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GLOBAL ENGAGEMENT

Duke University

Duke University Office of GLOBAL AFFAIRS

2016-2017
Director’s Message

Dear Friends,

When I arrived in Durham in 2006, Duke University had just launched a new strategic plan that encouraged the Duke community to seek knowledge in the service of society—to advance medical discoveries, promote justice across borders, and protect the natural world and its inhabitants.

Over the past decade, scholars from a wide array of backgrounds and disciplines have come together at Duke to advance and apply that knowledge in the world around them. These efforts, big and small, are beginning to make an impact in populations around the globe.

Duke is fortunate to benefit from the insights of universities, non-governmental organizations, health systems and community organizations all over the world that have partnered with our scholars and researchers and hosted our students in addressing global challenges.

This report highlights only a sample of the Duke community’s education, research and engagement activities relating to issues of global importance. You will read about projects designed to address challenges and issues in diverse fields such as global health and healthcare delivery, global climate change, human rights and international development.

Duke University is a community of scholars with a common mission to harness the power of higher education for the larger social good. We will continue to strive to make positive change in the world as we learn from and collaborate with an invaluable network of partners around the globe.

Michael Merson
Vice President and Vice Provost for Global Affairs

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Duke students, faculty and staff exchange expertise and ideas with partners all over the world. This work is driven by the knowledge that by working together, we can address challenges that touch us all. — Sally Kornbluth

Duke University Provost

The Nicholas School of the Environment trains students to be leaders in human health and the environment, climate and energy, and terrestrial and marine ecosystems. Nicholas School faculty members are joining forces with the Environmental Protection Department of China to conduct research on ozone formation, distribution and health effects, with the goal of supporting policies that will target cost-effective controls in the region. Other researchers are focusing on the environmental factors that may predict the location and timing of malaria outbreaks in the Peruvian Amazon.

The Duke Marine Lab, which offers courses on the North Carolina coast, in Durham, at Duke Kunshan University in China and at various international field sites, addresses the quality of the Earth’s environment and the sustainable use of its natural resources.

Nicholas Foukal and fellow researchers measure overturning currents in the subpolar North Atlantic to understand the ocean’s role in climate variability.

The Duke Lemur Center, an 85-acre sanctuary for rare and endangered lemurs, is home to the largest collection of endangered primates anywhere on earth.

The center supports biological conservation through research and public outreach both in Durham and in Madagascar, where almost 20% of primate species diversity is found.

Using high-tech heat cameras, researchers at the Duke Lemur Center are studying the ways lemurs regulate their body temperature, which helps scientists predict how these species will adapt to warming environments under global climate change.

This research is also helping to identify the forest areas that will be key to these animals’ survival in the years to come.

More at lemur.duke.edu.

“Duke students, faculty and staff exchange expertise and ideas with partners all over the world. This work is driven by the knowledge that by working together, we can address challenges that touch us all.”

— Sally Kornbluth

Duke University Provost
Global Health & Wellness

“We have to figure out how to engage [people] to work on solutions that will work for low-resource communities—we must find effective, low-cost solutions for communities that simply can’t afford traditional healthcare.”

— Dr. Nimmi Ramanujam
Professor, global health and biomedical engineering

Medical doctors, engineers and other research partners at Duke University have collaborated to build the Center for Global Women’s Health Technologies (GWHT).

Researchers at the center have developed a tool for spotting and treating cervical cancer in low-resource communities.

Magnifying devices called colposcopes typically used to spot cervical cancer cost up to $20,000 to produce, making them inaccessible in low-resource areas including East Africa, where cervical cancer incidence is highest and the doctor-to-patient ratio is one of the lowest globally.

GWHT’s alternative “pocket colposcope” connects to a smart phone camera to store and transmit images of similar quality for a fraction of the cost.

Images can then be downloaded to a server for remote expert diagnosis.

More at gwht.pratt.duke.edu.

Faculty members in the Duke Global Health Institute (DGHI) are working in nearly 40 low- and middle-income countries to address health inequality. Among other projects, DGHI works closely with the Medical Education Partnership Initiative to strengthen medical education and support research projects in Moshi, Tanzania. DGHI also provides modern surgical equipment and training for neurosurgeons across Uganda. Altogether, 84 DGHI faculty members conduct research on topics ranging from digital health to malaria to air pollution.

With partnerships in nine countries, the Hubert Yeargan Center for Global Health, located in DGHI, trains Duke fellows in global healthcare and supports research programs to minimize the burden of global diseases, including HIV/AIDS and malaria. This year, trainees are working to address pediatric cardiology needs in India and Thailand, cardiac rehabilitation in Kenya and fetal distress in Tanzania.

The Duke Cookstove Initiative is a cross-campus collaboration to bring electric and biomass-burning stoves to households dependent on traditional cookstoves to heat their homes and cook their meals. The team has provided improved cookstoves to more than 500 families to cut down on household air pollution and improve lung health.
A team of researchers and software developers at the **Duke Medical Center** has developed a free mobile app to learn more about autism in young children. The team plans to create a Spanish language version of the app in partnership with colleagues in Argentina.

Students in Duke’s **nursing and nurse practitioner programs** provide hands-on care to patients at clinics in Africa, the Caribbean and Central America.

**Innovations in Healthcare** has supported innovators from more than 50 countries working to expand access to affordable, quality healthcare. This work includes providing health kiosks in rural communities in Kenya and low-cost medical equipment for intensive care units in low-resource hospitals in Southeast Asia.

**Duke Medicine Global** promotes the rapid translation of breakthrough medical discoveries around the world and educates current and future leaders in healthcare, science and research.

Although focused primarily on the United States, the **Duke-Margolis Center for Health Policy** collaborates with several global partners to support patient-centered healthcare policy. This work includes chairing the bi-annual Accountable Care Forum in Qatar.

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In 2016, Duke Children’s Hospital received a national designation for its surgical program, one of only five such centers to receive this recognition.

The Duke Global Health Institute participated in the Stop Malaria movement in Uganda. Here, a child receives free malaria testing to assist in early detection.

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Human Rights &
Global Cooperation

The Kenan Institute for Ethics’ Human Rights Center explores contemporary human rights challenges, with a focus on global migration. Students and faculty partner on research, education and outreach to examine the legal and moral issues that result from displacement and migration. Their work aims to shape debates about immigration and citizenship policy around the world.

The Duke-UNC Rotary Peace Center selects and trains future leaders in conflict resolution and international cooperation.

The human rights program at Duke Law provides an integrated approach to human rights education, advocacy and scholarship. Participants in Duke’s International Human Rights Clinic traveled to Jordan in 2014 to help finalize the U.N. principles for governments to provide redress for human trafficking victims.

Duke’s Human Rights Center within the Franklin Humanities Institute promotes understanding about global human rights issues, including gender, race, ethnicity, sexuality, religion, income inequality and environmental justice. The center has been home to many human rights scholars and activists, including an activist who was appointed by Nelson Mandela to work on reconciliation issues in South Africa.

**PROMOTING PEACE**

The Duke Divinity School’s Center for Reconciliation has mobilized Christian leaders in the African Great Lakes region and in Northeast Asia to promote reconciliation in communities experiencing political, ethnic and religious conflict.

The center supports a number of programs involving worship, relationship-building activities and counseling, and hosts seminars aimed at promoting peace, resolving justice dilemmas, illuminating the historical roots of current reconciliation challenges and developing intercultural support networks.

“If you can really believe that seven billion people on the planet are equal to you in spirit, then you’ll take action to make the world more equal for everyone.”

— Melinda Gates
Trinity ’86, MBA ’87

PhD student Lydia Greene captures a young girl carrying rice through Madagascar, where climate change and deforestation are threatening food security.

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Social Entrepreneurship & Development

- The **Duke Center for International Development** in the Sanford School of Public Policy has been actively engaged in policy reform in more than 40 countries. Its projects include analyses of school nutrition in Ecuador, pollution reduction in Thailand, and land and housing access in Honduras.

- The **Center on Globalization, Governance and Competitiveness** addresses economic and social development issues, including environmental sustainability and inclusive workforce development, for international governments, foundations and organizations.

- Faculty members from the **Pratt School of Engineering** have worked with partners to “reinvent the toilet” in areas where bathroom access is limited. Their new sanitation system has been installed in Ahmedabad, India.

- Duke’s **Innovation and Entrepreneurship Initiative** has supported the Duke community in developing innovative solutions to some of the world’s most pressing problems. Suhani Jalota (‘16) founded the Myna Mahila Foundation, which strives to improve women’s health and provide employment opportunities by bringing women together to produce low-cost sanitary products in Mumbai.

- **Duke Corporate Education** (Duke CE) provides customized leadership solutions to organizations in 75 countries. With six offices worldwide, Duke CE supports business solutions for team-based learning, strategy, design, and diversity and inclusion, among other needs.

- **Duke-Grown Innovations**

  Duke students and alumni have established dozens of humanitarian organizations around the world focused on addressing social issues.

  To name a few, **CriticalLink** helps first responders reach natural disaster and accident victims in Bangladesh, **Dream Corps** provides educational resources to underserved children in rural China, **Coach for College** promotes higher education for middle school kids in Vietnam, and **Project Sapana** provides school lunches and community gardens to children and educators in Nepal.

  Suhani Jalota, Myna Mahila Foundation
The **Duke-National University of Singapore Medical School** (Duke-NUS), a collaboration between Duke and the National University of Singapore, offers a U.S.-style graduate medical degree program to increase the number of practicing doctors in Singapore and to support the country’s Biomedical Sciences Initiative. The school’s curriculum is patterned after that of Duke University’s top-ranking School of Medicine.

The **Duke Talent Identification Program** (TIP) serves academically gifted elementary, middle and high school students in the United States and abroad, providing a summer studies program for intellectually advanced students in China, as well as field study programs in Costa Rica, Germany, the Netherlands and other locations around the world. Studies have shown that participation in Duke TIP increases future academic achievement and correlates with students’ ambitions to pursue postgraduate degrees.

The **Duke Kunshan University** blends Chinese and American traditions of higher education in Kunshan, China. The university offers master’s programs and will soon offer an undergraduate liberal arts degree program for students from China and throughout the world, with the goal of fostering an international learning environment.

Faculty from both Duke and Duke Kunshan University teach on campus, taking a liberal arts approach to a wide range of subjects.

The university is also home to research centers dedicated to addressing health needs in China, including chronic disease, environmental health and health policy.

Duke alumni founded Dream Corps to build primary school libraries in classrooms like this one in rural China.
More than two million individuals from virtually every country in the world have signed up for **massive open-access online courses** (MOOCs) taught by Duke faculty. New partnerships at home and abroad create opportunities for individuals to learn from Duke and advance their knowledge and careers.

The Fuqua School of Business is also engaged in education around the world, offering distance learning and location-based study in five countries each year through the **Cross Continent MBA** program. Its **Global Executive MBA** program also educates future leaders in global business.

Duke is among a select group of institutions that participated in the inaugural year of the **MasterCard Foundation Scholars Program**, which provides university tuition to students from Sub-Saharan Africa and other developing areas. With a financial commitment of $13.5 million from the MasterCard Foundation, Duke has committed to educating seven classes of five students for a total of 35 students over a 10-year period.

“**Duke MOOCs represent a major shift in human history, leading humankind to live better than ever before and preparing people to confront new global challenges.**”

— Duke MOOC student, 2014

Above: MOOC enrollment by world region

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— Duke MOOC student, 2014
3,600 Duke students have volunteered more than one million hours through DukeEngage, serving more than 600 community organizations in 76 countries. The Rubenstein-Bing Student-Athlete Civic Engagement Program offers athletes at Duke and Stanford University similar opportunities for civic engagement abroad. Service themes range from environmental policy and conservation to social justice and youth empowerment.

- More than 80% of alumni report that DukeEngage had at least some impact on their current volunteer work, philanthropy or civic engagement.
- 78% of community partners found their DukeEngage student had a great impact on the community.
- More than 50% of DukeEngage participants report that they plan to increase their level of community involvement after completing their programs.

“\(\text{This is Duke University, and here we’ve been pushed to develop a creative vision for how to improve the world around us. We can imagine how our communities, our countries, our world might be more peaceful, more just, more equitable, more beautiful.}\) ”

– Andrew Kragie (‘16)

- **Duke Engineers for International Development (DEID)** is a student organization that combines community-driven ideas with student design. DEID has worked with community partners in Honduras, Uganda, Rwanda, Bolivia, Costa Rica and other countries around the world to build water filtration and rainwater collection systems, bridges, health clinics and classrooms to address community needs.

- In collaboration with community partners, students in the Duke Global Health Institute’s Student Research Training Program are working in Haiti, Honduras, India, Kenya, Uganda and the U.S. to address child health, chronic disease, mental health and family planning challenges.

- **Bass Connections** brings together faculty and students into more than 40 research teams, many of which focus on global issues including environmental epidemiology in Latin America, community care of elders in cross-cultural settings, and air pollution and its affects on human health and biodiversity in Madagascar.

- In 2015-16, more than 1,000 students enrolled in 66 Duke Service Learning courses, volunteering 22,000+ hours.
Duke in the World

**NORTH AMERICA**
- 14 civic engagement programs
- 317 students from Canada and Mexico on campus at Duke
- 260 scholars with expertise related to North America
- 212 faculty research projects
- 33 incoming and outgoing Fulbright scholars

**EUROPE**
- 40 partnerships
- 19 study abroad programs
- 2,600 Duke alumni in Europe
- 207 incoming and outgoing Fulbright scholars
- 191 faculty research projects in or related to 34 European countries
- 700 European students on campus at Duke

**ASIA**
- Joint campuses in Singapore and China
- 2,200 students on campus at Duke
- 47 partnerships
- 270 research projects related to Asia
- 406 students have studied abroad in Asia since 2003

**LATIN AMERICA AND THE CARIBBEAN**
- 383 students on campus at Duke
- 12 international study opportunities
- 19 partnerships
- 1,170 alumni in Latin America and the Caribbean
- 100 incoming and outgoing Fulbright scholars

**AFRICA**
- 20 partnerships
- 304 alumni living in Africa
- 470 Duke students have studied abroad in Africa since 2003
- 298 faculty members conducting research in or related to Africa
- 65 incoming and outgoing Fulbright scholars

**AUSTRALIA AND OCEANIA**
- 31 research projects in or related to Australia and Oceania
- 293 alumni living in the region
- 93 students on campus at Duke
- 6 student exchange partnerships
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