human and economic development.

CEGA's work in the technology space gained momentum in FY18, as USAID and the Millennium Challenge Corporation (MCC) awarded \$4 million to new research led by CEGA faculty. These awards include a suite of evaluations that are using GiveDirectly's digital cash transfer programs as a benchmark for measuring the effectiveness of more conventional aid interventions (e.g. water, sanitation and nutrition programs). Another ongoing DIL study supported by a new MCC award is the deployment of a novel electricity grid monitoring system, called GridWatch, which harnesses sensors on smartphones to crowdsource power outage tracking. The prototype technology was launched in Kenya, and expanded to Ghana this year with support from the Millennium Challenge Corporation.



JESSICA DICARLO

\$4m+

in research funding raised

100+

projects in 35 countries involving more than 500 students funded over the past 5 years

In FY18 CEGA hosted two sold-out public events focused on cutting edge data analysis techniques in international development. Geo4Dev, held in September 2017, brought together over 150 faculty, grad students, and industry representatives to discuss how to harness the exploding number of geospatial datasets in international development. The two day event included a research symposium and a day of workshops facilitated by academics and private sector partners. In March 2018, AI for Economic Development, co-hosted with the World Bank, convened over 200 researchers and partners to discuss opportunities, risks, and the current state of machine learning in economic development research.

In addition to our dedicated measurement conferences, CEGA is working to understand the long-term impacts of development interventions through our collaboration with USAID's Expanding the Reach of Impact Evaluation (ERIE) consortium and the recently established Long-term Impact Discovery (LID) project supported by GiveWell. While ERIE utilizes innovative measurement technologies such as remote sensing to determine the long-term impacts of USAID programs, the LID research team is reviewing the cash transfer and child health RCT literatures to identify meaningful opportunities for long-term follow-up.

2
conferences with over
350
participants

\$600K+
dedicated to long-term impact evaluation research



ALEX HUGHES-SMITH



Measurement

New tools that can precisely measure outcomes—from household assets to student test scores, market prices, and voting behavior, combined with new methods to harness and interpret the data—can help us better understand the process and progress of economic development. CEGA works to enhance the accuracy and integrity of global development research by driving innovation in measurement tools and methods.



Global Networks

The credibility and effectiveness of evidence in informing decision-making is greatly bolstered by the participation of local scholars, who are best placed--and often the most motivated--to identify and address pressing development challenges in their home countries. CEGA's Global Networks (GN) program bolsters the capacity of scholars and institutions in low- and middle-income countries to conduct rigorous research, and facilitates the adoption of evidence by supporting high-impact policy partnerships.



East Africa Social Science Translation Collaborative (EASST)

FY18 has been a productive year from the Global Networks program. Three new East African scholars joined our network of more than 20 fellows who have audited courses, conducted research, and built new academic collaborations while spending a semester at UC Berkeley.

In July 2017, EASST hosted its 6th Annual Evidence Summit in Addis Ababa, convening over 75 local researchers, CEGA faculty, and policy makers to disseminate cutting edge development research in East Africa. At the Summit, EASST fellows formally established the Network of Impact Evaluation Researchers in Africa (NIERA), a new entity that leverages EASST's footprint in East Africa.

EASST also competitively awarded four fellows Policy & Partnership grants to institutionalize evidence in policy making. Funded projects include a one-year consulting placement with the Ugandan Office of the Prime Minister to incorporate impact evaluation into national M&E; a scale-up of an EASST-funded study on teacher transfers in Uganda; a collaboration with the President's Office of Regional Administration and Local Government to implement a results-based financing scheme for healthcare in Tanzania; and a project with the Retirement Benefits Authority in Kenya to incorporate findings from an EASST-funded study on the incorporation of SMS reminders on pension savings.

\$2.2m

raised from the National Institutes of Health and the William and Flora Hewlett Foundation in support of EASST

3

new visiting fellows from East Africa

New

spin-off impact evaluation network (NIERA) founded by EASST alumni

BRAC-CEGA Learning Collaborative

This year marked the beginning of phase two of the BRAC-CEGA Learning Collaborative (BCLC), supported by 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. In Spring 2018, the BCLC brought two visiting Fellows from BRAC International to UC Berkeley to explore new research and academic partnerships. In the coming year, the initiative will organize an in-country matchmaking event, host four additional fellows, and fund rigorous research evaluating social and economic development programs implemented by BRAC. which harnesses sensors on smartphones to crowdsource power outage tracking. The prototype technology was launched in Kenya, and expanded to Ghana this year with support from the Millennium Challenge Corporation.

2

visiting fellows from BRAC International in Uganda

3

pilot projects completed jointly between CEGA and BRAC researchers



CEGA



Working Group in African Political Economy (WGAPE)

The Working Group in African Political Economy (WGAPE) brings together faculty and advanced graduate students in Economics and Political Science who combine field research experience in Africa with training in political economy methods. In FY18, WGAPE hosted meetings at the University of British Columbia, NYU Abu Dhabi, and UCLA. In an effort to mainstream our Global Networks activities across CEQA programs, four EASST fellows and two BRAC fellows attended WGAPE meetings in FY18. With support from the Hewlett Foundation, WGAPE integrated additional African scholars into its meetings and conducted several training and matchmaking activities.



97

attendees at 3 WGAPE meetings,
27 from developing countries

5

EASST and BRAC fellows attended
WGAPE events in FY18



Transparency

CEGA launched the Berkeley Initiative for Transparency in the Social Sciences (BITSS) in 2012 response to documented weaknesses in research practices and an apparent prevalence of publication bias across the social sciences. BITSS works to improve the practice, publishing, and funding of social science research through the generation and support of rigorous meta-research, training initiatives, and institutionalization of best practices with the goal of improving the quality and credibility of research used for public policymaking.

This year, BITSS reached over 22,000 researchers with training on tools and best practices for transparent and reproducible research through workshops, a Massive Open Online Course, two Research Transparency and Reproducibility Trainings (RT2), and the efforts of a growing network of Catalysts (125 individuals who advance open science globally through critical training and advocacy work).

An active portfolio of 24 Social Science Meta-Analysis and Research Transparency (SSMART) projects have generated evidence on the effectiveness of pre-analysis plans and publishing policies in reducing specification search and publication bias; identified covariate misuse in political science journals and publication bias in psychology meta-analyses; and demonstrated the need to strengthen and enforce journal open data policies if they are to effectively drive reproducibility.

BITSS helped several prominent institutions develop new research protocols and guides last year, including Zie, the World Bank, and the National Institute of Public Health (INSP) in Mexico. We also teamed up with the Journal of Development Economics (JDE) to pilot pre-results review. The JDE pilot is generating new insights on the potential of this peer review format, used widely in other disciplines, to address publication bias and reward rigorous research in economics.

22,249

graduate students, researchers, and faculty trained in open science tools and practices through 40 training events led by BITSS and Catalysts in 18 countries

125

Catalysts working to advance research transparency and reproducibility at 95 institutions in 36 countries

New Initiatives

ANNIE SPRATT

Energy & Environment

Today, decisions about how to invest in large-scale energy systems – including expanding energy access, ensuring reliability, increasing efficiency, and promoting clean energy technologies – are made without robust information about potential social and economic impacts. CEGA faculty are testing a range of energy-related programs and policies in developing countries, where policy and business decision makers seek a better understanding of how energy investments and policies can most effectively meet rising energy demand while minimizing environmental costs. We are actively fundraising for an initiative in this space.

Refugees & Migration

In response to humanitarian crises around the world, local governments and NGOs face a host of complex challenges, from the establishment of unique identification to the need to establish emergency health services, shelter and the provision of mental health services, education, and economic opportunities to the displaced. Host communities also face major disruptions, including conflict, competition for resources and jobs, and strain on infrastructure. More rigorous research in this space is needed to inform the effective allocation of aid, while informing key program and policy decisions. Through a Bay Area convening in June 2018, and ongoing partnership development, CEGA is beginning to mobilize a research agenda around refugees & migration and is actively fundraising for an initiative in this space.

27

CEGA Affiliates working on Energy & Environment research



20

CEGA Affiliates working on Refugees & Migration research

This year, CEGA provided incubation support to the Opportunity Lab (O-Lab), an affiliated research center focused on poverty and inequality in the U.S. and beyond. O-Lab is led by influential Berkeley faculty who have transformed U.S. political dialogues—including David Card, Ben Handel, Hilary Hoynes, Jesse Rothstein, and Emmanuel Saez. This new thrust creates space for CEGA to explore domestic issues such as criminal justice and health insurance reform, as well as cross-border issues like immigration, climate change, and income inequality.

In March 2018, the O-Lab team organized a major event, “Revolutionizing Data for Public Good,” which focused on the use of rich data-sets, often generated by private companies, to improve public policy. The event convened leadership from Airbnb, Twitter, Lyft,

Facebook, Stripe and other companies resulting in several new partnerships between academic researchers and tech partners.

\$2m
in research funding raised

50
private sector and government partners at the Revolutionizing Data for Public Good event



PEDRO SZEKELY



Opportunity Lab

Income inequality is greater in the United States than in any other democracy in the developed world, and has steadily increased since the late 1960s. The Berkeley Opportunity Lab (O-Lab) uses rigorous data-driven research to address persistent issues of poverty and inequality both domestically and abroad.

JONATHAN TORGOVNIK

Featured Events



Africa

July 17, 2017
2017 East Africa Evidence Summit
Addis Ababa, Ethiopia

July 18, 2017
Advancing Food Security: Lessons
from Randomized Evaluations
Addis Ababa, Ethiopia

November 1, 2017
Research Transparency and Re-
producibility Training
Kampala, Uganda



Middle East

January 26, 2018
2018 WGAPE International Meet-
ing @ NYU-Abu Dhabi
Abu Dhabi, United Arab Emirates



Europe

September 20, 2017
RT2 London
London, United Kingdom

October 13, 2017
EDI Annual Conference
Namur, Belgium

April 4, 2018
RT2 Amsterdam
Amsterdam, Netherlands

September 9, 2018
FAO Policy Seminar: Agricultural
Market Reforms
Rome, Italy



North America

September 6, 2017
Geo4Dev
Berkeley, CA

March 1, 2018
AI for Economic Development
San Francisco, CA

March 28, 2018
Revolutionizing Data for Public
Good
San Francisco, CA

May 23, 2018
The Psychology and Economics of
Poverty
Berkeley, CA

June 6, 2018
Refugee & Migration Convening
Berkeley, CA



South America

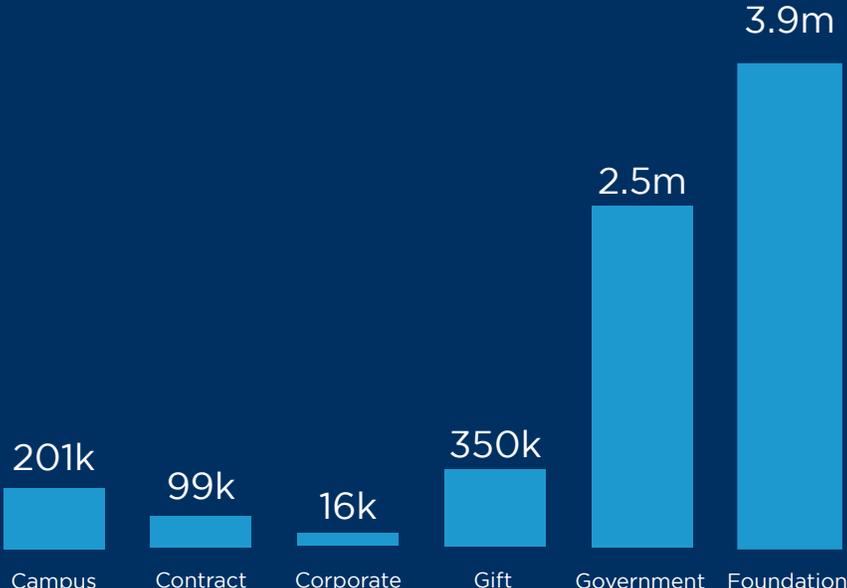
October 5, 2017
Research Transparency and Re-
producibility Training
Santiago, Chile

October 9, 2017
Research Transparency and Re-
producibility Training
Lima, Peru

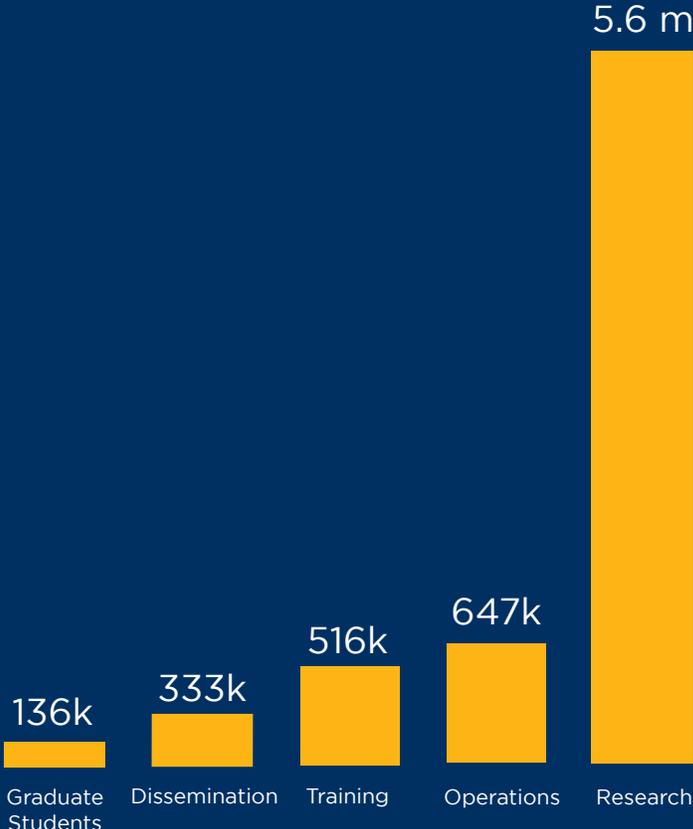
October 12, 2017
Research Transparency and Re-
producibility Training
La Paz, Bolivia

Financials

Funding Sources:



Expenses:



Supporters

\$0-\$4,999

Joseph Edelstein
Tracie Rowson
Marie Collins
Nikesh Jayanti Patel
Andrew Johnson
Shirish Gupta
David Keefe
Vivian Mei-Wen Hwa
Ellen Levin
Cornerstone Research Inc
Timothy Ng
Stephen Abel
Joshua Cohen
Mapbox
Joshua Steiner
Fidelity Charitable Gift Fund
Russell Sage Foundation

\$5,000-\$14,999

Facebook Inc
Charles Levin
First Republic Bank
Doug Wyatt
Radiant Earth
Paul Sack
Anand Radhakrishnan
UC Berkeley Haas School of
Business
Matt Chanoff
UC Berkeley College of Natural Resources

\$15,000-\$99,999

Matt Lynde
Precision Agriculture for Development

\$100,000+

Diana Walsh & Kent Walker
Bill & Melinda Gates Foundation
Thomas Mathis
Weiss Family Program Fund
Vice Chancellor for Research
UK Department for International Development
Silicon Valley Community Foundation
William and Flora Hewlett Foundation
National Institutes of Health
USAID

Leadership

Directors:

Temina Madon
Executive Director

Edward Miguel
Faculty Director

Carson Christiano
Deputy Director

Faculty Advisors:

Ernesto Dal Bó
Paul Gertler
Aprajit Mahajan
Craig McIntosh
Manisha Shah

Research Fellows:

Adrien Bouguen
Fernando Hoces de la Guardia
Sean Higgins
Kweku Opoku-Agyemang

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Dustin Marshall
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Corey Murray
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Lauren Russell
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Katie Hoeberling
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Kevin McCarthy
Senior Program Associate

Alexandra Orsola-Vidal
Adviser, Global Networks

Maya Ranganath
Program Manager, Global Networks

Jennifer Sturdy
Advisor, BITSS

Andrew Westbury
Senior Manager, Agriculture and
Institutions

Interns:

Grace Han
William Ford
Michael Mitchell
Keijan Zhao
Erika Siao
Katherine Kemp

Affiliates

UC Berkeley:

Stefano Bertozzi
Joshua Blumenstock
Eric Brewer
Jennifer Bussell
Jack Colford
Ernesto Dal Bo
Lucas Davis
Alain de Janvry
William Dow
Thad Dunning
Benjamin Faber
Lia Fernald
Frederico Finan
Meredith Fowlie
Paul Gertler
Marco Gonzalez-Navarro
Ben Handel
Solomon Hsiang
Susan Hyde
Ganesh Iyer
Supreet Kaur
David Levine
Ethan Ligon
Jeremy Magruder
Aprajit Mahajan
Ulrike Malmendier
Sandra McCoy
Edward Miguel
Cecilia Mo
Erin Murphy-Graham
Nancy Padian
Maya Petersen
Elisabeth Sadoulet
Raul Sanchez de la Sierra
Catherine Wolfram
Noam Yuchtman

UC San Diego:

Eli Berman
Prashant Bharadwaj
Jennifer Burney
Michael Callen
Clark Gibson
Joshua Graff Zivin
Gordon Hanson
Elizabeth Lyons
Craig McIntosh
Karthik Muralidharan
Simeon Nichter
Paul Niehaus
Margaret Roberts
Charles Sprenger

Stanford University:

Marcella Alsan
Marshall Burke
Katherine Casey
Arun Chandrasekhar
Pascaline Dupas
Marcel Fafchamps
David Lobell
Beatriz Magaloni-Kerpel
Grant Miller
Melanie Morten
Jeremy Weinstein

University of California, Los Angeles

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

University of Southern California:

Paulina Oliva
Simone Schaner
John Strauss

Other Universities:

Mary Kay Gugerty, University of Washington
Rachel Heath, University of Washington
James Long, University of Washington
Bruce Wydick, University of San Francisco
Alfredo Burlando, University of Oregon
Jonathan Robinson, University of California, Santa Cruz
Ajay Shenoy, University of California, Santa Cruz
Ketki Sheth, University of California, Merced
Michael Carter, University of California, Davis
Travis Lybbert, University of California, Davis
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