

UNIVERSITY *of* WASHINGTON

# DEPARTMENT OF GLOBAL HEALTH



Our mission is to improve health for all through research, education, training, and service; understand and address the causes of disease and health inequities at multiple levels; and collaborate with partners to develop and sustain locally-led, quality health systems, programs and policies.

SCHOOL OF MEDICINE

SCHOOL OF PUBLIC HEALTH

[www.globalhealth.washington.edu](http://www.globalhealth.washington.edu)

CELEBRATING



## ABOUT US

The Department of Global Health (DGH) at the University of Washington was established in 2007 through a generous gift and endowment from the Bill & Melinda Gates Foundation and complementary Washington state resources. DGH bridges the schools of Medicine and Public Health with a mandate to harness the expertise and interdisciplinary power of all UW schools and colleges.

Driven by tremendous interest among both students and faculty, the Department has grown quickly. In the decade since our inception, DGH has graduated almost 300 master's and doctoral students, with approximately 500 students completing certificate or fellowship programs and 364 undergraduates finishing the Global Health Minor. Approximately 1,000 other students take global health courses each year.

Today, we are the second largest department at the University in terms of funding for research and training programs, and include 27 centers, programs, and initiatives. Our faculty, including those at the Institute of Health Metrics and Evaluation (IHME), prepare students to work in cutting edge fields such as implementation science and health metrics science.

We have more than 390 faculty representing 15 of 16 UW schools and colleges and 41 departments — a true campus-wide collaboration to improve lives for people around the world, including those who are underserved in the United States. Please consider joining our community.



*Judith N. Wasserheit*

JUDITH WASSERHEIT, MD, MPH  
WILLIAM H. FOEGLE CHAIR  
DEPARTMENT OF GLOBAL HEALTH  
UNIVERSITY OF WASHINGTON

### CURRENT AND EMERGING FOCUS AREAS:

- Global Environmental Change
- Health Economics
- Health Metrics and Evaluation
- Health System Strengthening
- Infectious and Non-Infectious Diseases
- Injury and Violence Prevention
- Implementation Science
- Laboratory Sciences
- Medicine Safety
- Mental Health
- Women's, Adolescent's & Children's Health

## GLOBAL HEALTH IN OUR REGION

The Department of Global Health is a founding member of the Washington Global Health Alliance (WGHA) together with the Fred Hutchinson Cancer Research Center, the Infectious Disease Research Institute, the Institute for Systems Biology, the Center for Infectious Disease Research (CIDR), PATH, Seattle Children's, the Washington Biotechnology and Biomedical Association, and Washington State University's Paul G. Allen School for Global Animal Health.

WGHA members, along with the Bill & Melinda Gates Foundation, have forged a powerhouse of collaboration, expertise, and innovation in global health. They provide unique opportunities for students, trainees, and faculty through events, mentoring, and job placement. CIDR, for example, has trained hundreds of UW students in infectious disease research, and faculty from PATH teach and mentor UW students.

## WHERE WE WORK

Our faculty and students work with colleagues on more than 662 projects in more than 129 countries. Countries where we have particularly strong collaborations include:

- Bangladesh
- China
- Ethiopia
- India
- Kenya
- Mozambique
- Nepal
- Nicaragua
- Peru
- South Africa
- Tanzania
- Uganda
- United States

Want to know more about our projects and where we are working?

[www.globalhealth.washington.edu/map](http://www.globalhealth.washington.edu/map)

*Photos from the cover: Top: Professor Steve Gloyd and Chair Judy Wasserheit with graduates. Photo credit: Jennifer Loomis. Bottom left: Mario Conejo, a Fogarty Global Health Fellow, in Peru. Bottom right: Alumna and nurse Karin Huster (left) with Syrian refugees in Lebanon.*



Pathobiology faculty Rhea Coler (PhD, '99) mentors a student at the Infectious Disease Research Institute, where she is Vice President of Preclinical Biology.  
PHOTO COURTESY OF IDRI.



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- 1 UW undergraduate students providing health talks to the villagers as part of the Vietnam Health Clinic (VHC).
- 2 Pathobiology PhD student Melanie Gaspar working in a lab in South Africa, made possible by the Department's Global Opportunities (GO) Health Fellowship. PHOTO CREDIT: SOL BOCKELIE.
- 3 MPH student Leo Ndiangang Achembong, a dentist, filling a cavity in a tooth at an elementary school in Cameroon.

## EDUCATION

The Department offers premier global health training programs where students gain a deep understanding of the social, economic, political and biological determinants of health, and global and local approaches to improve health at scale. DGH brings together one of the strongest constellations of health sciences in the nation, with all major health disciplines represented, and all six schools (Medicine, Public Health, Nursing, Pharmacy, Dentistry, Social Work) ranked among the top 10 in the country. Collaborations with outstanding programs from UW's ten other schools and colleges in fields such as business, engineering, environmental sciences, and law create a growing array of interdisciplinary education programs.

### DOCTOR OF PHILOSOPHY (PHD)

- **GLOBAL HEALTH METRICS & IMPLEMENTATION SCIENCE** — An interdisciplinary program that applies quantitative methods, population health measurement, impact evaluations, and implementation science methods to accelerate progress in global health. This PhD program was the first of its kind in the world.
- **PATHOBIOLOGY** — A multidisciplinary approach to basic science research and the latest laboratory research technologies to the study of global health.

### MASTER OF PUBLIC HEALTH (MPH)

- **GENERAL TRACK** — For students with substantial global health or other health-related experience in disadvantaged communities.
- **HEALTH METRICS AND EVALUATION TRACK** — For recent college graduates with demonstrated quantitative skills.
- **LEADERSHIP, POLICY, AND MANAGEMENT TRACK** — For mid-career professionals seeking training to be leaders, managers, and policy advocates.
- **CONCURRENT DEGREES** — For students interested in combining a MPH with graduate studies in medicine, nursing, anthropology, law, public affairs, and other fields.



## GRADUATE CERTIFICATE PROGRAMS

For UW graduate and professional students who want to explore various aspects of global health in a program that compliments their primary degree program.

- **GLOBAL HEALTH**
- **GLOBAL HEALTH OF WOMEN, ADOLESCENTS, AND CHILDREN (GLOBAL WACH)**
- **GLOBAL INJURY AND VIOLENCE PREVENTION**
- **HIV AND SEXUALLY TRANSMITTED INFECTIONS**

## FELLOWSHIPS IN HEALTH METRICS & EVALUATION

- **POST-BACHELOR FELLOWSHIP PROGRAM** — For recent college graduates with strong quantitative skills to train with faculty and senior researchers in health metrics and evaluation.
- **POST-DOCTORAL FELLOWSHIP PROGRAM** — An intensive, individualized program for talented researchers; they can leverage their expertise and help advance the field of health metrics and evaluation.

## MEDICAL STUDENT PATHWAY

Provides the framework for medical students pursuing careers in research or clinical practice with underserved communities, either domestically or internationally.

## CERTIFICATE AND PROGRAM FOR RESIDENTS & FELLOWS

For all residents and fellows in training at UW, this cross-cutting and interdisciplinary certificate provides participants with opportunities to participate in global health activities at the UW and internationally. The Global Health Residents and Fellows Program provides information about individual department pathways and contacts, international clinical training and funding opportunities, events at UW, and more.

## UNDERGRADUATE MINOR

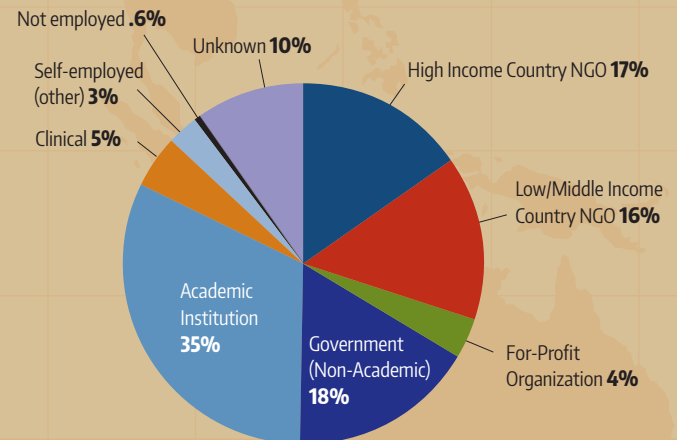
For undergraduates in any major, the Global Health minor provides students with opportunities to examine global health issues. Typically, students come from more than 25 different majors from a variety of disciplines including biological sciences, anthropology, and law.

## ALUMNI

The University of Washington Department of Global Health is widely recognized for its internationally renowned alumni. The Department incorporates existing UW training programs in international health including the Pathobiology program (established in 1959), and the Master of Public Health International Health Program (established in 1987).

The alumni of these programs, together with our recent alumni, now total more than 1200 MPH, MD, and PhD graduates working around the world. An impressive 97% of 2013 graduates reported being employed in 2013, and our alumni work across sectors in 25 different countries.

### ALUMNI EMPLOYMENT SECTOR



Data collected in 2013 and 2014 from MPH and PhD alumni. N= 169

*"The Department of Global Health does a superb job of creating opportunities for our students, residents, and trainees to learn and contribute to improving health in diverse settings worldwide."*

**PAUL G. RAMSEY, MD**

CEO, UW MEDICINE, EXECUTIVE VICE PRESIDENT FOR MEDICAL AFFAIRS  
AND DEAN OF THE UW SCHOOL OF MEDICINE



- 1 UW interns and residents in Kenya with the Clinical Education Partnership Initiative clinical rotation. PHOTO CREDIT: JILL SCHONDEBARE.
- 2 Damarys Espinoza, an anthropology PhD student, used her Thomas Francis Fellowship to research indigenous women's experiences with domestic violence in Peru.
- 3 A man navigates a river in Bangladesh, a country severely affected by global environmental change. PHOTO CREDIT: ASSOC. PROF. JUDD WALSON.

*"Economic transformation, population shifts, environmental changes, and technology revolutions transcend national boundaries, and are the seismic forces shaping health."*

**JUDITH WASSERHEIT, MD, MPH**  
CHAIR, DEPARTMENT OF GLOBAL HEALTH

## OUR WORK

The University of Washington was the top public university in federal research funding every year 1974-2009, and has been in the top two since 2009. In the Department of Global Health, there are 27 centers, programs, and initiatives conducting interdisciplinary research and training.

### GLOBAL ENVIRONMENTAL CHANGE

**Center for Health And the Global Environment (CHANGE)** facilitates interdisciplinary collaborations across UW's schools and colleges to promote systems-based approaches to help communities prepare for, cope with, and adapt to a changing climate. Led by Kristie Ebi, PhD.

### HEALTH ECONOMICS

The **Disease Control Priorities Network (DCPN)** promotes evidence-based priority setting to inform policy and improve resource allocations for health in low-and-middle-income-countries, through the publication of Disease Control Priorities, 3rd Edition, and direct engagement with policymakers, health professionals, academic organizations, and researchers. Led by Rachel Nugent, PhD, and Dean Jamison, PhD.

**Health Economic Impact Studies for Translation (HEIST)** facilitates the integration of health economics into global health research and implementation with the overall goal of building efficient programs that maximize health benefits. Led by Joseph Babigumira, MBChB, PhD, Ruanne Barnabas, MBChB, DPhil, and Carol Levin, PhD.

### HEALTH METRICS AND EVALUATION

The Department of Global Health partners with the **Institute for Health Metrics and Evaluation (IHME)** for the MPH Metrics and Evaluation track, and the PhD in Global Health: Metrics and Implementation Science programs. IHME is dedicated to improving health for everyone worldwide by improving health evidence. IHME provides rigorous and comparable measurement of the world's most important health problems and evaluates the strategies used to address them. Led by Christopher J.L. Murray, MD, DPhil.



An expectant mother receives texts from a midwife during her pregnancy through Health Alliance International's Mobile Moms project in Timor-Leste. PHOTO CREDIT: CATALPA INTERNATIONAL.



The Training System Monitoring and Reporting Tool (TrainSMART) is a web-based database software package created by I-TECH. With 250,000 unique participants, the tool gathers information on the training of new health care workers. PHOTO COURTESY OF TOM FURTWANGLER/I-TECH.

## HEALTH SYSTEM STRENGTHENING

**Health Alliance International (HAI)** is a UW-affiliated, non-governmental organization that partners with ministries of health to strengthen government primary health care and foster social, economic, and health equity for all. HAI consists of over 150 field staff in Mozambique, Timor-Leste, and Côte d'Ivoire, and 22 staff at headquarters in Seattle, including seven UW DGH faculty. Led by James Pfeiffer, MPH, PhD.

The **International Training and Education Center for Health (I-TECH)** is a collaboration between the University of Washington and the University of California, San Francisco. The two universities work in partnership with local ministries of health, universities, NGOs, medical facilities, and other organizations in more than 30 countries to support the development of a skilled health care workforce and well-organized national health delivery systems. Led by Ann Downer, MS, EdD, at UW, and Michael Reyes, MD, MPH, at UCSF.

## IMPLEMENTATION SCIENCE

The Department of Global Health is a leader in implementation science and its **Implementation Science Program** involves a growing array of research and educational activities that span across the Department's centers, programs and initiatives (notably the Center for AIDS Research Implementation Scientific Working group, HAI, I-TECH, and the Kenya Research Program). Led by Kenneth Sherr, PhD, MPH.

## INJURY AND VIOLENCE

**Global Injury and Violence Prevention Initiative** works to increase capacity for injury control research, training, and interventions globally. Led by Charles Mock, MD, PhD.

## INFECTIOUS DISEASES

The **UW/Fred Hutch Center for AIDS Research (CFAR)** advances the prevention, detection, and treatment of HIV infection and AIDS by fostering collaborative and interdisciplinary research, supporting career development in early-stage investigators, and providing cutting-edge core support to researchers and scientists at our affiliated institutions. Include more than 550 UW and affiliated faculty, research scientists, and predoctoral and postdoctoral students. Led by Jared Baeten, MD, PhD.

The **International Clinical Research Center (ICRC)** conducts a wide range of intervention-based and observational studies in collaboration with 100+ collaborators across multiple U.S. and international institutions. Co-led by Connie Celum, MD, MPH, and Jared Baeten, MD, PhD, with a biorepository of over 2.5 million specimens, directed by Jairam R. Lingappa, MD, PhD.

**Strengthening Care Opportunities through Partnership in Ethiopia (SCOPE)** improves the lives of people living with HIV/AIDS and prevents new infections through partnership with medical and faith communities dedicated to outreach, education, and training. Led by Microsoft alumna Nancy Andrews in partnership with Judd Walson MD, MPH.

## MEDICINE SAFETY

The **Global Medicines Program** works to improve the access, use, safety, quality, cost-effectiveness, and affordability of medicines in low and middle-income countries. Led by Andreas Stergachis, PhD, RPh, and Lou Garrison, PhD.

## MENTAL HEALTH

The **Program on Global Mental Health** is a regional, interdisciplinary forum for research, training, and service-related activities to address gaps in the implementation of effective global mental health interventions. Led by Deepa Rao, PhD, Jurgen Unützer, MD, MPH, and Jane Simoni, PhD.





A pregnant woman in Bangladesh has a general checkup. Bangladesh is one of 162 countries in which IHME's Global Burden of Disease study found a decrease in maternal mortality.

PHOTO CREDIT: DEPT. OF FOREIGN AFFAIRS AND TRADE.



Global Health student Xiaochen Dai in Mozambique. Dai is working toward his PhD in Health Metrics and Implementation Science with funding from the China Medical Board.

## WOMEN'S, ADOLESCENT'S & CHILDREN'S HEALTH

**Global Center for Integrated Health of Women, Adolescents and Children (Global WACH)** is a joint effort among the UW departments of Global Health, Pediatrics, and Obstetrics & Gynecology. The center makes scientific discoveries, cultivates leaders, and bridges disciplines to advance the tightly connected health and well-being of women, adolescents, and children. Led by Grace John-Stewart, MD, MPH, PhD.

## TRAINING PROGRAMS

The **Afya Bora Fellowship in Global Health Leadership** works to fill an identified gap in training for African and U.S. health professionals. This innovative 12-month fellowship prepares African and U.S. health professionals to lead and manage major health programs in African countries. Led by Carey Farquhar, MD, MPH.

**Chinese Universities Global Health Partnership** is supported by the China Medical Board, and facilitates collaboration between the Department of Global Health and select Chinese universities to strengthen their capacity in global health. The UW offers a program of MPH and PhD training for students and individualized mentoring for faculty scholars, as well as opportunities to engage in collaborative research in low and middle income countries for participating faculty and students. Led by Judith Wasserheit, MD, MPH, and Stephen Gloyd, MD, MPH.

The **East Africa Diploma Course in Tropical Medicine** is an exciting, three-month training course on tropical medicine and global health for physicians and other qualified health professionals. It is the only course of its kind in East Africa, and represents a collaboration among five institutions with long-standing expertise in tropical medicine: Johns Hopkins University, Kilimanjaro Medical University, the London School of Hygiene and Tropical Medicine, Makerere University, and the University of Washington. Led by Paul Pottinger, MD, DTM&H, and Christopher Sanford, MD, MPH.

The **E-Learning Program (eDGH)** develops, implements, and assesses e-learning programs for Department of Global Health courses, as well as grant-funded projects developing health care workforce and institutional capacity. Led by Ann Downer, MS, EdD, and Michael Chung, MD, MPH.

**Fogarty Northern Pacific Global Health Fellows Program** is an 11-month clinical research training program in one of seven international collaborating countries (Kenya, Uganda, Cameroon, Ghana, Thailand, China, and Peru) for post-doctoral trainees and doctoral students in the health professions, sponsored by the Fogarty International Center in partnership with several National Institutes of Health institutes and centers. Led by Joseph Zunt, MD, MPH.

**International AIDS Training and Research Program (IARTP)** was established in 1988 and works with collaborative research institutions in Kenya to provide advanced training in HIV research, focusing on improving the HIV care cascade and promoting implementation science research. Led by Carey Farquhar, MD, MPH.

**KUSKAYA** is a joint interdisciplinary training program for innovation in global health between the Universidad Peruana Cayetano Heredia (Lima, Peru) and the University of Washington funded by the Fogarty International Center of the U.S. National Institutes of Health. Peruvian and U.S. trainees work in inter- and multidisciplinary teams in Peru to address communicable and non-communicable diseases, as well as health systems. Led by Joseph Zunt, MD, MPH, and Patricia Garcia, MD, MPH.

The **Partnership for Health Research Training in Kenya (PHERT)** trains junior faculty from the University of Nairobi, Kenyatta University and Maseno University in research skills, mentored research and mentored grant writing to build a pool of scientists able to address Kenya's health challenges in HIV/AIDS, Maternal Newborn and Child Health and Mental Health. Led by Carey Farquhar, MD, MPH.



Fog nets harvest water from the air in Lomas de Zapallal, a desert slum outside Lima, Peru. The nets are one piece of a larger community garden project that has won eight international design awards. The project involves faculty and students from the fields of global health, environmental and forest sciences, landscape architecture, civil engineering, and nursing. PHOTO CREDIT: SHARA FELD.

*"DGH's outstanding faculty, students and staff are harnessing the expertise of community, national and international leaders to improve population health, and to demonstrate the impact of public health advances. The department's research, rigorous training programs and commitment to service are forging the next generation of global health leaders."*

**JOEL KAUFMAN, MD, MPH**  
INTERIM DEAN OF THE UW SCHOOL OF PUBLIC HEALTH

**The Strategic Analysis, Research & Training (START) Center** uses an innovative mentorship model to provide high-quality analysis and research support to public health organizations while developing applied research and analytic skills of graduate research assistants in global and domestic public health. Led by Judd Walson, MD, MPH, and Ann Duerr, MD, PhD, MPH, and Stephen Hawes, PhD.

**Treatment, Research, and Expert Education (TREE)** is dedicated to addressing the health needs of people living in resource-limited settings through quality medical care, academic research, training, and education. Through local partnerships in Kenya, Vietnam, and around the globe, TREE offers a multi-faceted approach to medical service delivery and capacity building to help both community and health care workers sustain their support to the communities where they work. Led by Michael Chung, MD, MPH.

## COUNTRY- OR REGION-SPECIFIC PROGRAMS

**The Kenya Research Program** provides an academic forum to support both trainees and investigators in the planning, implementation, analysis, and presentation of research conducted in Kenya. Led by Carey Farquhar, MD, MPH, and Scott McClelland, MD, MPH.

**The Program for Education and Research in Latin America (PERLA)** encourages interdisciplinary research, training, and implementation activities, and provides a forum to bring faculty, students, and community members together to improve the health and well-being of people in Latin America and the Caribbean. Led by Joseph Zunt, MD, MPH.

## FUNDING FOR FIELDWORK

The Department provides a number of funding options to pursue fieldwork for graduate and professional students and medical residents. These provide funding for short-term international experiences that complement their coursework, and strengthen their pathway to a career in global health. Administered by the Global Health Resource Center (GHRC), applications are considered annually.

### GLOBAL HEALTH RESOURCE CENTER

The GHRC is the community hub for the DGH. It coordinates key events and conferences, and provides information and referral to the global health community regarding ongoing activities within the Department. The GHRC manages international fieldwork and clinical experiences for medical students, as well as funding fellowships to facilitate UW student fieldwork opportunities. Additionally, it develops career resources and networking opportunities for UW students and alumni. Led by Daren Wade, MSW.

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Stergachis Endowed Fellowship for International Exchange Fellow Julianne Meisner takes animal blood samples in Uganda, 2016





Community health worker, Esther Muthoni, discusses the importance of cervical cancer screening with members of Othaya Coffee Cooperative in Nyeri, Kenya.

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#### **DEPARTMENT LEADERSHIP:**

**Judith Wasserheit, MD, MPH** *William H. Foege Endowed Chair*

**Jared Baeten, MD, PhD** *Vice-Chair*

**Carey Farquhar, MD, MPH** *Associate Chair of Academic Programs*

**King Holmes, MD, PhD** *Director of Research and Faculty Development*

**Dana Panteleeff, MBA** *Director of Finance and Administration*



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UPDATED 3.17