

# THE ELSEVIER FOUNDATION

## Annual Report 2019





© Chao Mbogo

Dr. Chao Mbogo, Dean and computer science researcher at Kenya Methodist University, is one of 5 winners of the 2020 OWSD-Elsevier Foundation Award for Early-Career Women Scientists in the Developing World. She also founded KamiLimu, a mentorship program for undergraduate students that she runs in collaboration with professionals and peer mentors.

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President of the Elsevier Foundation

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### Sustainable Development Goals (SDGs)

We're committed to doing our part to advance these essential objectives for the world. Throughout this report look for the SDG icons to show which SDGs are relevant to the content.





The Elsevier Foundation Board members and team at the 2019 Board meeting in New York.

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Youngsuk “YS” Chi

**Chairman**

Elsevier

**Director of Corporate Affairs**

RELX

**President**

The Elsevier Foundation

“Inclusive health and research ecosystems are more critical today than ever before. We have a profound role to play in supporting partnerships which incubate new approaches, highlight inequities and catalyze change.”

## Foreword

As we all struggle to adapt to our rapidly changing world in the age of COVID 19, the Elsevier Foundation’s mission to advance inclusive health and research in service of the UN SDGs remains as relevant as ever. Over the past few years, we have worked hard to embed technology across many key partnerships and have seen this focus bear fruit as the world has gone into preventative pandemic measures. Girls Inc NYC, a new partner in 2019, serves a vulnerable urban population which has been particularly hard hit by the breakdown in social and financial safety nets. Within a week of New York City schools closing, they were able to deliver all of their programs, including PreG3: The Elsevier Data Analytics Preparatory Program, virtually and are working as quickly as possible to equip their girls with the necessary tablets, internet and technical skills.

### **Embedding Technology**

Our efforts to embed technology across many of our partnerships have been increasingly timely. This year,

our longstanding partner Amref, which provides health education in Africa, officially launched “Jibu” (the Swahili for “answer”), a continuing education app we have supported to offer efficient and cost-effective training for nurses in East Africa. We also supported the roll out of a Research4Life training MOOC in 2019 which serves as an integrated complement to our face-to-face training. The MOOC ensures that distance learning on how to use critical Research4Life resources can proceed despite the physical limitations that users and trainers are dealing with today.

### **Inclusive Health**

This year, we also doubled down on our inclusive health focus in the US, adding two new partnerships which tap technology to tackle issues faced by underserved communities. The Latino Diabetes Citizen Scientists Program will assist in the training of community health workers to gather critical data and use wearable tech to reduce health literacy barriers for adults suffering from Type 2 Diabetes, a disease disproportionately prevalent in the US Latino Community. With our support, the National League of Nursing (NLN) will be able to develop the “NLN/Elsevier HBCU Excellence in Technology Innovation”

program, which will provide e-learning modules that enable educators to better guide students through the transition to professional practice. Ultimately, the NLN aims to boost the numbers of successful nurse graduates from less represented backgrounds serving in US hospitals. Both of these programs exemplify how the Elsevier Foundation can make a difference with funds and access to health expertise, content and networks.

### **Inclusive Research**

Nor have we neglected our inclusive research focus to increase access to science, health and tech education for women, youth and researchers from developing countries. Our ISC<sub>3</sub> Green & Sustainable Chemistry Challenge and OWSD-Elsevier Foundation Awards for Early Career Women Scientists in Developing Countries have highlighted rising stars and role models in 2019 and 2020. By providing crucial recognition, we have sought to not only open doors for the winners but also for those following in their footsteps. In the words of the 2020 OWSD Kenyan award winner, computer scientist, Dr. Chao Mbogo, “This Award is a testament that designing technological tools that support learners is important and timely work, especially for students in developing countries who may not have much access to information or opportunities. This award has acted as a strong reminder to me to never stop holding the ladder up for others.”

Inclusive research is also an area where Elsevier, the Foundation’s core funder and supporter, has made significant strides this year. In March, Elsevier CEO and Foundation Board member, Kumsal Bayazit, launched a new Inclusion and Diversity Advisory Board cochaired by Dr. Richard Horton, Editor-in-Chief of *The Lancet* and

supported by distinguished experts across a wide range of fields. The Elsevier Foundation has an opportunity to learn from the new board and identify partnerships that help work towards lasting solutions to promote inclusive research and measurable change.

As we gear up for the 5<sup>th</sup> Anniversary of the UN SDGs this year, it is critical that we continue to pose the difficult question of whether the Elsevier Foundation is doing enough to support impactful programs in the most thoughtful and effective way. Since 2016, we have committed to many 3 year partnering cycles which offer time for partnerships to mature, develop and deliver. However, we have also learned that this approach ties down our funding and limits our ability to respond rapidly and effectively when the need arises. Clearly, we must embrace the challenge to find viable ways to support our ambitious programs while ensuring optimum flexibility in a rapidly changing world. We look forward to exploring these issues with our distinguished advisors and Board members.

20<sup>th</sup> April, 2020

*The Elsevier Foundation Board Meeting*

Youngsuk “YS” Chi

President, The Elsevier Foundation



**Ylann Schemm**

**Director**

The Elsevier Foundation

“We always look for that sweet spot with partners, wherever possible matching our funds with shared expertise, content, solutions and networks.”

## Who we are

### WHAT WE DO

The Elsevier Foundation is a corporate not-for-profit 501(c)(3), funded by Elsevier, a global information analytics business specialized in science and health. Since 2006, the Elsevier Foundation provides over \$1 million USD a year in grants to knowledge-centered institutions around the world, which address the UN Sustainable Development Goals through tech-enabled innovations in health information, diversity in science and health, research in developing countries.

The Elsevier Foundation also offers a comprehensive matching gift and volunteering fund to enable employees to work with Foundation partners and support their communities.

### HOW WE WORK

The Elsevier Foundation is governed by its Board which is comprised of 5 external and 5-6 internal or ex officio members representing Elsevier, the company and funding partner. Members serve 3 year renewable terms. Our Elsevier Foundation Board members hold a broad range of expertise and interest in corporate philanthropy across issues such as sustainability, development, innovation, diversity, education, research capacity building, and global health.

The Elsevier Foundation Board meets annually to provide strategic guidance of the Foundation's programming and governance.



# The Elsevier Foundation Board

The Elsevier Foundation is governed by a Board of 5 external and 5-6 Ex-Officio members. External Board members serve 3-year renewable terms and represent a broad range of expertise in sustainability, development, innovation, diversity, education, research and global health. Ex Officio members are leaders within Elsevier and RELX who are deeply supportive of the Foundation's mission. The President of the Board, YoungSuk 'YS' Chi, presides over the annual meeting which provides strategic guidance on program priorities, new partnerships, emerging issues and best practices as well as sound ethical, financial and legal governance.



**Yuko Harayama**  
**Former Executive Member**  
Council for Science and  
Technology Policy  
Cabinet Office of Japan



**Nikunj Jinsi**  
**Global Head**  
International Finance Corporation  
Venture Capital group



**Beverly Malone**  
**CEO**  
National League for Nursing



**Emilie Marcus**  
**Executive Strategy Officer**  
David Geffen School of  
Medicine  
UCLA



**Geraldine Richmond**  
**Presidential Chair in Science**  
Professor of Chemistry  
University of Oregon

## Ex-Officio



**Suzanne BeDell**  
**Managing Director**  
Education, Reference and Continuity  
Elsevier



**Márcia Balisciano**  
**Director**  
Corporate Responsibility  
RELX



**Kumsal Bayazit**  
**CEO**  
Elsevier



**Youngsuk "YS" Chi**  
**Chairman**, Elsevier  
**Director of Corporate Affairs**  
RELX  
**President**  
The Elsevier Foundation



**John Danaher**  
**President**  
Clinical Solutions  
Elsevier



**Esra Erkal**  
**Executive Vice President**  
Global Communications  
Elsevier

# The Elsevier Foundation Team

On a day to day basis, the Elsevier Foundation is run by a small core team consisting of a director, program officer and a specially appointed treasurer and legal counsel. In addition to annual programmatic funding, Elsevier offers funding to cover the administrative costs of running the Foundation and in-kind support through office space, marketing and media outreach, and volunteer support as needed from throughout the company.



**Yann Schemm**  
**Director**  
The Elsevier Foundation  
Elsevier



**Domiziana Francescon**  
**Program Officer**  
The Elsevier Foundation  
Elsevier



**Maria Markova**  
**Treasurer**  
Elsevier



**Kenneth R. Thomson II**  
**Legal Council**  
RELX

# Our Programs

Over the past few years, we have aligned our programs to key challenges in science, health and diversity identified by the UN Sustainable Development Goals. We have also recognized that technological solutions are increasingly playing a role in helping the world to tackle these. This has led us to evolve our approach into a tech-enabled, partnership-driven model allowing us to develop our knowledge and networks while facilitating closer, more sustained and impactful involvement in the work of these organizations.



## HEALTH & INNOVATION

Information technology can significantly advance the delivery of healthcare in developing countries, addressing problems such as the high risk of maternal death across Africa and HIV/AIDS prevention and treatment. We directly support organizations working to improve health outcomes in both the Global North and South through the innovative use of technology to disseminate health information.



## RESEARCH IN DEVELOPING COUNTRIES

Only 2% of sustainability science research output is produced by developing countries, even though they are often the hardest hit by climate change, food, energy and other scarcities. For many low-income countries, this so-called 'science poverty' limits the effectiveness and potential for science and innovation to be relevant to their needs. Our partnerships aim to widen access to academic knowledge and deepen the involvement of scientists in developing countries in SDG-driven research relevant to the issues they face.



## DIVERSITY IN STM

The future of science requires a robust and diverse workforce drawn from all corners of society. Encouraging scientific, technical and medical careers among young people with severely limited educational resources and few professional role models is a particular challenge. To address this, we have expanded our longstanding focus on advancing women in science to include partnerships helping under-served youth receive greater exposure to science and health education.



## MATCHING GIFT

To encourage generosity and community involvement, the Elsevier Foundation provides matching funds to charitable organizations that Elsevier employees personally support. We earmark \$200,000 to match individual and group donations to eligible non-profit organizations around the world, as well as global disaster relief efforts.



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## II. Our Partnerships

### REPORTS FROM 2019 PARTNERSHIPS

© Amref Health Africa





© BONNET Séverine/Epicentre-MSF

“We want to support MSF/Doctors without Borders’ mission to provide high-quality medical care to the most vulnerable populations. This work resonates well with the Elsevier Foundation’s focus on supporting the United Nations Sustainable Development Goals.”

YOUNGSUK “YS” CHI  
President  
The Elsevier Foundation



# Health & Innovation

Information technology can significantly advance the delivery of healthcare in developing countries, addressing problems such as the high risk of maternal death across Africa, epidemics and HIV/AIDS prevention and treatment. “Health & Innovation” directly supports organizations working to improve health outcomes in both the North and South through the innovative use of health information. We work in close partnership with the organizations which each address this in their own way.



## Doctors without Borders/Epicentre

Doctors Without Borders/Médecins Sans Frontières (MSF) is a leading international organization delivering emergency medical aid to people affected by conflict, epidemics, disasters, or exclusion from health care. The Elsevier Foundation is collaborating with Epicentre, MSF’s research and training partner, to support their Niger Research Center, with the goal of building field-based research capacity to deliver better medical care worldwide.

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## Amref Health Africa - Innovate for Life

Supporting African entrepreneurs to develop home-grown innovations for health: this is the goal of Innovate for Life, an initiative launched by Amref Flying Doctors. The Elsevier Foundation is proud to support Amref’s goal to help early-stage entrepreneurs developing novel technological solutions. The Fund aims to bridge the gap between African entrepreneurs and international investors by offering deep subject matter knowledge, strong networks and access to funding.

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## Amref Health Africa - JIBU

Amref Health Africa is the largest African driven NGO committed to improving health and health care in Africa. AMREF Health Africa’s JIBU program is scaling their mobile nursing education pilot into a comprehensive program to provide targeted mLearning or mobile nursing education in Eastern Africa.

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## Latino Diabetes Citizen Scientists

In 2020, the Elsevier Foundation will support the Sansum Diabetes Research Institute with the Latino Diabetes Citizen Scientists program. It aims to create the first Hispanic/ Latino Citizen Scientists trained in wearable tech and clinical research - reducing health literacy barriers amongst Latino adults with or at risk of type 2 diabetes. This is a pilot grant, renewable in years 2 and 3.

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## NLN/Elsevier HBCU Excellence in Technology Innovation

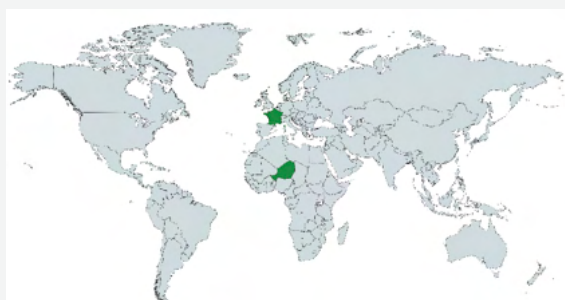
In 2020, we started supporting the Coaching for Excellence in Nursing course, a National league for Nursing online coaching course targeting nurse educators and preceptors. The different modules of the course will allow both parties to understand the challenges faced by nursing students and novice nurses, as well as help them with the transition from theory to practice. This is a pilot grant, renewable in years 2 and 3.





## EPICENTRE NIGER

In Niger, infectious diseases and child malnutrition are the principle causes of mortality. In 2009, Epicentre, MSF's research and training arm, established its third research center in Niger to develop a viable West African hub to develop implementable solutions to clinical and public health problems. Since then, the Niger Research Center has developed a strong research portfolio and built capacity to investigate epidemics, implement alerting and monitoring systems, conduct clinical trials and prevalence surveys while working with Niger's Ministry of Health and evaluating impact. However, Niger and the Sahel, remain one of the least developed regions in the world with poor academic, research and health infrastructure. Our partnership supports the training of Epicentre's African staff with the goal of eventually running the Center autonomously. Key scientific staff such as field investigators, laboratory technicians, epidemiologists and clinical statisticians have received advanced individual and institutional training in technical areas and have been able to present at Epicentre's Scientific and Medical Days in Paris and Niger, travel for courses and conferences, build their international networks and take up other training assignments in MSF programs and African research centers.



### Beneficiary group

Directly: Epicentre staff in Niger.

Indirectly: participants and communities in Epicentre research studies, as well as policy makers in the region.

### Budget

\$100,000

### Location

Niger (Niamey and Maradi)

### Primary outcome

The partnership focuses on building the capacity of Epicentre Niger's medical and scientific staff, reinforcing Epicentre's ties to the provincial authorities to guarantee optimum rapid response to health crises.

### Goals

- Provide opportunities outside of Niger for medical and scientific staff at the Center to receive additional training to further their careers.
- Encourage medical and scientific staff from Niger and surrounding countries to be mentored and mentor others to sustain a vibrant research culture.
- Provide opportunities for staff to promote Epicentre's visibility and encourage discussion on pressing medical research issues in Africa.
- Improve the quality of clinical studies in the long term.

### Milestones

- The benefits of support for Epicentre Niger have been transformative. Key scientific staff has been able to travel for trainings, connect with international scientists and expand their skill sets.
- The Epicentre Medical Day in Niamey, 21 January 2020: researchers, public health experts and government officials were brought together discuss best practices in dealing with meningitis, malaria and malnutrition for Niger and the Sahel region.
- 7 medical and scientific staff members have participated in the response to the Ebola outbreak in DRC - participating in seminars, trainings and the development of a novel vaccine trial for Ebola in Zaire.
- Participation in international seminars and trainings, as well as conferences in Niger.

### Level of evidence

Level 1	Quasi-experimental
Level 2	Pre-post or cross-sectional
Level 3	Point-in-time study
Level 4	Performance metrics/stats
Level 5	Anecdotal evidence

*The measurement of Epicentre Niger's capacity-building and professional development activities is also complemented by statistics on staff retention and rates of project volunteering.*

### Future plans

- Support the participation and development of seminars in Niger.
- Host SONIMI, the Nigerien internal medicine seminar for staff to present their work and opportunities for knowledge sharing from Epicentre and Elsevier.
- Participation of staff in the Women Leaders in Global Health conference in Kigali.
- Development and convening of a scientific day in Conakry, Guinea.



Above: Epicentre staff at the Maradi Research Center, Niger.



Left: From left to right: Yvonne Mburu (Founder of Nexakili and co-founder of the French-African Foundation), Yap Boum (Regional Representative of Epicentre Africa), John McConnell (Editor-in-chief of *The Lancet Infectious Diseases*) and Ylann Schemm (Director of the Elsevier Foundation) in Niger while attending the Epicentre Medical Day in January 2020.

“The support from the Elsevier Foundation has been instrumental: from trainings to opportunities to attend and present at conferences, to access to journals and latest research. ”

— ROCKYIATH MAKARIMI, Head, Monitoring Department, Epicentre Niger.

### Challenges

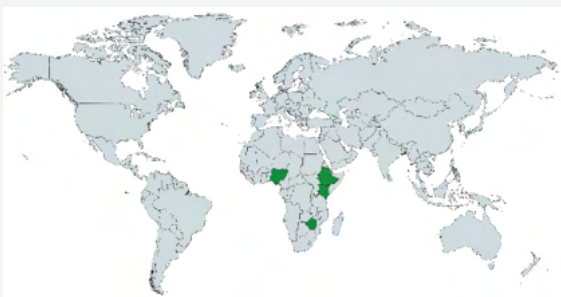
Given the ongoing instability in the country and region, the most pressing challenge for staff remains security. In order to provide consistent and adequate support, long distance communication capacity has become increasingly important. MSF/Epicentre’s response to the Ebola outbreak in DRC provided an important opportunity for clinical trials training, but also delayed many plans for staff to undertake formal continuing education.



## INNOVATE FOR LIFE

An increasing number of African countries combine young populations with political stability, economic growth and robust internet infrastructure—ideal conditions for creating new markets and piquing investor interest. But the challenges for health entrepreneurs include highly regulated healthcare systems, ongoing health challenges, burgeoning populations and investor biases towards energy and agriculture. Innovative for Life (I4L), Amref Health Africa’s health tech accelerator targets this gap by bringing 60 years of healthcare knowledge and deep local and international networks offering dedicated support to entrepreneurs to accelerate Africa’s progress.

I4L was launched in May 2017 and focuses on the “missing middle”: enterprises too large for microcredit, but too small for traditional commercial investors. They combine knowledge-sharing and in-person mentorship with expertise, networks, access to funding and business coaching from an experienced fund management organization. In 2019, after a 2-cohort cycle, they redesigned I4L with help from Accenture Development Partnerships and Metta, a Kenyan entrepreneur community, to focus on creating strong strategic partnerships between the entrepreneurs and Amref country platforms, and moving to demand-driven innovations within designated Amref countries.



### Beneficiary group

Top 6 in 2018-19: 2 female and 4 male entrepreneurs

### Location

The 2018-2019 cohort: Nigeria, Zimbabwe, Kenya  
The 2020 cohort: focus on Kenya and Ethiopia.

### Budget

\$50,000

### Primary outcome

Creating shared-value partnerships between global innovators and Amref programs through a demand-driven innovation program that accelerates promising health solutions for the African market.

### Goals

- *For health innovators:* Improved regional and technical soundness, improved capacity to scale in Sub-Saharan Africa (SSA), strengthened strategic partnerships, expansion of health enterprises in SSA
- *For Amref:* Increased innovation capacity, strengthened in SSA, increased access to funding for programs, improved efficacy of programs

### Milestones

35 applications received

- Final intensive week held in March in Rwanda, in combination with Amref’s Health Agenda International Conference (AHAIC)
- Main round of selection by a business panel from Amref Enterprises, Grassroots Business Fund, Accenture, The Dutch Development Bank FMO, Flint Atlantic etc.

### Level of evidence

Level 1	Quasi-experimental
Level 2	Pre-post or cross-sectional
Level 3	Point-in-time study
Level 4	Performance metrics/stats
Level 5	Anecdotal evidence

*The impact measured includes the innovator’s level of business readiness for a partnership, the strength of leadership skills for impact and social change, and strength of business and presentation skills. Other indicators include the level of alignment between a health problem and a health solution, the number of MoUs signed between innovators and Amref, the amount of funding catalyzed, and the percentage of funding obtained from sustainable sources. The data sources to be used to measure impact are questionnaires, evaluation forms, project documentation.*

### Future plans

- Developing at least one shared-value partnership between an enterprise and Amref.
- Leveraging networks built with other enterprise support organizations, donors, and health programming partners.
- Continuing to engage I4L program alumni.
- Measuring long-term outcomes and impact areas.
- Supporting thought leadership on accelerating innovators for health impact in SSA.





“ African health entrepreneurs must create disruptive innovations that are targeted to the bottom of the pyramid to create any lasting positive change in the continent. ”

**Oluwaseun Sangoleye**  
FOUNDER & MOM-IN-CHIEF,  
BABY GRUBZ



“ If Universal Health Coverage shall focus more on preventive and promotive health care, then cost reduction in curative health will be realized. ”

**Paul Mugambi**  
COUNTRY LEAD – KENYA,  
BAOBAB CIRCLE LTD



“We want to bring the entrepreneurs to meet the NGO people and create a nucleus of energy at the centre. That brings the innovation and creates something that outlives both, and becomes bigger than the two combined.”

— GITHINJI GITHAHI, Group CEO, Amref Health Africa.



“ Societies do flourish, thrive and prosper when people are in good health. Our task today is to advance UHC initiatives, first and foremost to ensure that both young and old have what they need to be healthy. ”

**Stuart Nyakatswau**  
FOUNDER & CEO,  
WASTINNOVA



### 2018-2019 TOP 3

- **Baby Grubz**, Nigeria. Social enterprise for healthy and affordable baby food.
- **Baobab Circle**, Kenya. Africa’s first, low cost diabetes and hypertension mobile app.
- **Wastinnova**, Nigeria. Sustainable methods to decrease biohazard waste disposal from healthcare research centers.





## JIBU M-LEARNING APP

Common challenges faced by nurses in Africa include acute shortages, retention, motivation and limited access to education and training. Amref, an African-led NGO based in Kenya, is using innovative approaches to build the capacity of health workers through e- and mLearning. In 2013, Amref piloted Jibu, a mobile learning app to support the professional development of nurses and midwives, in partnership with the Kenyan Ministry of Health, Rutgers University, the Nursing Council of Kenya and several training institutions. Jibu is Swahili for “answer” and is primarily aimed at capacity building, offering a cost-effective way to make continuous education and collaboration available to nurses through their mobile phones. In 2016, Jibu was able to ramp up to a full-scale East African program with multi-year support from the Elsevier Foundation. During phase 1, over 10,000 nurses and midwives in 3 countries enrolled in the application, signalling a strong desire to access credible, up-to-date learning materials.

To achieve scale and quality in training, Amref upgraded its learning management system into an integrated e-Campus platform serving as a one-stop shop with coordinated learning solutions to enable the scaling of health training and information to health workers across Sub Saharan Africa.



### Beneficiary group

Nurses, clinicians, healthcare students

### Budget

\$240,000 (2016-2018, no cost extension through April 2020)

### Location

The majority of the Jibu users are from Kenya, Rwanda, Tanzania, Uganda, South Sudan and Zambia

### Primary outcome

Improve the skills and knowledge of health workers by providing a sustainable and scalable mLearning application.

### Goals

- Develop additional pedagogically sound and accredited CDP content to ensure continuity.
- Further enhance the learner experience in collaboration with trainers, ministries of health and nursing regulators.

### Milestones

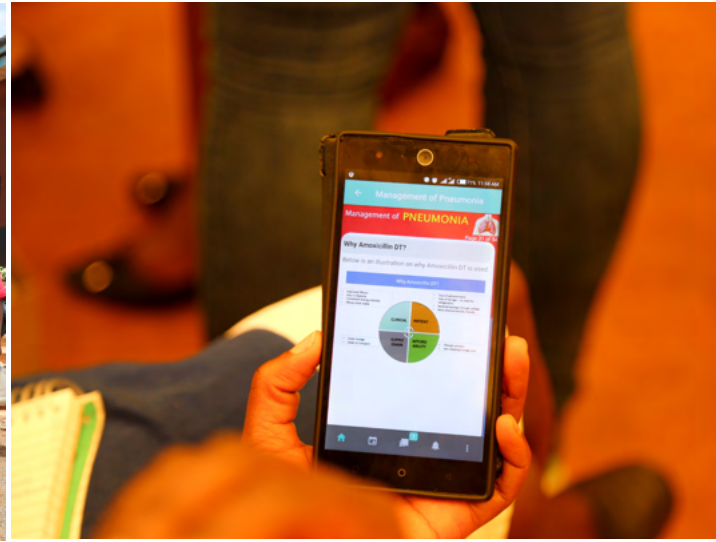
- **Pedagogically Sound and Accredited Content**
  1. More than 30 courses are available via Jibu. 50% of them have been accredited by at least one regulatory authority, while the rest are undergoing review for accreditation.
  2. Popular courses in both English and French cover pneumonia, diarrhea, leadership management and governance.
  3. Downloads have reached ~2,400 unique users.
- **Adaptation of the CPD Framework and Guidelines:** Amref and the Nursing Council of Kenya (NCK), a professional regulator of nurses and midwives, reviewed their CPD guidelines as part of Jibu. Jibu also supported the development of an accreditation tool aligned to the NCK guidelines to facilitate dissemination for increased awareness and uptake
- **Business model and sustainability of Jibu:** The project has identified promising viable products and services and has begun engaging potential clients to gauge their suitability for revenue generation.
- **Jibu launch:** A 2-day learning event was organized in March 2020 to officially launch Jibu and its next phase of engagement. It attracted stakeholders, policy makers, universities and health professionals for a discussion on the priorities in digital learning. A field visit to a healthcare clinic and a medical hospital in Kenya’s Nyeri County was also organized to enable Jibu users to share their experience.

### Level of evidence

Level 1	Quasi-experimental
Level 2	Pre-post or cross-sectional
Level 3	Point-in-time study
Level 4	Performance metrics/stats
Level 5	Anecdotal evidence

### Challenges

- **Internet connectivity:** The cost of data needed to download Jibu content remains prohibitive for some users.
- Jibu needs to be further developed to improve self-enrollment, the quality of data being collected, single sign on for popular platforms (Google, Facebook etc.) and further reduction of Jibu’s 42mbs app size.



“The Jibu app came to us at the right time when we needed it. The entire college as well as the hospital fraternity staff have also been using it, especially for getting updates in child diseases management. We plan to have it installed in our computer lab for easier accessibility by the students.”

— CAROLINE KIBARA, Deputy Principal, Methodist College of Health Sciences-Maua, Kenya.

Clockwise from top right: the Amref team visits a clinic in Nyeri County (150km from Nairobi) where Jibu is used by nurses and doctors to continue their education; a nurse in Nyeri shows how she uses Jibu on her phone to stay updated on pneumonia treatment; participants at the Jibu launch share their perspective on health education; the launch ceremony; the Elsevier Program Officer Domiziana Francescon with Diana Mukami, Director of Digital Learning at Amref. “Resolving the shortage of health workers requires a multi-pronged approach, including concerted efforts through public-private partnerships” said Mukami during the event. (All photos © Amref).

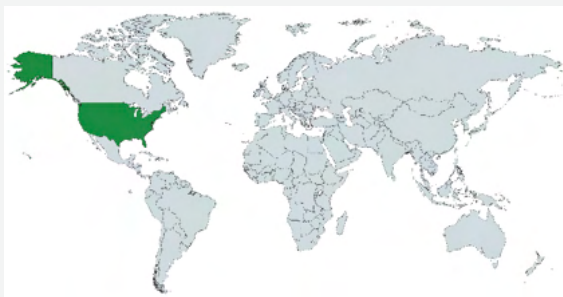


# Sansum Diabetes Research Institute

## LATINO DIABETES CITIZEN SCIENTISTS

### Impact

- Improving minority access to health information on diabetes: Racial and ethnic disparities in participation in clinical research (as researchers, subjects, and knowledge consumers) and access to and quality of new healthcare information have been extensively documented. The boost to health literacy among Citizen Scientists as well as easy access to understandable health information by LatinoDiabetes.net readers pave the way to minority access to diabetes knowledge.
- Increasing minority participation in clinical trials: Currently, Hispanic/Latinos represent 17% of US population but only 1% of clinical trial participants. Increasing access to new health information from clinical research and improving its “understandability” are likely to increase interest in clinical research among underserved populations.



### Beneficiary group

For this pilot, we will use U.S. Hispanic/Latino families as the reference population and diabetes as the model disease.

### Budget

\$60,000 (pilot year)

### Location

Santa Barbara County, CA

### Primary outcome

Create the first team of Hispanic/Latina Citizen Scientists and train them with wearable tech and clinical research to reduce health literacy barriers with Latino adults with or at risk of T2D. This pilot will refine the methods, develop the materials, and establish the feasibility of scaling the model to other populations and disease states around the world.

### Description

At present, U.S. Hispanic/Latino adults have a greater burden of diabetes and associated complications compared to the general population. The reasons for this disproportionate impact are likely to be influenced by challenges related to access to care, low rates of research participation, the social determinants of health, and low health literacy. The aim of this project is to determine the value of local Latino/Hispanic “Citizen Scientists” trained in diabetes, clinical research methods, and the use of wearable technologies to (a) help generate real-world evidence of the impact of the social determinants of health on the disproportionate Type 2 Diabetes (T2D) burden on U.S. Hispanic/Latino families and (b) overcome existing health literacy barriers to increase access to and understanding of this new knowledge.

To address these diabetes disparities and democratize critical knowledge, the Sansum Diabetes Research Institute has proposed a novel strategy. The program aims to equip Latino Citizen Scientists with the knowledge and skills that enable them to implement research instruments and deploy state-of-the-art wearable technologies that collect real-world data on factors (such as blood glucose levels, physical activity, sleep, etc.) related to the risk of progression of T2D with the emphasis on social determinants of health. With guidance, these same Citizen Scientists will then interpret the collected data and relay pertinent findings in an accessible way to participants, peers and the Latino community across the nation. Subsequently this approach will guide interventions to reduce the disproportionate burden of T2D being faced by this population

### Goals

- Add new modules and e-learning content to the existing Mil Familias curriculum. In 2018, the Mil Familias pilot involved 107 Latino adult with T2D, who proved key in establishing a unique big data set covering all 5 determinants of health (genetics, biology, psychology, behavior, and environment) to facilitate future interventions to reduce the current disproportionate impact that diabetes has on this population. The second phase, Mil Familias Cohort Establishment program, aims to recruit 1000 local Hispanic/Latino families living with T2D.
- Train Citizen Scientists to administer research instruments and deploy wearable devices as well as to interpret the results
- Validate among 50 adults with T2D using wearable devices and questionnaires to capture data covering the 5 determinants of health, including prospective data related to glucose, activity and sleep
- Interpret data and publish it for free on the LatinoDiabetes website.





In the U.S., members of racial and ethnic minority groups are disproportionately impacted by type 2 diabetes (T2D): the prevalence of both diagnosed and undiagnosed T2D is nearly twice as high among Mexican-origin Hispanic/Latino adults compared to non-Latino whites. Beyond genetics and biological factors, it is now recognized increasingly that sociocultural influences are important factors in determining an individual's risk of T2D and associated complications. Furthermore, health illiteracy is a significant challenge in this population, leading to low levels of understanding about the risk and nature of diabetes and low adherence to prescribed treatment regimens.

In this pilot, Latino Citizen Scientists will be equipped with the knowledge and skills that enable them to implement research instruments.



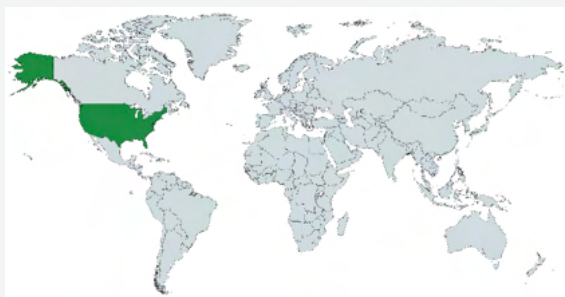
## NLN/ELSEVIER HBCU EXCELLENCE IN TECHNOLOGY INNOVATION

### Primary outcome

This program aims to use innovations in simulation and technology to drive teaching excellence; developing online, virtual products to both enhance faculty skills and expertise and meet the needs of learners.

### Goals

- Focus on technology user innovation through the launching of the NLN Coaching for Excellence in Nursing.
- 3-month cohorts of 4 faculty will complete five e-learning modules and six video challenges. 3 cohorts per year.
- E-learning modules that provides context for understanding nursing student challenges and how educators can help with the transition to professional practice.



### Beneficiary group

Nursing students and faculty

### Budget

\$60,000 (pilot year)

### Location

15 Historically Black Colleges and Universities (HBCUs) in the US with nursing programs

### Description

While many nurse educators come to higher education as experts in the art and science of nursing, they may not always be experts in the art and science of teaching and learning. Innovation in technology and teaching are increasingly becoming an essential tool for nurse educators in preparing students to provide safe and quality care in diverse healthcare settings. Technology today provides opportunities to think like a nurse, as novice nurses transition through their programs of study into professional practice. Engaging students in contextual learning using technology and dialogue shifts the focus from learners as doers of actions to learners as meaning makers. With this new nurse educator paradigm comes the challenge of delivering innovation in teaching excellence and the continuous development of online, virtual products to meet the needs of a contemporary generation of learners. This need is even greater in Historically Black Colleges and Universities (HBCUs) Schools of nursing where resources for faculty development are often limited and the students they teach are from underrepresented populations.

This program aims to provide nursing faculty in HBCUs and clinical preceptors in hospitals/health systems with the opportunity to enhance their coaching skills and facilitate student learning through innovative technology. It will form part of the NLN Center for Innovation in Education Excellence and will implement a course titled Coaching for Excellence in Nursing. This course includes e-learning modules that provide context for understanding nursing students' challenges and how educators can help with the transition to professional practice.

Founded in 1893 as the American Society of Superintendents of Training Schools for Nurses, the National League for Nursing was the first nursing organization in the United States. The NLN is the only national organization that represents all levels of nursing education, from licensed practical nurses, to registered nurses, to advanced nurse practitioners to PhD prepared researchers and teachers. It offers faculty development programs, networking opportunities, testing and assessment, and public policy initiatives to its 40,000 individual faculty members and 1,210 member schools.

### Evaluation

At the completion of each quarter, the NLN will conduct separate clinical preceptor, faculty and student focus groups to obtain qualitative data on the experience. Quantitative data will be gathered through surveys as part of the Coaching for Excellence curriculum evaluation process. Students within the eight HBCUs Schools of Nursing working with the faculty will complete the NLN Educational Practices Questionnaire. This questionnaire measures whether educational practices (e.g. active learning, collaboration, diverse ways of learning, and high expectations) are present in the classroom and clinical interactions. These data will be used to enhance the coaching course as well as evaluate outcomes of student success and enhancement of faculty and clinical preceptors' skills.





Teaching with and about emerging innovative technology is the future of nursing education. Providing nursing care in a highly technological, connected work environment is the future of nursing practice.

In this context the NLN recently established the Center for Innovation in Education Excellence recognizing the vital need to build faculty excellence by using innovative technologies to advance the health of the nation and to reframe how nursing students are taught and how graduates engage with patients and their caregivers in the connected age of health care. Under the leadership of the center's director, Dr. Susan Gross Forneris, the center will continue to forge connections across the changing technological landscape to magnify the reach and value of both information and relationships and co-creating opportunities for learning, working and collaborating.







The Green & Sustainable Chemistry Challenge in the words of the winners:

“This was the most important award of my career, increasing notably the visibility of the subject of sustainability and green chemistry in my country of Brazil.”

Dênis Pires de Lima, Federal University of Mato Grosso do Sul, Brazil, 2017 Winner

“The award has enhanced my professional visibility: many researchers have indicated interest in my work and would like to start collaborating with my lab.”

— Chioma Blaise Chikere, University of Port Harcourt, Nigeria, 2017 Winner

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# Research in Developing Countries

Only 2% of sustainability science research output is produced by developing countries, despite the fact that they are often the hardest hit by climate change, food, energy and other scarcities. For many low-income countries, this so-called 'science poverty' limits the effectiveness and potential for science and innovation to be relevant to their needs. The Research in Developing Countries program seeks to redress the balance with key partnerships designed to widen access to academic knowledge and deepen the involvement of scientists in developing countries in SDG-driven research relevant to the issues they face on a daily basis.



## The Elsevier Foundation Green and Sustainable Chemistry Challenge

Chemistry is an inextricable part of the world we live in—97 percent of our manufactured goods are made through processed chemicals. The Challenge encourages scientists to use green and sustainable chemistry solutions to tackle some of the developing world's greatest challenges whether in water, sanitation or energy.

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## The African Journals Partnership Program

Local research is essential for local challenges. Research without Borders partners up Elsevier volunteers with the African Journal Partnership Program, an NIH supported research capacity building initiative for African health journals. Through in-depth training and mentoring, we aim to boost the impact, effectiveness and visibility of African research for the African health context.

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## The Food and Agriculture Organization of the United Nations

The Research4Life eLearning MOOC expands and complements Research4Life support for research capacity building from in person trainings to include an online distance learning course for developing country researchers.

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## MLA/Librarians without Borders

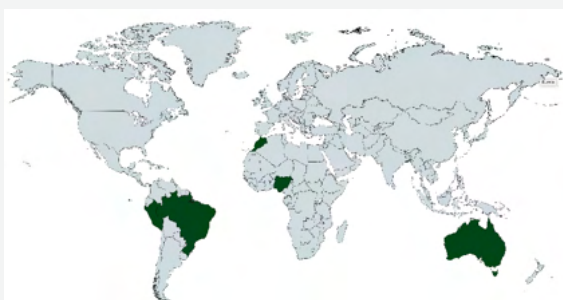
Making research available in developing countries is not sufficient to bridge the digital divide. Since 2007, Librarians without Borders has worked to fill that gap providing information literacy training which forms the backbone of Research4Life. By training the trainers, LwB is working to scale up countries' ability to strengthen their health sciences information capacity with qualified librarians, technological infrastructure and access to quality information.

# The Elsevier Foundation-ISC<sub>3</sub> Green & Sustainable Chemistry Challenge

Chemistry is part of the fabric of every aspect of our lives. The Green & Sustainable Chemistry Challenge taps the major role that chemists play in developing medicines, fertilizers, and other chemicals needed to resolve critical environmental and climate issues in developing countries. Jointly run with Elsevier's Chemistry journals, the Challenge aims to raise awareness and build networks around how chemistry can help us make crucial progress towards the SDGs.

The Challenge invites applicants from around the world to submit ideas for chemistry solutions to address sustainability challenges— energy, water, waste reduction, recyclability, chemistry, agriculture, medicine, etc in in low income countries. The 1st prize Challenge winner receives a €50,000 award, and the 2nd prize winner receives a €25,000 award.

In 2019, the Elsevier Foundation partnered with the German-based intergovernmental organization ISC<sub>3</sub> (International Sustainable Chemistry Collaborative Centre) to expand the Challenge's reach and build a community across multiple industry, academic, governmental and nonprofit sectors. ISC<sub>3</sub> has supported a third prize of €25,000 recognizing entrepreneurship and start-up potential in the green and sustainable chemistry field.



## Beneficiary group

Directly: researchers; Indirectly: labs, universities, local communities

## Budget

\$60,000

## Location

Global – with applications focusing on developing countries' challenges.

The 2019 winners are from Jordan, India and Ecuador.

## Primary outcome

The Challenge awards projects that use green and sustainable chemistry solutions to tackle some of the developing world's greatest challenges identified by the UN Sustainable Development Goals.

## Goals

- Highlight innovative chemistry projects that address issues in developing countries.
- The top 5 finalists pitch their projects at the annual Elsevier Green & Sustainable Chemistry Conference in Germany, creating critical visibility for an emerging community and field in the chemistry world.
- Encourage sustainability science, international collaboration and scientific exchange in developing countries.

## Milestones

- The 2019 Challenge winners demonstrate how green and sustainable chemistry offers tangible ways to support the UN SDGs:
- The 2019 winner of the ISC<sub>3</sub>-supported entrepreneurial prize was Mario Heredia Salgado from Ecuador, for his start-up "Andes". It focuses on producing biochar from agribusiness biomass wastes for soil improvement.
- With **71K** tweet impressions, the Challenge represents the Elsevier Foundation's most successful social media outreach. These high numbers were achieved by collaborating with Elsevier chemistry colleagues, tapping their communities and expertise.
- **2** environmental microbiologists and winners of the 2019 OWSD-Elsevier Foundation Women Scientists Awards were invited to present at the Green & Sustainable Chemistry Conference: Tista Prasai Joshi of the Nepal Academy of Science and Tabassum Mumtaz of the Bangladesh Atomic Energy Commission.

## Level of evidence

Level 1	Quasi-experimental
Level 2	Pre-post or cross-sectional
Level 3	Point-in-time study
Level 4	Performance metrics/stats
Level 5	Anecdotal evidence

## Future plans

- The 2020 winners will be announced at the Elsevier Green and Sustainable Chemistry Conference in Dresden, October 2020.
- Conduct a thorough 2021 impact and needs evaluation to determine whether green and sustainable chemistry should continue to be an important focus area for the Elsevier Foundation.





“To me, as an analytical chemist, it’s all about using my acquired scientific knowledge to solve societal challenges. I am committed to implementing sustainable and innovative methods to solve such problems facing my country and the region at large.”

— RAMIA ALBAKAIN, University of Jordan, 2019 1<sup>st</sup> prize winner



“Science is about changing perspectives. If you really want your research to be successful, hard sciences needs to pair up with social sciences, informing one another. My priority is serving my community, the farmers who have supported the project since the beginning.”

— ANKUR PATWARDHAN, Abasaheb Garware College, India, 2019 2<sup>nd</sup> prize winner

### THE 2019 WINNERS

- Dr. Ramia Albakain from Jordan won 1<sup>st</sup> prize for her project “New green technique to remove toxic metal from wastewater”: environmentally friendly solutions to use green membranes to treat medical wastewater, making it safe for agricultural irrigation.
- Dr. Ankur Patwardhan from India won 2<sup>nd</sup> prize for “Butterfly attractant for pollination and ecosystem health”, focusing on plant-pollinator interactions that play a vital role in maintaining ecosystem balance



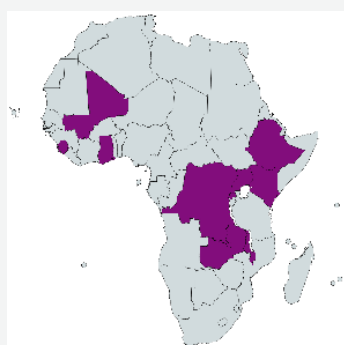
# African Journal Partnership Program

## RESEARCH WITHOUT BORDERS

One of the great challenges faced by African research is the lack of effective dissemination both within the African research community and internationally. To boost African health research impact and discoverability, the Elsevier Foundation founded “Research without Borders”, a skills-based volunteering partnership with the African Journal Partnership Program (AJPP), a high-profile mentoring program supported by the US National Library of Medicine and NIH’s Fogarty International Center and administered by the Council of Science Editors. Research without Borders collaborates with AJPP by providing Elsevier volunteer expertise in publishing, marketing, operations, technology and strategic guidance.

AJPP pairs 10 African health journals with leading US and UK health journals including, *The Lancet*, *The Annals of Internal Medicine*, *BMJ*, and *The New England Journal of Medicine*.

Elsevier volunteers provide supplementary training to the African journals for up to 4 weeks in country. The journals include: *African Health Sciences*, *Annals of African Surgery*, *Ethiopian Journal of Health Sciences*, *Ghana Medical Journal*, *Malawi Medical Journal*, *Rwanda Journal of Health Sciences*, *Annales Africaines de Medecine*, *Mali Medical* and *The Health Press Zambia*.



### Beneficiary group

10 African scientific and health journals

### Location

Ghana, Malawi, Ethiopia, Sierra Leone, DRC, Uganda, Mali, Kenya, Rwanda, Zambia

### Budget

\$50,000

### In-kind resources

Provide AJPP editors with access to ScienceDirect, Scopus and SciVal.

### Primary outcome

Provide skills-based volunteering offering strategic, editorial, communication and operational guidance — to boost the impact and discoverability of African health research.

### Goals

- Strengthening the impact of African journals by improving quality and discoverability through targeted mentoring teams
- Improving the discoverability of African research by assisting journal editors with applications to Scopus, MEDLINE and other scholarly indexes
- Facilitating the collaboration and knowledge exchange between African editors and their counterparts
- Supporting the training of authors, reviewers and journalists in Africa
- Building journal websites, evolving editorial board practices and improving the pool of authors and reviewers
- Developing strategic business plans, usually with a sustainable open access business model

### Milestones

13 Elsevier volunteers contributed a total of 22 weeks of time to share expertise with journals across 6 African countries in 2019. Since 2017, 34 volunteers have contributed a total of 97 weeks.

- A Francophone workshop for the DRC’s *Annales Africaines de Medecine* journal team was held during the African Health Agenda International Conference (AHAIC) in Kigali, Rwanda, March 2019.
- Volunteers Anne Roca (*The Lancet Global Health*), Christine Sempe and Yasmina Ouharzoune (Elsevier) joined AHAIC delivering research capacity building workshops and panel discussions on moving research to policy and African health tech solutions — along with Dr. Piu Kabututu (*Annales Africaines de Medecine*).
- Volunteers Connie Villalba and Christine Sempe attended the AJPP Annual Meeting in Columbus, OH, May 2019, to provide additional editorial training.

### Level of evidence

Level 1	Quasi-experimental
Level 2	Pre-post or cross-sectional
Level 3	Point-in-time study
Level 4	Performance metrics/stats
Level 5	Anecdotal evidence

### Future plans

- In 2020, conduct an evaluation of journal needs and continue support of AJPP with a reduced scope.
- Expand volunteer opportunities to a range of Elsevier Foundation partnerships, such as Amref, OWSD and Epicentre.





Above: while in Ghana to attend the Water First! workshop, we had the opportunity to visit Dr. Margaret Lartey, Dean of School of Medicine and Dentistry at the University of Ghana, and Executive Editor of the Ghana Medical Journal. Thanks to the work of Elsevier volunteers, in June the Ghana Medical Journal was accepted for full inclusion in Scopus.

Left: the AJPP team at the 2019 Annual Meeting in Columbus, OH. The two-day meeting serves as an important venue to review the partnerships' impact and way forward — and features reports from both the journals and the partners. In 2019 it also included a workshop on Journal Business Models co-led by Elsevier volunteer Christine Sempe.

“The progress of the AJPP journals has been substantial, with the journals all having raised their visibility online for readers and authors in Africa and worldwide, and the editors taking leadership positions in international organizations.”

— ANNETTE FLANAGIN, Co-Director, African Journal Partnership Program





# Food and Agriculture Organization of the UN

## RESEARCH4LIFE TRAINING MOOC



Many researchers, physicians, students and policymakers in developing countries continue to struggle with up-to-date, peer reviewed scientific literature, essential for research, dissemination and practice. Over the past two decades, UN-publisher Research4Life (R4L) partnership has worked to bridge the digital divide, providing free or low-cost access to research for publicly funded institutions in the world's least resourced countries. Over 9,000 institutions in 120 countries are now registered to access the more than 100,000 resources in R4L. Elsevier is one of the 6 original founding and driving partners, providing a quarter of that research.

Through Open Access and programs such as Research4Life, training rather than access has become the dominant issue for the global South. Traditionally, much of R4L information literacy capacity building has happened in a face-to-face, train-the-trainer capacity through the UN partners and the Elsevier Foundation-funded MLA/Librarians without Borders program. In order to significantly scale up virtual training, a 2019 grant from the Elsevier Foundation was awarded to the FAO-led R4L Capacity Development Team to create a pilot MOOC. The MOOC aims to equip Research4Life users with the knowledge and skills needed to develop capacities in information use, scholarly communication and information management in least developed countries.



### Beneficiary group

Librarians and researchers.

### Demographic

Female: 39.42%, male: 60.44%, prefer not to say: 0.14%

### Budget

\$43,000

FAO contributed 10% of the resources in-kind to coordinate the MOOC team and support participants.

### Location

Research4Life-eligible developing and emerging countries.

### Primary outcome

The Research4Life training MOOC contributes to the development of skills and competences to access scientific resources for low-income countries.

### Goals

- Identify and evaluate information sources, develop search strategy, familiarize search techniques.
- Understand ethical considerations in academia, gain skills in citing and referencing.
- Obtain deep knowledge about the institutional framework of Research4Life programmes.
- Access and search Research4Life content effectively, including browsing collections, using discovery and bibliometric analytical tools.
- Align MOOC and Librarians without Borders curricula to create a pipeline of virtual to face-to-face training courses.

### Milestone

**2,207** people enrolled in the course from **95** countries (61% participation; 48% completion)

- The MOOC consists of five modules including twenty-two lessons, focusing on developing capacities in information use, scholarly communication, and information management.

### Level of evidence

Level 1	Quasi-experimental
Level 2	Pre-post or cross-sectional
Level 3	Point-in-time study
Level 4	Performance metrics/stats
Level 5	Anecdotal evidence

*The MOOC demonstrated immediate impact through the increase in the number of institutions registered for Research4Life: 27 new registrations were received from the participating countries.*

### Future plans

- The R4L Capacity Development team can now facilitate online courses building on lessons learned and feedback from the participants.
- A train-the-trainer program combining the MOOC with face-to-face workshops will be delivered in 2020 by FAO and ITOCA.
- FAO has prepared a range of scalable options for donors to support capacity development and training, through face-to-face workshops, blended learning and online training. The UN Technology Bank for the Least Developed Countries has agreed to fund delivery of two additional R4L MOOCs in 2020. FAO also plans to undertake further fundraising and publisher collaboration to add modules in 2021 focusing on authorship skills and research impact assessment.



- Research4Life MOOC
- Participants
- Badges
- Grades
- Pre-Course Instructions
- Module 1: Scholarly Communication and Research4Life
- Module 2: Discovery and Re-Use of Scholarly Literature
- Module 3: Discipline-Specific Browsing and Searching
- Module 4: Additional Discipline-Specific Resources
- Module 5: Advocate on Research4Life and Facilitate Capacity Development
- Course Assessment and Certificate

Dashboard / My courses / A| Research4Life / Research4Life MOOC

## Welcome

### Research4Life MOOC | November 2019

Research4Life MOOC (Massive Open Online Course) will equip existing and future users of the Research4Life programmes (Hinari, AGORA, OARE, ARDI and GOALI) with the knowledge and skills required to access and use the platform efficiently.

Communication language in this course is English. The course will be available over 5-week period from 11 November to Sunday 15 December 2019. First day of the course, 11 November, Monday is about getting familiarised with the course page and introductions. The first Module and the lessons will be available for you to read and download by Tuesday, 12 November. Please always check the Calendar and News & Updates right under this section to find about the activities and announcements.

Participants are expected to spend on average six to eight hours per week on lessons and activities, such as contributing to discussion forums and webinars. This is an online course and you can allocate your time as you wish. You are not required to be present online at a certain date or time.

All participants enrolled in this course are required to read and agree with the following Code of Conduct.

For your questions, please contact us at [AIMS@fao.org](mailto:AIMS@fao.org).

#### NEWS & UPDATES

##### How to cite this course:

"Research4Life MOOC" (2019). The Research4Life MOOC was supported by the Elsevier Foundation and Food and Agriculture Organization of the United Nations (FAO). The work is licensed under CC BY-SA 4.0 International.

#### LATEST ANNOUNCEMENTS

- Add a new topic...
- 15 Dec, 13:21
- Ilkay Holt
- Closure Date for the Course Platform
- 13 Dec, 15:30
- Ilkay Holt
- Mailing List for the Participants of Research4Life MOOC
- 12 Dec, 18:34
- Ilkay Holt
- Things to do before the end of the course
- 10 Dec, 21:57
- Ilkay Holt
- Course exam and Certificates
- 4 Dec, 17:35
- Ilkay Holt
- Optional exercises on Summon and Dimensions in Module 3
- Older topics ...

#### CALENDAR

Food and Agriculture Organization of the United Nations



## Research4Life MOOC



### MODULE 1: Scholarly communication and Research4Life

#### Lesson 1.1: Scientific landscape

##### Learning objectives

- Have an overview of scholarly communication and scientific publishing
- Understand publishing economy and open access business models
- Perceive channels to disseminate scholarly work
- Identify trustworthy environments to publish in
- Become familiar with open data and open science movements

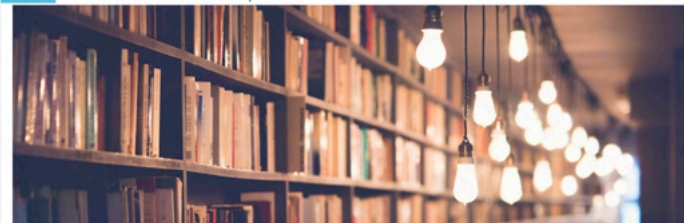
"Research4Life MOOC", 2019 (Massive Open Online Course). The Research4Life MOOC was funded by the Elsevier Foundation and Food and Agriculture Organization of the United Nations (FAO). Research4Life is a public-private partnership of WING, FAO, UNEP, WHO, ILO, Cornell and Yale Universities, the International Association of STM Publishers. It is the collective name for five programmes - Hinari, AGORA, OARE, ARDI and GOALI - that provide developing countries with free or low-cost access to academic and professional peer-reviewed content online.

This work is licensed under a [CC BY-SA 4.0 International](https://creativecommons.org/licenses/by-sa/4.0/) license except the logos used in the course.

- Research4Life MOOC
- Participants
- Badges
- Grades
- Pre-Course Instructions
- Module 1: Scholarly Communication and Research4Life
- Module 2: Discovery and Re-Use of Scholarly Literature
- Module 3: Discipline-Specific Browsing and Searching
- Module 4: Additional

### Module 1: Scholarly Communication and Research4Life

Restricted Available from 12 November 2019, 1:00 AM



This module includes key concepts about Research4Life including the institutional framework, programme coverages, eligibility for Research4Life programmes, user agreements, registration processes, advocacy strategies, promotional tools and support services to foster the usage of Research4Life and its programmes.

Forum: 1 Files: 3 URLs: 2 Quiz: 1  
Progress: 0 / 1

During the course, 27 new institutions registered for access to Research4Life, from participating countries, including Benin, Bhutan, Cameroon, Guinea, Kenya, Liberia, Libya, Nepal, Niger, Nigeria, Rwanda, Uganda and Tanzania. This indicated that the MOOC effectively led to a more widespread awareness of the Research4Life platform.

A second edition of the MOOC will run from 20 April to 24 May 2020, and participants are expected to spend on average six to eight hours per week on lessons and activities, such as contributing to discussion forums and webinars.

“The course was an eye-opener to me. I used to hear my colleagues mention words like Bibliometrics, Scopus, Dimensions, ClinicalKey. I would wonder which world they were coming from. I now have a clearer concept of this hidden world of academia.”

— REUBEN WASWA NABIE, Kenya, Course participant



## LIBRARIANS WITHOUT BORDERS

Before the digital revolution, practicing evidence-based health care, policymaking or education in developing countries was virtual impossible. In 2001, that slowly began to change, first with Hinari, WHO's biomedical free and low cost access to research program and later with open access and Research4life (R4L) which comprises 5 programs including Hinari, 100,000 peer reviewed resources, 9,000 registered institutions and 200 publishing partners. Despite these gains in access however, many researchers, doctors, librarians and policymakers in developing countries still suffer from a lack of information literacy. The Librarians without Borders (LwB) was founded in 2007 by the Medical Library Association (MLA) and supported by the Elsevier Foundation to provide essential face-to-face, train-the-trainer workshops for the R4L community. Since 2016, LwB also supports a corps of librarian trainers through annual training grants. To date, the partnership has awarded 15 training grants, conducted 90 workshops in forty-two countries and developed a decade worth of training modules. The 2019 FAO R4L MOOC supported by the Elsevier Foundation will complement LwB's efforts, helping to scale up virtual training reach and offering participants a required pre training for face-to-face LwB workshops.



### Beneficiary group

Researchers, faculty, students and staff from governmental and local non-governmental agencies.

### Budget

\$45,000.

The Elsevier Foundation funds often are leveraged with additional resources from UN agencies or participating institutions.

### Location

Developing and emerging countries.

### Goals

- Increase the number of trainers based at R4L registered institutions, including health information professionals, researchers and lecturers in multiple disciplines, and post-graduate and medical students whose activities will result in a cascading effect on users from their institution.
- Build the R4L repository of learning and training with timely and relevant materials, a critical and ongoing activity.
- Inform and align LwB training with the FAO R4L MOOC curriculum.

### Milestones

5 grant projects completed in Rwanda, Zimbabwe, Sierra Leone, Tanzania and Nigeria – many of them built on previous grants as longstanding collaborations with the host institutions.

20 funded projects since 2016.

2 Hinari 'Train the Trainers' workshops completed by the coordinator, Lenny Rhine:

- Zambia Library Consortium/University of Zambia; July 2019. 34 participants: health information professionals from several regions.
- University of Papua New Guinea School of Medicine and Health Sciences Library; November 2019. 40 participants: health information professionals, lecturers and clinicians and key National Department of Health staff.

### Level of evidence

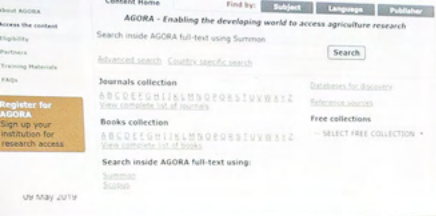
Level 1	Quasi-experimental
Level 2	Pre-post or cross-sectional
Level 3	Point-in-time study
Level 4	Performance metrics/stats
Level 5	Anecdotal evidence

*Pre- and post-workshop surveys are completed; a six-month follow-up 'outputs' survey is also disseminated.*

### Future plans

- Continue to align the LwB training with the FAO R4L MOOC to create a streamlined training offering going forward
- Update face-to-face training material, in collaboration with ITOCA.
- Highlight underutilized resources via the work of a R4L taskforce.
- Update the author skills material to include better coordination with other agencies (INASP) and publishers that have similar resources and conduct related courses.
- Together with the staff of the WHO Country Office in Papua New Guinea, LwB is piloting a follow-up strategy focusing on updating individuals trained in the past 3 years, a 'rollout' for National Department of Health (NDOH) training, and integration of research strategy using R4L resources for the NDOH's five-year strategic plan.





Quiet Please!



Main image: the Librarians without Borders Coordinator Lenny Rhine teaches researchers how to get the most out of Research4Life during a training in Port Moresby, the capital of Papua New Guinea, in November 2019.

Over 40 participants attended, representing most of the key health-related organizations from the region. The workshop had a special focus on Hinari, Research4Life’s health research programme, and included training on reference platforms like Mendely.

“I want to start a center for victims of gender-based violence, as well as a research center on the subject. As a young researcher, Research4Life plays an important role for advancing my career.”

— OLIVIA SHARON EPHRAIM, a participants in the Papua New Guinea Workshop







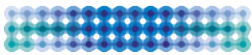
The winners of the 2020 OWSD-Elsevier Foundation Awards for Early-Career Women Scientists in the Developing World were honored for their outstanding contributions in engineering, innovation and technology at a special ceremony during the American Association for the Advancement of Science annual meeting in Seattle, WA. Their week in Seattle also included a visit of the city and its vibrant science scene, from the Amazon Campus to the e Bill & Melinda Gates Foundation — with a stop at the famous Pike Place Market, a historic district as well as incubator and supporter of local farmers, artisans and small businesses

(© Alison Bert/Elsevier)

# Diversity in STM

The future of science requires a robust and diverse workforce drawn from all corners of society. Encouraging STM careers among young people with severely limited educational resources and few professional role models is particularly challenging. To address this, we have expanded our focus on advancing women in science to include new partnerships helping underserved youth receive greater exposure to science and health education.

imcweekendschool



## IMC Weekend School

The IMC Weekend School offers a science and health enrichment program to underserved 11–13-year olds in Amsterdam. Our partnership fosters inspiring exposure to science and health education for children of largely immigrant backgrounds, encouraging STM careers but also promoting positive professional role models.

Imperial College  
London

## Imperial College London

Imperial College London has developed the White City Maker's Challenge program offering 14–18-year olds from White City, one of London's most disadvantaged communities the opportunity to engage with cutting-edge science, 3D printers, engineering and design workshops, afterschool clubs, mentoring and project teams.

girls  
inc.

## Girls Inc of New York

The Pre-G3: The Elsevier Foundation Data Analytics Preparatory Program is a partnership run by with Girls' Inc of New York. The program aims to offer girls tangible skills at a lower developmental level to prepare them for the concepts they will encounter in the high school programs.



## The Organization for Women in Science for the Developing World

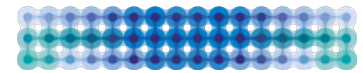
Since 2010, the OWSD-Elsevier Foundation Awards for Early-Career Women Scientists in the Developing World recognizes the achievements of researchers who have made significant contributions to the advancement of scientific knowledge.

DataKind  
USING DATA IN THE SERVICE OF HUMANITY

## DataKind

Nonprofits don't always realize the power of the data they have and how it can be tapped to deliver insights into their goals. Datakind works with both data scientists and social sector experts to address some of the world's biggest challenges. We support Datakind's DataDives: a weekend datathon matching scientists with non-profits.





# The IMC Weekend School

## AMSTERDAM SCIENCE, TECH AND HEALTH PROGRAMS

Encouraging careers among young people from communities with severely limited educational resources and few professional role models is crucial. For the past 21 years, the IMC Weekendschool (IMC) has offered an enrichment program for children in underprivileged neighborhoods across 10 of the largest cities in the Netherlands. Over the course of a 3-year program, professionals, teachers and volunteer coaches introduce 10 - 14 year old students to a wide range of disciplines including science and health while helping them to connect more fully to society, develop communication and conflict resolution skills and all-around character development training to improve their career prospects. Since 2015, the Elsevier Foundation has supported the science and health programs for the Amsterdam West-based Weekend School, and in 2019 provided funding for the development of a new technology program.

### Goals

- Enable identification with the lecturers. Students experience what it is to be a professional and execute an assignment that comes very close to the real job.
- Students realize that each field of study or work holds viable career opportunities for them.
- Students develop essential life skills such as presenting, working together as a team, awareness of self and others, and exercising influence.
- Work with students to generate enthusiasm, stimulate the imagination, creativity, critical thinking



### Primary outcome

IMC aims to inspire students about career perspective and help them to develop a specific set of competencies, including self-confidence and a professional network, to achieve their goals in the future.

### Health

The IMC Health module aims to show the children that healthcare is not just about doctors and nurses, but requires different professions with a wide range of educational levels. It also emphasize the importance of taking good care of both body and mind and will incorporate mindfulness in 2020.

In their local hospital the students talked to a wide range of professionals. They also undertake hands on activities such as learning how to take blood samples and make a cast for a broken arm, touring an operating theater and MRI rooms. They were also taught by a special guest teacher, a doctor focusing on homeless and undocumented people in Amsterdam.

### Natural Sciences

In the Science module, students learn that science is not just about knowledge, but curiosity, creativity and logical reasoning. Scientists teach them about discovery, analysis, tests and experiments. They learn how things works by diagnosing and conducting experiments , understanding the basic principles of scientific research: observe, explain and predict.

### Technology

Together with IBMa and VhTo students explored the field of technology, focusing on AI, Data Analytics, machine learning, computational thinking, coding, apps development and robotics, and the relationship between humanity and technology in a philosophical and ethical perspectives. The development of social skills, creativity and ingenuity were emphasized.

Students were challenged to think about AI and data applications in relation to social phenomena. They conceptualized their own app for school: ideas focused on school lunch, homework, extracurricular activities and tuition. They undertook programming assignments with MicroBits and Scratch.

The final class focused on educational robotics, provided by robotics professionals from Robotwise, a Dutch educational startup. Students encountered different types of robots and created different tracks on the floor which the robots followed. They were able to incorporate their newfound programming skills and concepts like computational thinking and debugging from previous lessons.

### Level of evidence

Level 1	Quasi-experimental
Level 2	Pre-post or cross-sectional
Level 3	Point-in-time study
Level 4	Performance metrics/stats
Level 5	Anecdotal evidence

### Beneficiary group

10-14 year olds

### Budget

\$33,000

### Location

Amsterdam West, The Netherlands



Main image: IMC Weekend School alumna Maryam Lyousofi teaches current students about the field of medicine: a growing number of alumni are now providing guest lectures about their own field of study or work, becoming role models for the next generation. Left: students learn the basics of robotics during the technology course. (Photos © IMC Weekend School)

“Elsevier is an involved partner that contributes to the lives and knowledge of students of IMC Weekendschool West and also contributes to our projects and their impact in terms of content, strategy and network.”

— HELEEN TERWIJN, Founder, IMC Weekend School

### Future plans

- Deploy their network in a more pro-active manner and to continuously improve their programming for students, parents and partners to enable further development and growth.
- Stimulate the social engagement and shared ownership of students and alumni at a local and national level.
- Develop a PR strategy to communicate those missions.
- Further evolving and developing technology lessons with the Elsevier Foundation; as well as improving the overall coherence of the natural sciences module.
- Setting up a Tech alumni group to lead the program in the future.





## THE MAKERSPACE CHALLENGE

Imperial College London has pioneered a new form of outreach at White City, aimed at inspiring teenagers from disadvantaged backgrounds to experience and interact with science through their own creativity. The Makerspace Challenge Program offers young people aged 14-18 from one of London's most disadvantaged urban communities the opportunity to engage in a creative, innovative and entrepreneurial program designed to build practical and soft skills by taking an idea to working prototype, and potentially beyond.

The Makerspace builds on decades of Imperial's more traditional STEM outreach, aimed at inspiring students regardless of background to consider STEM subjects at university. The program is based in White City, where ICL has established their new biomedical campus, and is situated in the larger "Invention Rooms" center which also houses ICL's advanced hackspace and a community engagement space. Participants develop a wide range of vocational technical skills using a variety of tools and equipment including traditional as well as cutting edge technology, such as 3D printers, laser cutters and scanners. In addition, they receive practical business skills training from the Imperial Business School on communication and negotiation, planning, financial management, marketing and sales.



### Beneficiary group

2019 Spring Cohorts 7 and 8: 40 participants in total (53% female) from 20 different schools.

### Demographic

Age: 14-18 years

### Budget

\$50,000

### Location

London

### Primary outcome

Provide creative design and technical opportunities for local young people that are outside of their normal daily experience, and for those students whose schools no longer have this provision.

### Goals

- Develop participants' technical vocational and business skills.
- Develop critical life skills necessary for employment: team-working, problem-solving, presenting and effective communication.
- Support personal growth, confidence and self-esteem.
- Provide opportunities for local young people to consider alternative career routes.

### Milestones

Many participants within the two 2019 cohorts were younger (11-13 year olds) than anticipated, and the team noted that they demonstrated greater needs which impacted on overall program delivery. In the future, participants' will be required to be at least 14 years of age.

**33** participants shared their work in a community showcase and in front of a panel of judges from The Economist and Imperial College

**2** female participants were selected to present at the 2019 WeInnovate final at ICL in March. Both were trained and supported by the College's Enterprise lab and presented pitches to an audience of over 300.

**2** girls were nominated for the 'Young Innovator of the Year Award' at the London Borough of Hammersmith and Fulham's Youth Achievements Awards, with Cindy winning the award.

- Many participants built adaptable desk or shelving to address living in small spaces. Some developed games, learning tools or innovative transport solutions, and others looked into community-oriented projects
- The team witnessed incredible transformations among participants in terms of confidence and personal development. Many considered the business skills and coaching day a key component providing vital transferable skills. Working with a Business School and Makerspace outreach graduate provides participants with a safe space to develop their communication and presentation skills.

### Level of evidence

Level 1	Quasi-experimental
<b>Level 2</b>	<b>Pre-post or cross-sectional</b>
Level 3	Point-in-time study
Level 4	Performance metrics/stats
Level 5	Anecdotal evidence

*Pre-participation surveys (Baseline attitudes to STEM subjects, studies, skills and competencies); Post-participation surveys; Participant feedback; Observational feedback from mentors and staff*





Above: participants of the 2019 spring cohorts work on their projects.



Left, in the striped shirt: Aaron Vidal, the winner from the spring challenge cohorts. Aaron is in his final year at The John Fisher School in Purley. He created VISOR, a headset with a visor and incorporated voice assistant. Aaron had a complete attendance record, an impressive feat considering the distance he had to travel each week.

(Photos © ICL)

### Future plans

- Continue to increase the provision of the Proto-Maker Challenge (11-14 years old) and local community activities to deepen engagement and create a pipeline for recruiting teenagers for the Maker Challenge program.
- Seek to engage and recruit young people who are disengaged and have lower motivation.
- Continue to explore opportunities to develop a program of work placements and internship opportunities for Makerspace graduates with local business partners.

### Challenges

Reaching disengaged young people to participate in the program is an ongoing challenge. The Makerspace team will recruit a new community activity liaison to work directly with schools and community groups to provide less-commitment heavy activities and create a recruitment pipeline for the Makerspace. However this could create another challenge: balancing demand against eligibility criteria to ensure the program doesn't become overly competitive and discourage young people from participating.

## PRE-G3: THE ELSEVIER FOUNDATION DATA ANALYTICS PREPARATORY PROGRAM

Women hold just 26% of data science-related jobs and minority women have an even less advantageous employment outlook, according to a 2017 report by the American Association of University Women. In 2017, less than one in 10 women in the data workforce were minorities: Asian (5%), African American (3%) and Hispanic (1%).

Through its programming, Girls Inc, a non-profit serving girls ages 6 to 18 at more than 1,400 sites in 400 cities across the US and Canada, has prepared girls to study in STEM fields and attain college and postgraduate degrees. Over the past 4 years, Girls Inc of New York City (GINYC) has introduced hundreds of high school girls to the field of data analytics through Generation Giga Girls (G3): The Moody's Data Analytics Program. However, the demand for more programming, serving more girls at an even earlier age, has become a critical priority.

To achieve this, GINYC has partnered with the Elsevier Foundation to launch a first-of-its-kind introduction to data analytics for girls as young as 8th grade using a social justice lens. Underserved girls often lack the basic hard and soft skills required to thrive in intensive programs like G3. The 8<sup>th</sup> grade is also a crucial year as students begin to get harder academic coursework, develop time management and organizational skills while being exposed to competing priorities with increasing responsibility at home and social pressure among peer group. Pre G3 aims to fill that gap by creating a strong data skills pipeline for talented young women.



### Demographic

Girls age 12-15 years

### Budget

\$100,000

### Location

Girls Inc. of New York City (GINYC) runs the program throughout the five boroughs of New York City.

### Primary outcome

Middle school-aged girls completing Pre-G3 will have a firm grasp of core skills and concepts, greater confidence in their ability to succeed in a more rigorous mathematically focused course, and a stronger interest in continuing their study of data analytics.

### Goals

- Improve math scores and overall academic scores.
- Increase curiosity in STEM, with particular emphasis on data science.
- Increase belief in the importance of data analytics and STEM.
- Increase the percentage of students who demonstrate readiness for high school-level study in STEM fields.
- More than 50% of girls who complete Pre-G3 will participate in the G3 program.
- Increase the percentage of students who demonstrate readiness for college- level study in STEM fields.
- Increase the number of students who graduate from a post-secondary institution with a degree in a STEM field

### Milestones

40 teen girls from all across NYC joined the launch of Pre-G3 in June 2019 during the annual Summer Data Analytics Institute. The Institute ran Mon-Thu, 9am-4pm for 4 weeks. It engaged the girls in the world of data science and its effects on their interactions with nearly every aspect of their lives.

- Over the 4 weeks, the girls were introduced to Giorgia Lupi's data visualization work, which provided an accessible introduction to "humanistic" and creative ways for improving the accessibility of information through visual representations. Lupi's work helped to inform their final projects and the way they chose to represent data around topics that included immigration, mental health, and the school-to-prison pipeline.
- In September 2019, partnered with two middle schools (in East Harlem and the Bronx) to implement the Pre-G3 program as a class for 2 cohorts of middle school girls.
- In Spring 2020, partnering with 3 middle schools and one high school to implement the course over 15 weeks.
- Hosted trainings in for NYC educators at existing partner school.

### Level of evidence

Level 1	Quasi-experimental
Level 2	Pre-post or cross-sectional
Level 3	Point-in-time study
Level 4	Performance metrics/stats
Level 5	Anecdotal evidence

GINYC applies an Outcomes Measurement Strategy designed to help illustrate and showcase the measurable difference they make. They contract with Philliber Research Associates to evaluate behavioral outcomes as well as academic performance.





Above: Mariama answers a question in a lesson about probability and fairness in a class of the Pre-G3 Elsevier Data Analytics Preparatory Program class.



Left: Marguerite Copeland, Program Specialist for Girls Inc. of NYC, flips a coin in a lesson about probability.

(All photos © Alison Bert/Elsevier)

### Future plans

- Recruitment of 50 girls for the 4-week summer institute
- Identify a new cohort of 10-15 middle and high schools to partner with during the 2020-2021 school year and serve 200 girls.
- The Staten Island Borough President's office is interested in piloting the Pre-G3 program in 5 middle schools

### Challenges

One of the major challenges has been capacity to reach more girls; most schools don't have the ability to provide an educator to facilitate the integration of Girls Inc. They are working to confirm partners and identify teachers in advance to provide them with greater flexibility to attend a week-long summer training. GINYC is also planning to offer incentives to increase retention amongst students. In response to the COVID19 health response and school shutdowns in New York City, Girls Inc. was able to rapidly move Pre-G3 and many of its other programs online to ensure that the girls continue their vital skills- building during this difficult Spring period.







# The OWSD-Elsevier Foundation Awards for Early-Career Women Scientists in the Developing World

Women scientists in developing countries often experience isolation, lack of role models and visibility. For the past seven years, the Organization for Women in Science (OWSD) has collaborated with the Elsevier Foundation addressing these issues through a unique awards program for five outstanding early career women scientists from Africa, the Arab region, Asia and the Pacific region and Latin America and the Caribbean. The prizes rotate each year between three areas: (biological sciences, physical sciences, and engineering, innovation and technology).

Each winner receives a cash prize of USD 5,000 and is sponsored to attend the annual meeting of the American Association for the Advancement of Science (AAAS), held every year in February. The winners are presented with their awards at a special AAAS networking ceremony, and have the opportunity to attend workshops and sessions, meet experts in their fields, visit local laboratories and institutions, and attend a celebratory networking dinner organized by the Elsevier Foundation.

The meeting is an important opportunity to establish contacts and collaboration networks with colleagues from different parts of the world.



## Beneficiary group

5 women scientists

## Demographic

There is no age limit but the awardees must have received their PhDs within the previous 10 years.

## Budget

\$85,600

## Location

The 2020 winners are from: Bangladesh, Guatemala, Kenya, Sri Lanka, Yemen

## Primary outcome

The Awards aim to increase the number and influence of women doing high-level science in the developing world. The premise is simple: the more diverse the pool of scientists, the more robust the science. Women scientists often make life-changing contributions, identifying problems and finding solutions that others have not considered.

## Goals

- Increase the visibility of outstanding women scientists in developing countries
- Support their career advancement
- Inspire future generations of women scientists in the developing world, who struggle with a research environment that are often oblivious, indifferent and even hostile to their needs, expertise and experiences

## Milestones

- Since 2010 **54** scientists have been awarded, **35** since 2013 (when the awards were redesigned to the current format of 5/year).
- Women from **19** countries have been awarded since 2013.
- In 2019, an additional travel grant component was added to the Award offering awardees the opportunity to continue broadening their networks through conferences or workshops, to amplify the impact of the award.
- Additional funds: since 2014, a supplementary cash award of \$2,500 per awardee has been made by private donors, past AAAS President, Dr. Gil Ommen and his partner, Martha Darling.
- Increased scientific excellence: invitations to present on international and regional panels, to collaborate on publications and visit laboratories.

## Level of evidence

Level 1	Quasi-experimental
Level 2	Pre-post or cross-sectional
Level 3	Point-in-time study
Level 4	Performance metrics/stats
<b>Level 5</b>	<b>Anecdotal evidence</b>

*Monitoring media coverage; reports from past awardees; email feedback.*

## Future plans

- Integrate the winners into the broader OWSD network of 9000+ members throughout the developing world as key mentors and advisors; enable them to play key roles as advisors and trainers to OWSD national chapter members, PhD and Early Career Fellows.
- Stronger impact monitoring through post-award surveys modeled on other OWSD SIDA and IDRC-funded programs



Above: Dr. Fathiah Zakham, Dr. Champika Ellawalla Kankanamge, Dr. Samia Subrina, Dr. Chao Mbogo and Dr. Susana Arrechea during the 2020 Award Ceremony at the American Association for the Advancement of Science (AAAS) in Seattle, WA. (© Alison Bert/Elsevier)



Left: During their week in Seattle, the winners received training in public engagement and science communication by Emily Cloyd, Director of the AAAS Center for Science Engagement. The training was complemented by Dr. Jennifer Thomson, President of OWSD (far left in the picture).

### SPOTLIGHT ON NAREL PANIAGUA ZAMBRANA 2019 WINNER - BOLIVIA

Dr. Paniagua-Zambrana received direct recognition from her country's then President, Juan Evo Morales Ayma, who posted a tweet congratulating her, and organized a face-to-face meeting with her upon her return to Bolivia. She was able to share with him her research and her vision for helping indigenous communities in Bolivia to catalogue their use of native plants and contribute to the body of scientific literature. Paniagua was also approached by the World Food Program in Bolivia who created a wall-size mural portrait of her for International Women's Day, with the message "Every Girl can be a Scientist if she wants." She was also able to discuss with them the possibility of developing a joint collaborative research project using traditional knowledge for food security.

**"These scientists are living proof that, if given the opportunities and support, women all over the world can become leaders in their field."**

— JENNIFER THOMPSON, President, Organization for Women in Science for the Developing World





## WATER FIRST!

Water security remains one of the greatest challenges of the 21st century. In sub-Saharan Africa, women bear 71% of the water collection burden, produce 90% of all food and comprise 70% of the agricultural workforce. Women are involved in water-related activities such as water conservation, water storage, domestic cleaning, crop production and preparation of food. Despite this, women have restricted access to the resources needed to secure and manage scarce water such as land, agricultural inputs, finance and credit. African women are at the forefront of the daily struggle for water security, but few are in key leadership positions in the water resources area. This lack of representation in decision-making roles removes women's vital contribution to water resource policymaking and management, and further exacerbates the existing disconnection between policy and implementation.

WATER FIRST! is one of the international programs directed by COACH, a grassroots organization working around the globe to increase the number and success of women in science and engineering careers. Since 1997, COACH has reached over 20,000 scientists in the U.S. and over 20 developing countries. WATER FIRST! delivers workshops to women scientists to build capacity, create networks of women working in water research, academia and provide professional skills development.



### Beneficiary group

Researchers and policymakers

### Demographic

Female

### Budget

\$70,000

### Location

Africa

### Primary outcome

WATER FIRST! is working to assure that women scientists, engineers and policy makers in Africa are educated and empowered to assume those leadership roles in water research.

### Goals

- Foster a network of women researchers in the US and Africa who have common interests in increasing international water research and collaborative activities between women scientists in these countries.
- Leverage the Water First! network and the expertise of its participants to develop innovative and cross-disciplinary strategies for advancing the research and educational activities of women researchers and their students in these countries.
- Develop plans to maintain and grow this network and to extend its outreach into other scientists (men and women), communities, and institutions.

### Milestones

**27** women from **15** different African countries attended the first workshop held in Accra, Ghana, September 9-11, 2019.

- A WhatsApp group was created for participants to continue staying in contact. To date, the site is very active with participants posting jobs, travel opportunities, conferences, etc. In addition, the WhatsApp group has been a great gauge of how the group bonded in Ghana.

### Level of evidence

Level 1	Quasi-experimental
Level 2	Pre-post or cross-sectional
Level 3	Point-in-time study
Level 4	Performance metrics/stats
Level 5	Anecdotal evidence

We conduct Networking Surveys at the workshops to determine the level of Networking within the group. The information collected: Who did you know before coming to workshop/Met for the first time at workshop/ Who do you plan on keeping in contact in the future. A follow-up survey is sent in March 2020, 6 months after the workshop.

### Future plans

The next workshop will be held in Zanzibar in December 2020.





From top right, clockwise: Akissa Bahri (left), Professor at the National Agricultural Institute of Tunisia and Secretary of State for Water Resources, and Clare Muhoro, Associate Professor of Chemistry at Towson University and Science and Partnerships Advisor in the U.S. Global Development Lab, USAID.

Participants at the Women in Water workshop in Accra in October 2019. Attendees came from 15 different African countries and together with instructor Dr. Geri Richmond they developed a series of action plans to both build their network while also work to make access to clean water a priority in their countries.

**“Women’s lives are centered around water and yet, they aren’t working on policies and implementation. I want to see them become leaders, and that’s what Water First! is about.”**

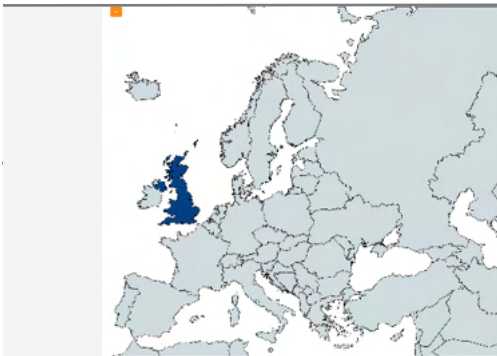
— GERI RICHMOND, Presidential Chair in Science and Founder of COACH, University of Oregon.



## DATADIVE IN LONDON

Software, sensors and mobile phones produce a goldmine of data. Today, most companies are working closely with data scientists to get the most out of this data to better serve their customers. DataKind works with non-profits to uncover the power of data science and predictive analytics for their mission-driven organizations. Through a DataDive or two-day hackathon-style event, DataKind brings together volunteer data scientists and social change organizations to solve key problems in their communities.

A group of 'Data Ambassadors' or experienced volunteers work closely with the nonprofits during the six weeks leading up to DataDive to identify the most salient data questions, and to prepare or 'clean' the datasets for the DataDive. Participating in a DataDive serves as a unique opportunity for volunteers to learn and test out new skill sets, build cross-industry connections, and utilize their data science talents to produce actionable, meaningful results for mission-driven organizations.



### Beneficiary group

The 2019 DataDive worked with 3 non-profits:

- *Street League* supports unemployed 16-24 years old to move into employment using the power of sport, teaching them key life and work skills they need for sustainable employment.
- *Mind* is driven by the needs of people experiencing mental distress by offering a wide range of services and support in London.
- *The Mix* provides a free, confidential multi-channel service offering support for under 25 year olds - so that all young people are able to make informed choices about their physical and mental wellbeing, to live better lives.

### Budget

\$25,000

### Primary outcome

DataKind helps charities to harness the power of data science to boost their impact and make meaningful contributions to the communities they serve.

### Goals

- **Turn ideas into technical projects** - Turn nonprofits' initial data challenges into a technical project scope that meets their needs.
- **Provide answers** – Use the DataDive event to uncover answers to the questions that the nonprofits have posed.
- **Build capacity** - Work with nonprofit partners to ensure that they develop a greater understanding of data use and data science and how to sustainably embed these skills in their organization.
- **Increase data maturity** – Improve the ability of the nonprofits to use data to develop their senior leadership's engagement in and understanding of predictive analytics; ensure that staff have the critical tools they need to use day to day.

### Milestones

The July 2019 DataDive was held at the Elsevier London office.

**100** data scientists involved, including 3 'Data Ambassadors' leading and managing the project after conception, and teams of 20-30 pro-bono data scientists supporting each non-profit throughout the weekend

**3** charities supported

### Level of evidence

Level 1	Quasi-experimental
Level 2	Pre-post or cross-sectional
Level 3	Point-in-time study
Level 4	Performance metrics/stats
Level 5	Anecdotal evidence

*DataKind measures impact by assessing organizational data maturity of the nonprofits before and after joining their programs (Level 2). DataKind also collects self-reported assessments of impact through a survey and a more qualitative discussion (Levels 4 and 5).*

### Future plans

The London chapter of DataKind run DataDive projects on a rolling basis and have organized 30 to date, 3 of which have been supported by the Elsevier Foundation. Our aim is to continue supporting this critical data change management work in the nonprofit sector.





Above: Nelly Lukwo (second from right), a reporting lead at Elsevier, talks with other volunteers at the London DataDive. The 2019 event was Nelly's second DataDive, after she participated in the 2017 one.



Left: The July 2019 DataDive at the London Appold St office was made possible by a dedicated team of colleagues from the technology teams in the UK.

“Having a company like Elsevier involved helps because it’s been through that journey to become much more data driven. There are challenges that Elsevier has overcome, and it’s a similar conversation to the one we have with the non-profits.”

— EMMA PREST, Former Executive Director, DataKind UK





# The Elsevier Foundation Matching Gift Program

To support community engagement, the Elsevier Foundation provides annual matching funds to charitable organizations supported by Elsevier employees. Each year, our Matching Gift Program earmarks \$200,000 to match employee's individual and group donations to eligible non-profit organizations around the world. The Fund is also used to support global disaster relief efforts championed by Elsevier colleagues. By matching employee gifts, both employee and Foundation resources are leveraged for maximum community benefit, ensuring that colleagues feel connected to the world around them.

## Challenges

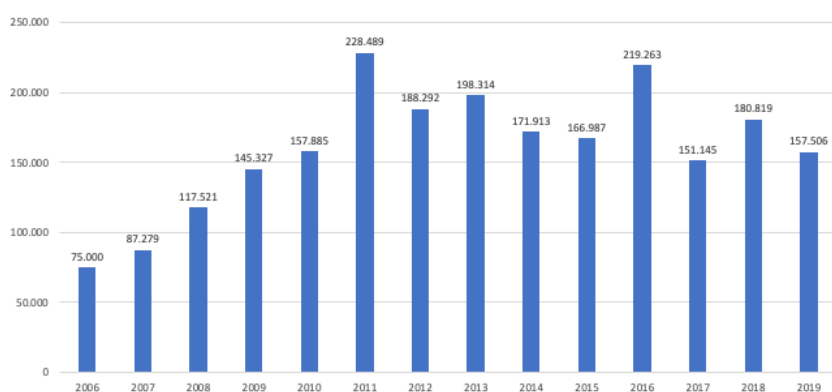
In 2017, the Matching Gift Fund began working with CyberGrants, a new Matching Gift vendor, to create a more streamlined user experience within the Matching portal. While US gift matching has enjoyed a relatively smooth and streamlined process, we have found that CyberGrants' vetting process for non-US donations is subject to onerous IRS vetting requirements for 501 (c)3 donations to international charities. This has caused considerable delays for the roughly 10% of non-US matches, which, in the long run threatens to undermine the Elsevier Foundation's reputation and goodwill for non-US employees.

In 2020, the Foundation team will assess the impact of the non-US matching program and the feasibility of continuing to offer this service for non-US employees in the current format. Options include allocating the budget to disaster relief or charities of employee choice. A second option is to move non-US matches via CyberGrants to a corporate funding stream, which has less onerous vetting guidelines. Finally, a third option, which also involves moving to a corporate funding stream, enables non-US Head of Houses to match office fundraising donations directly through their local ReCares volunteer chapters.

“The Matching Gift makes it possible for colleagues to play a positive role in their local and global communities. Whether colleagues are doing charity runs or holding book sales, fashion days, pub quizzes or simply giving quietly under-the-radar, Elsevier employees' generosity is overwhelming and their fundraising impressive.”

— YLANN SCHEMM, Director, The Elsevier Foundation

MATCHING GIFT 2006-2019



## Breakdown of 2019 Gift Matching

### US Gift Matching

- Individual level: \$69,993
- Office level: \$55,310

### International Gift Matching

- Individual: \$12,328
- Office level: \$17,965

### Admin costs

- \$44,187

## OVERVIEW OF MATCHING GIFT EXPENDITURES

The table presents an overview of over a decade of Gift Matching. The spike in 2011 reflects a large scale response to the earthquake and Fukushima disaster relief efforts in Japan; while the spike in 2016 was due to an additional \$20,000 in disaster relief to the Red Cross for the Louisiana flooding. The US matches also continue to comprise about 90% of all matches.



Above: Longtime Elsevier employee, Gina Walker crosses the finish line after a 60km walk for breast cancer charity, "A Sister's Hope". Over the past 9 years, Gina has been a staunch advocate tapping the Matching Gift Fund to help her raise funds for the charity in vital funding for research in the Netherlands and the US. (© Gina Walker)



Left: The Elsevier Amsterdam Universus team, one of the many Employees Resource Groups, organizes sport events for colleagues and used the Matching Gift program to raise funds for KiKa, the only Dutch charity foundation that brings in funds for research for childhood cancers. (© Nienke Dokter)





# III. Research4Life

Over the past two decades, Research4Life (R4L) has worked to bridge the digital divide, providing free or low-cost access to research for publicly funded institutions in the world's least resourced countries.

As a unique public-private partnership between UN agencies, universities and publishers, it aims to reduce the knowledge gap, stimulating productive and effective research, and promoting international collaborative research. Research4Life's offer is articulated in five programs – Hinari, AGORA, OARE, ARDI and GOALI – that provide developing countries with free or low-cost access to academic and professional peer-reviewed content online in the fields of health, agriculture, environment, applied sciences and legal information.

Research4Life is central to Elsevier's goal of achieving universal access to research information: as a founding and driving partner, Elsevier contributes over a quarter of the peer reviewed resources in Research4Life, encompassing databases such as Science Direct, Scopus and most recently Embase. In addition, all gold open access journals published by Elsevier are included in the Research4Life open access eligibility program, offering authors APC waivers or discounts.



## RESEARCH4LIFE GOVERNANCE

During the annual General Partners Meeting, partners review and discuss Research4Life's ongoing progress and impact on access to research in developing countries. The Executive Council represents the UN agencies and key publishing, university and nonprofit partner representatives. They make strategic and operational decisions and appoint taskforces to address critical partnership needs: Capacity Development, Communications and Marketing, Eligibility, Finance, Fundraising and Technology.

(Above: Research4Life General Partners Meeting. Geneva, July 2019. / Copyright: WIPO. Photo: Emmanuel Berrod.)

## Research4Life in numbers

106,000+ total resources

23,500+ journals

86,000+ books

120+ other information resources

10,000+ registered institutions

125+ countries

160+ publishers partners

5 UN Agencies

## Our unique contributions

The Elsevier Foundation contributes important resources to Research4Life information literacy capacity building:

- Online through the FAO-led MOOC for virtual training, which offers modules on different information literacy topics and training on how to effectively use the different Research4Life programs.
- A decade of support for the MLA Librarians without Borders® program providing face to face programs. Since 2016, we have supported additional Research4Life Grants, awarded annually for in-country train-the-trainer workshops.

Ylann Schemm, Director of the Elsevier Foundation has worked with Research4Life since 2009 and currently serves as Vice-Chair of Research4Life's governing Executive Council, taking up the role of partnership Chair in July 2020. Domiziana Francescon, Elsevier Foundation Program Officer, is the Co-Chair of the Communications and Marketing taskforce, which works to boost the visibility of Research4Life through projects such as online campaigns, webinars, bylined articles and press releases. In addition, colleagues throughout Elsevier are involved in a range of Research4Life taskforces including eligibility, fundraising, technology, metrics and training.



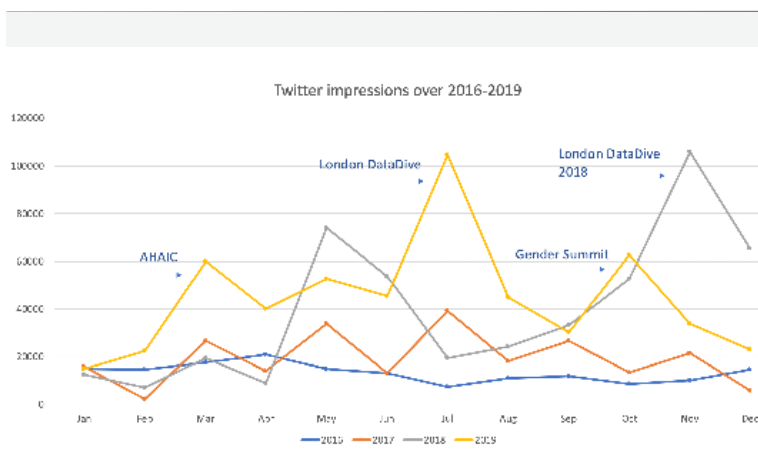
# IV. Media Outreach

## External coverage

Creating visibility for our Elsevier Foundation partnerships and projects is one of our core priorities. Our goal is to raise awareness around the issues and partners we support and to connect as directly as possible with our communities. We target traditional or ‘earned’ media through pitches and press releases, with a total of 16 articles in 2019 from a range of outlets including Nature Middle East, the BBC and Al Jazeera.

Though traditional media remains challenging given our focus on ‘good news’ stories which have a harder time competing for media attention, each year we receive major attention for our OWSD-Elsevier Foundation Women Scientists in Developing Countries Award program from top tier mainstream media.

In addition, we produced a steady series of articles in Elsevier Connect, Elsevier’s online news magazine with a monthly readership of 150-200,000 unique visitors a month. Over the course of 2016 to 2020, we wrote 56 articles for Elsevier Connect covering our partnerships: 15 in 2019, 11 in 2018, 14 in 2017 and 16 in 2016. Finally, we actively leverage our social media and website channels to showcase our partnerships and projects throughout the year.



## UNDERSTANDING OUR SOCIAL MEDIA IMPACT

We have found that better twitter results are achieved when we collaborate with colleagues across Elsevier who are also conducting social media campaigns. Examples of this include outreach around the Green & Sustainable Chemistry Challenge with Elsevier’s Chemistry Journals team and tapping Elsevier’s communications expertise during the OWSD-EF Awards for Women in Science in the Developing World. In addition, Twitter impressions and engagement rise when posts are tied to a specific event and highlight partners, further amplifying our reach. Successful examples include: the Gender Summits, the EF-OWSD Women in Science Awards and the SDG Inspiration Day.

## Website

We strive to maintain a dynamic website by posting content on a weekly basis. Our website is supported by WordPress, an open source content management system, incurring few costs beyond hosting and occasional wireframe updates. We recently added a new feature on our website to explore topics, articles, blog posts and partnerships by specific UN SDGs — fostering a narrative centred around these global goals. Our website has an average of 604 visitors/week, with the majority of visitors coming from the US, Canada and the UK, followed by Nigeria and The Netherlands. This geographical spread is in line with the efforts made in 2019 striving to reach audiences in developed countries and raise the profile of the Foundation among like-minded organizations.

## Social Media

Social media brings its own rewards and special challenges. Maintaining active channels, in addition to a dynamic website, is labor intensive for a small team and requires careful prioritization. However, we believe that the channels which we have developed provide us with a direct connection to our communities.

### LinkedIn

In 2020, we launched the Foundation’s official LinkedIn page. As the majority of our partners and stakeholders use LinkedIn, we believe that creating a profile allows us to extend our reach and engagement with our target audiences.

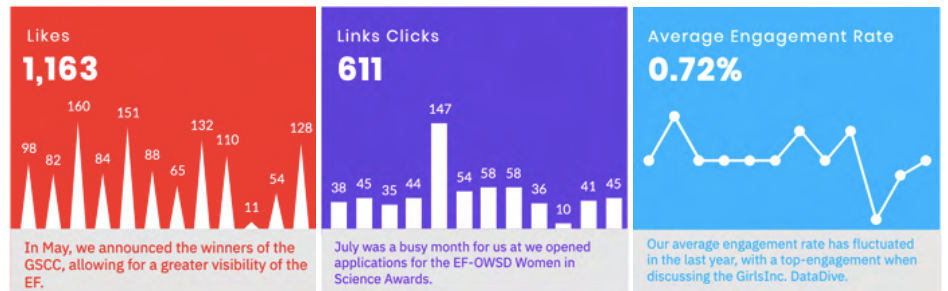
LinkedIn has proven to be extremely valuable for non-profit organizations due to its large audience of business-to-business professionals who are looking for connections and relevant content. Our goal is to become a regular provider of sustainability, inclusive research, health and technology content. Given Elsevier’s significant presence on the platform, we have set up a showcase page linked to the main Elsevier account

### Twitter

2019 has been an important year for the Foundation’s Twitter channel as we increased our social media engagement with partners and audience during events such as the SDG Inspiration Day, the EU Gender Summit and the OWSD-EF Awards for Women in Science in the Developing World amongst others. By live tweeting these events, we were able to intensify interaction with audiences, increasing our Twitter impressions 17% overall from 2019

to 2020 and reaching a total of 581,100 impressions over the course of the year.

We were also able to maintain a stable engagement rate throughout 2019, with the exception of the December holiday period. In 2020, we plan to further enhance engagement with our audiences by tapping more into our partners' content and sharing expertise on sustainability and inclusive health and research through a targeted Twitter plan.



*Note: Impressions on Twitter refer to the total number of times the tweet has been seen, including in followers' timeline and in search results. Engagement rates on the other hand showcase the total number of times a user interacted with the tweet.*

After being awarded the OWSD-Elsevier Foundation Awards for Women Scientists in the Developing World, 2019 winner Narel Paniagua Zambrana from Bolivia received an invitation to meet president Evo Morales Ayma. "The news the prize has created in my country has been really impressive", Narel commented. "I was able to show the President my publications, and he indicated his willingness to collaborate more for the advancement of science in Bolivia."



### MEDIA COVERAGE

We have collected all media coverage on our website. Scan the QR code below to find all articles and press releases that were published in 2019 around the Foundation partnerships, both from us and from our partners.

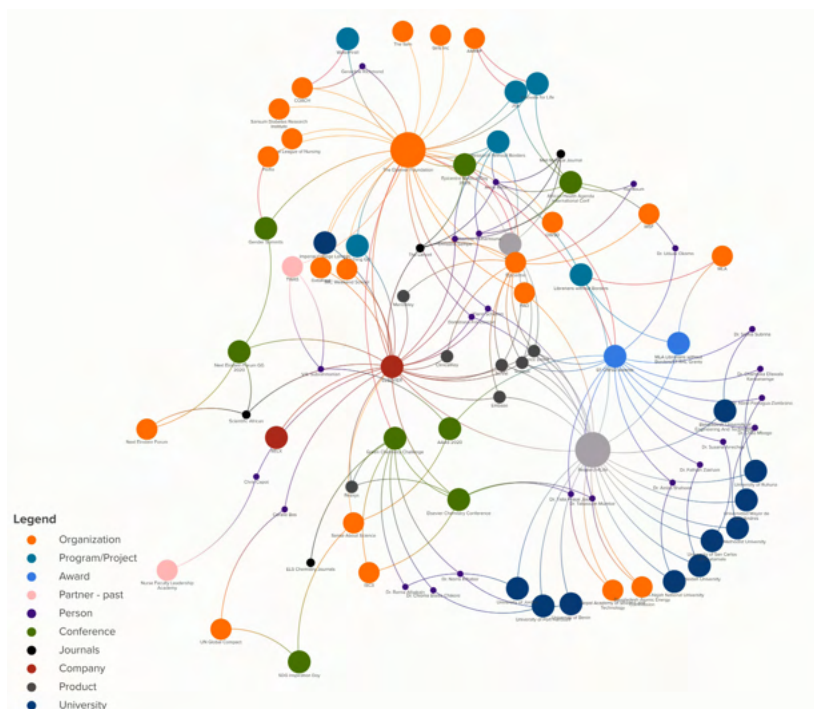


# V. Working with Partners

The Elsevier Foundation operates within a dynamic system of partnerships in continuous interaction with each other.

The Foundation is uniquely positioned to play a convening role, linking partners who work in similar areas with the aim of maximizing impact and supporting the UN Sustainable Development Goals.

By creating synergies and joining forces with other organizations and stakeholders, we can augment our capacity and grow our positive impact in inclusive health and research.

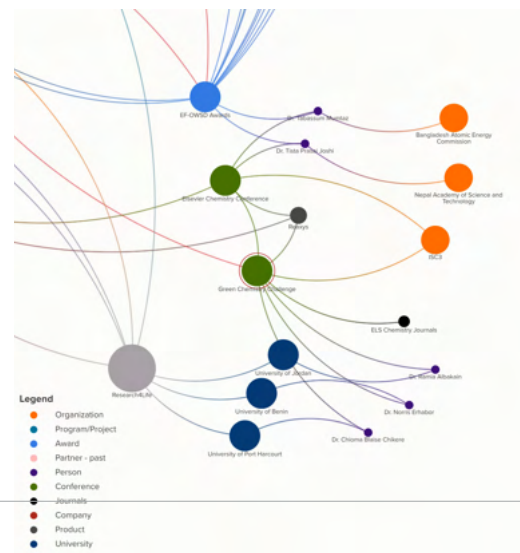
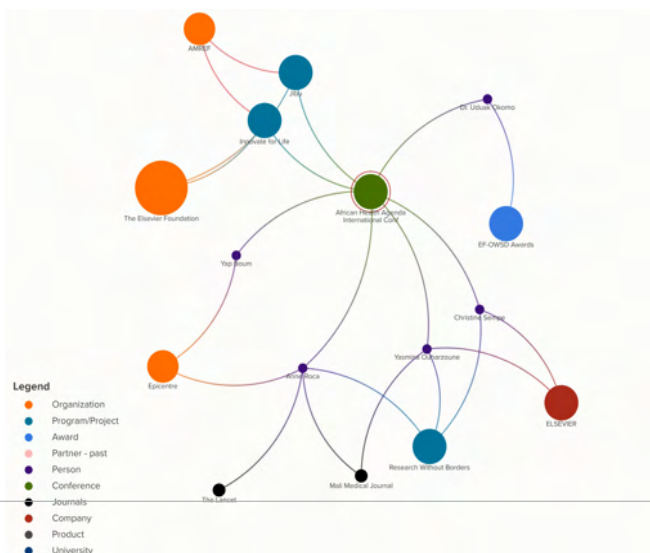


## Africa Health Agenda International Conference

At Amref's AHAIC Conference in Kigali, Rwanda in March 2019, we delivered Twitter campaigns to share 5 different partner panels and workshops. Uduak Okomo, winner of the 2019 OWSD-Elsevier Foundation Awards, was featured in a "Research to Policy" panel with Anne Roca (*The Lancet*) and Yap Boum (Epicentre Niger Research Centre) who also served as speakers in our "Catalyzing Health Tech Solutions in Africa" discussion with Amref, Innovate for Life and Iris de Graaf of IFC's Tech Emerge Health Africa program. In addition, Research without Borders volunteers, Christine Aime-Sempe, Yasmina Ourharzoune worked with Dr. Pius Kabututu and Dr. Ernest Sumaili, editors from the *Annales Africaines de Medecine* journal to deliver a Francophone panel on multilingualism in science communication and a journal training workshop.

## The EF-ISC<sub>3</sub> Green & Sustainable Chemistry Challenge

The Challenge is jointly run by the Elsevier Foundation, Elsevier's chemistry journals and ISC<sub>3</sub>. The Challenge has enabled us to both strengthen our connection with Elsevier's journals, and to develop new networks with industry partners in an area we hadn't previously explored. In 2020 Reaxys, Elsevier's chemistry platform supporting researchers with compound properties and chemical reaction data, will be offered in-kind to the Challenges' winners for two years. In the past editions of the Elsevier Green & Sustainable Chemistry Conference, we've invited previous winners of the EF-OWSD Awards for Women Scientists to share their research – establishing further networks between them and international academia. It's also interesting to note that most of the Challenge's winners are from institutions registered in R4L, which can prove useful to showcase success stories from researchers in developing countries.





# VI. Financial Overview

## 2019-2020 PROGRAM ALLOCATIONS

		2019	2020
<b>HEALTH &amp; INNOVATION</b>			
Sigma Theta Tau International	Nursing Faculty Leadership Academy	\$100,000	
MSF/Doctors without Borders	Epicentre Niger Research Centre	\$100,000	\$100,000
Amref Health Africa	Jibu mLearning program	\$0 (no cost extension)	
Amref Health Africa	Innovate for Life	\$50,000	\$50,000
Sansum Diabetes Institute	Latino Diabetes Citizen Scientists		\$60,000 (pilot year)
National League for Nursing	NLN/Elsevier HBCU Innovation in Technology Excellence program		\$60,000 (pilot year)
<b>RESEARCH IN DEVELOPING COUNTRIES</b>			
The Food and Agriculture Organization of the United Nations	Research4Life eLearning Program	\$43,000	—
The Elsevier Foundation	Green & Sustainable Chemistry Challenge	\$60,000	\$60,000
The Elsevier Foundation	Skills-based volunteering, including Research without Borders with AJPP	\$40,000	\$40,000
Medical Library Association	Librarians without Borders/ Research4Life training	\$45,000	\$45,000
<b>DIVERSITY IN STM</b>			
IMC Weekend School	Amsterdam health, science and technology outreach	\$33,000	\$25,000
Imperial College London	White City Maker Challenge	\$50,000	\$50,000
Girls Inc. of New York City	Pre-G3: The Elsevier Foundation Data Analytics Preparatory Program	\$100,000	\$100,000
OWSD	Awards for Women in Science	\$111,000	\$86,000
COACH University of Oregon	Water First!	\$70,000	\$70,000
DataKind	London DataDive	\$25,000	—
The ITEM	Philadelphia pilot	\$15,000	
<b>Matching Gift</b>		\$157,506	\$200,000
<b>TOTAL</b>		<b>\$999,506</b>	<b>\$971,000</b>

# THE ELSEVIER FOUNDATION BOARD BIOGRAPHIES



**Yuko Harayama**  
**Former Executive Member**  
**Council for Science & Technology Policy**  
Cabinet Office of Japan

Dr. Yuko Harayama is the former Executive Member of the Council for Science and Technology Policy, Cabinet Office of Japan. She is the former Deputy Director of the Directorate for Science, Technology and Innovation, OECD. She is a Legion D'Honneur recipient (Chevalier), and was awarded honorary doctorate from the University of Neuchâtel. Previously, she was Professor in the Department of Management Science and Technology at the Graduate School of Engineering of Tohoku University. She holds a Ph.D. in education sciences and a Ph.D. in economics, both from the University of Geneva.



**Nikunj Jinsi**  
**Former Global Head International Finance Corporation**  
Venture Capital group

Nikunj Jinsi has over 20 years of venture capital investment experience, in developing markets. Mr Jinsi currently advises several global finance institutions on developing their venture programs for emerging markets. In addition, Mr Jinsi is currently involved in founding multiple innovative investment platforms, each leveraging his unique investment background in developing markets. Until mid-2019, Mr. Jinsi spent 16 years with the International Finance Corporation (IFC) where he built the largest EM focused venture platform, in terms of footprint coverage, and headed a team of over 30 investment professionals in eight locations globally. He has held board positions in several leading technology companies in Emerging Markets and been involved in 12 investments that have gone on to be unicorns. Mr Jinsi is currently the founding Chairman of EMPEA's Venture Capital chapter. Prior to joining IFC in Washington DC, Mr. Jinsi spent nine years living and working in Asia. He was a Managing Director for one of Asia's leading venture funds. Earlier he spent four years in the Asian TMT investment banking industry providing M&A and corporate finance services to clients throughout the region. In addition, Mr Jinsi was the co-founder of South East Asia's largest independent marketing communications agency, which was successfully sold to the Omnicom Group. Mr. Jinsi started his career working as a Project Engineer/Manager at KPN, in The Hague, The Netherlands. Mr Jinsi, a Dutch national, has an MBA degree from Stanford University, which he attended as a Fulbright Scholar, and an M Sc. degree in Electrical Engineering, from Delft University of Technology, The Netherlands.



**Beverly Malone**  
**CEO**  
National League for Nursing

Beverly Malone's tenure at the NLN has been marked by a retooling of the League's mission to reflect the core values of caring, diversity, integrity and excellence, and a focus on advancing the health of the nation and the global community. She was ranked amongst the 100 Most Influential People in Healthcare by Modern Healthcare magazine in 2010 and 2015; and in 2016 she claimed 39<sup>th</sup> place amongst leading policy-makers, activists, health care professionals and corporate figures in health care, insurance and pharmaceutical industries. Within the last several years, Dr. Malone was elected to the Institute of Medicine and tapped to join the board of the Kaiser Family Foundation. Dr. Malone served on the Institute of Medicine's Forum on the Future of Nursing Education, contributing to IOM's groundbreaking report, "The Future of Nursing: Leading Change, Advancing Health," and on the Advisory Committee on Minority Health, a federal panel established to advise the secretary of Health and Human Services. Her career has mixed policy, education, administration and clinical practice. Dr. Malone has worked as a surgical staff nurse, clinical nurse specialist, director of nursing and assistant administrator of nursing. In 1996, she was elected to two terms as president of the American Nurses Association. In 2000, she became deputy assistant secretary for health within the US Department of Health and Human Services, following 4 years of service on President Bill Clinton's Advisory Commission on Consumer Protection and Quality in the Healthcare Industry. Prior to joining the NLN, Dr. Malone was general secretary of the Royal College of Nursing, the United Kingdom's largest professional union of nurses, from June 2001 to January 2007. She also served between 2002 and 2006, as a member of the UK delegation to the World Health Assembly; of the Commonwealth Nurses Federation; and of the Higher Education Funding Council for England.



**Emilie Marcus**  
**Executive Strategy**  
**Officer**  
**David Geffen School**  
**of Medicine**  
UCLA

Emilie Marcus is the Executive Strategy Officer at the UCLA David Geffen School of Medicine where she is responsible for working with the leadership of the school and hospital system to drive alignment between medical and graduate school education, biomedical research and clinical care for optimized health outcomes. Prior to joining UCLA in 2018, Emilie spent 20 years at Cell Press with the last 7 years as CEO and the last 15 years as Editor-in-Chief of the journal Cell. Under her leadership, Cell Press expanded beyond biomedicine to become an all-science publisher, launching successful journals in chemistry and energy and the new interdisciplinary journal iScience. She also introduced industry-leading innovations in peer-review, methods reporting to support reproducibility and expediting access to early versions of articles that are under consideration for publication. As Editor-in-Chief of Cell, Emilie was responsible for setting the long-term strategy for the journal and assessing cutting-edge high-impact conceptual advances in biomedical research globally. She is often looked to as a thought leader on issues facing scientific publishing including the value and robustness of the peer-review process, handling potential conflicts, scientific ethics and misconduct, supporting rigor and reproducibility, the impact of new information technologies and new publishing business models, and the uses and abuses of the impact factor as a measure of quality. Prior to joining Cell Press, Emilie had a successful research career, first at Yale University, where she received her PhD in Biology/Neuroscience in 1993, and then at the Salk Institute and University of California at San Diego. Emilie was also Editor of Neuron from 2001 to 2003.



**Geraldine Richmond**  
**Presidential Chair in**  
**Science**  
**Professor of**  
**Chemistry**  
University of Oregon

Prof. Geraldine Richmond is the Presidential Chair in Science and Professor of Chemistry at the University of Oregon. Her research has relevance to current issues in energy production, environmental remediation and atmospheric chemistry. Her teaching activities in the classroom and beyond focus on science literacy, science policy and building a strong and diverse science and engineering workforce in the U.S. and globally. Throughout her career she has been actively involved in efforts to increase the number and success of women in science and engineering. Richmond is a member of the National Academy of Sciences, the American Academy of Arts and Sciences and is a Fellow of the American Chemical Society (ACS), the American Physical Society (APS), the Association for the Advancement of Science (AAAS) and the Association for Women in Science. In 2015 Richmond served her term as President of AAAS and is currently the Chair of the Board of AAAS. She is also currently serving as a member of the National Science Board (President Obama appointee). She is the founding and current director of COACH, a grass-roots organization formed in 1998 that has helped in the career advancement of thousands of scientists and engineers in the U.S., Asia, Africa and Latin America.



# EX OFFICIO BOARD BIOGRAPHIES



**Suzanne BeDell**  
**Managing Director**  
**Education, Reference**  
**and Continuity**  
Elsevier

Suzanne BeDell joined Elsevier as Managing Director in September 2010. She has been a book publishing and information industry leader for almost 30 years focusing on the intersection of print and digital delivery for much of her career. Prior to joining Elsevier, she worked for ProQuest (a library aggregator) for 9 years where she led the development of the largest offering of aggregated books and journals for academic libraries. Before that, Suzanne was Senior Vice President of Internet Products at Thomson Healthcare and Director of Electronic Product Development for Mosby. She also held a variety of positions in McGraw-Hill's College Division, including publisher of Primis, the first electronic custom publishing system for textbooks.



**Márcia Balisciano**  
**Director**  
**Corporate**  
**Responsibility**  
RELX

Márcia Balisciano, MBE, Ph.D., leads global corporate responsibility (CR) for RELX Group. Engaging colleagues throughout the business, she works to ensure RELX Group's non-financial performance is a consistent source of competitive advantage and stakeholder confidence across key markets. She represents RELX Group on the UN Global Compact and serves on the steering group for the United Kingdom. She is a member of the Conference Board's Sustainability Council and Global Business Women Leaders Council. She recently joined the Child Rescue Alert Development Board, a partnership between the UK National Crime Agency, the charity Missing People and Groupcall. She is founding director of London museum and educational facility, Benjamin Franklin House and was previously Special Advisor to the American Chamber of Commerce. A Fellow of the Royal Society of Arts, she holds an MA in International Relations from the University of Chicago and a PhD in Economic History from the London School of Economics. She was made a Member of the British Empire (MBE) in the Queen's 2007 Birthday Honours List.



**Kumsal Bayazit**  
**CEO**  
Elsevier

Kumsal Bayazit was appointed Chief Executive Officer of Elsevier in February 2019. She has held multiple positions with RELX Group since 2004, most recently as Regional President Europe, Middle East and Africa at Reed Exhibitions. Before joining Reed Exhibitions in 2016, Kumsal was RELX Group's Chief Strategy Officer, responsible for driving strategic initiatives, technology strategy and portfolio management. Prior to that she served in several operational and strategic roles with LexisNexis. Kumsal also chairs the Technology Forum at RELX Group and is a non-executive director at LSL Property Services plc. Prior to joining RELX Group in 2004, Kumsal spent several years at Bain & Company in their New York, Los Angeles, Johannesburg and Sydney offices. Kumsal earned an MBA from Harvard Business School and is a graduate of University of California at Berkeley where she received a Bachelor's degree in Economics with honors.



**Youngsuk "YS" Chi**  
**Chairman,**  
Elsevier  
**Director of Corporate**  
**Affairs**  
RELX  
**President**  
The Elsevier  
Foundation

Youngsuk 'YS' Chi is an international businessman and a leader in the media and technology industry, and currently serves Elsevier and RELX Group in several different capacities. In his primary role as head of Corporate Affairs for RELX Group, he is responsible for government affairs, corporate communications, corporate responsibility, and Asia strategy for Elsevier's parent company. As non-executive Chairman of Elsevier, he works directly with governments, Elsevier customers and in industry associations worldwide. Mr. Chi also serves as President of the International Publishers Association, a global organization that represents the interests of more than 50 publishing industry association members from countries around the world. Early in his career, as Chief Operating Officer of Ingram Book Group, Mr. Chi founded Lightning Source, the first ever print-on-demand distributor and e-book services provider. After holding several senior executive positions at Ingram Book Group's parent company, he became President and Chief Operating Officer of Random House. Mr. Chi has also earned widespread respect for his ability to work across cultures. As founding Chairman of Random House Asia, he led efforts to make Random House the first foreign trade book publisher with local language publishing in Japan and Korea. Mr. Chi has served on numerous charitable, educational and industry boards, including Princeton University, Korean American Community Foundation and McCarter Theatre. He is also a member of the Executive Committee of the boards of Association of American Publishers and International Association of Scientific, Technical & Medical Publishers.



**John Danaher**  
**President**  
**Clinical Solutions**  
Elsevier

John Danaher, Elsevier's President, Clinical Solutions, is a prominent life-long leader and expert in health and the business of health. At Elsevier, he heads the Clinical Solutions business focused on improving patient outcomes through optimizing provider performance and patient engagement. Clinical Solutions is focused on delivering industry leading products focused on improving care at every stage in the patient journey. Previously he headed Elsevier's Education business and led the transformation from a traditional publisher to an educational digital solutions provider focused on improving student outcomes. Prior to joining Elsevier, John was President of the Schools of Health Sciences and Nursing at Kaplan. He brings a great depth of experience in digital media in health care and education from his time at Kaplan, Discovery Communications, and as executive vice president of WebMD and part of the early management team. John has deep domain expertise and a successful track-record in managing health information businesses. His experience, in both government and the private sector, extends beyond the US and into global markets, including assignments and experience with Japan, Pakistan, the UK and Australia.



**Esra Erkal**  
**Executive Vice**  
**President**  
**Global**  
**Communications**  
Elsevier

Esra is a senior corporate affairs executive with a career that spans healthcare, consumer and regulatory sectors. She joined Elsevier in December 2019 from Coty, the global beauty company, where she was Chief Corporate Affairs Officer. Prior to that, Esra spent over seven years at AstraZeneca as the Global Head of Communications, leading the engagement with a wide range of stakeholders in the research, healthcare and investor ecosystem, including the development of the company's community investment and sustainability strategy. Before joining AstraZeneca, Esra was an Executive Director of the Advertising Standards Authority in charge of Policy, Public Affairs and Communications, where she played a critical role in establishing internet regulation for the first time and transformed the way the watchdog works with industry to maintain responsible marketing standards. Previously, she was Head of Corporate Communications and External Affairs for the L'Oreal Group for seven years where she led the L'Oreal / UNESCO for Women in Science laureate programme. Prior to L'Oreal, Esra was Head of Corporate Affairs for Unilever. Esra is passionate about scientific progress and is a long-standing Trustee and Chairman of the British Skin Foundation, a charity dedicated to advancing research into skin cancer and skin health.

## TEAM BIOGRAPHIES



**Ylann Schemm**  
**Director**  
**The Elsevier**  
**Foundation**  
Elsevier

As the Elsevier Foundation's Director, Ylann Schemm drives technology-enabled partnerships to advance diversity in science, build research capacity and support global health around the world. She has been an integral part of the Foundation's growth since joining as a Program Officer in 2008. In 2019, Ylann was appointed the Vice Chair for the Executive Council of Research4Life, a UN-publisher partnership to bridge access gaps for researchers and doctors in developing countries. In addition, Ylann currently serves as Elsevier's Director of External Partnerships, building on 15 years in corporate relations and responsibility roles and focusing on key technology, gender and sustainability collaborations. Prior to joining Elsevier in 2005, Ylann held various roles in publishing and the non-profit sector, representing the European Platform for Dutch Education at the European Commission. She started her career as a writer and researcher for Time Life Books and holds an MA in Film & Television Studies from the University of Amsterdam and a BA, magna cum laude in English from Amherst College in Massachusetts. Ylann is both American and Dutch and based in Amsterdam.



**Domiziana**  
**Francescon**  
**Program Officer**  
**The Elsevier**  
**Foundation**  
Elsevier

Domiziana Francescon serves as the Elsevier Foundation's Program Officer and is a strong supporter of the company's Corporate Responsibility program. She also works on a number of Elsevier's externally focused partnerships, especially in sustainability and women in technology spaces. Additionally, Domiziana is the Co-Chair of the Communications team of Research4Life, a UN-publisher partnership to bridge access gaps for researchers and doctors in developing countries. Domiziana obtained a master's degree in Book and Digital Media Studies at Leiden University in the Netherlands, with a specialization in Publishing Studies.



**Maria Markova**  
**Treasurer**  
Elsevier

In her role as Elsevier Foundation treasurer, Maria Markova supports the funding of non-profit organizations around the world. Maria is a Finance Manager in Group Financial Planning and Analysis team at Elsevier, focusing on the Health side of business. She previously worked as a Business Controller for Corporate Functions at Elsevier and as a Senior Associate at PwC. Maria acquired her Master of Business Administration (MBA) degree at Oxford University and is a Chartered Management Accountant.



**Kenneth R.**  
**Thomson II**  
**Legal Council**  
RELX

Kenneth R. Thomson II was appointed as RELX Group General Counsel on October 1, 2011. In his role, he has global responsibility for the intellectual property, privacy, governance, compliance and securities law functions for RELX Group. Prior to serving in this capacity, Mr. Thomson served as the Executive Vice President and Global Chief Legal Officer for LexisNexis, an operating division of RELX Group.





# THE ELSEVIER FOUNDATION

For more information about the Elsevier Foundation, visit [elsevierfoundation.org](https://elsevierfoundation.org) and follow us on Twitter [@ElsFoundation](https://twitter.com/ElsFoundation)

*In the cover picture:*

*Dr. Fathiah Zakham, one of the winners of the 2020 OWSD-Elsevier Foundation Awards for Early-Career Women Scientists in the Developing World.*

