



2019 ANNUAL REPORT



MAWAZO INSTITUTE
WOMEN LEADING RESEARCH IN AFRICA

**Creating a world in
which the voices
and ideas of African
women help shape
the future of the
continent.**

- Dr. Rose M. Mutiso
CEO & Co-Founder of the Mawazo Institute

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Letter from the CEO

To our Mawazo family,

Writing this in the middle of an unexpected global crisis and the tragic loss of many lives as a result of the COVID-19 pandemic, it is my hope that this Report finds you well. As we try to understand and respond to a rapidly changing public health crisis impacting every sector of our society, Mawazo is committed to playing its role in the region's response. This includes doing our part to insulate both our team and beneficiaries from the impacts of COVID-19, supporting the ecosystem we work in, and serving as a source for locally-relevant, and much needed science communication. An approach that we have summarised in a statement on our website detailing our COVID-19 response for 2020.

Bearing all this in mind, I can't help but feel a renewed sense of pride for everything we accomplished in 2019. We not only expanded our dedicated team of staff, but also welcomed our inaugural board (pg 36). With the support of this expanded team, we were able to make significant progress in deepening our programmatic reach, fundraising portfolio and operational strategies. Changes that have helped make Mawazo nimbler and more resilient this year.

In 2019, we also made several foundational advancements and graduated the first cohort of PhD Scholars—a group of 10 young, innovative Kenyan women whose research is tackling pressing local issues from climate change, to rapid urbanisation, to the threat of zoonotic viruses (pg 12). I remain encouraged by the efforts of our 2018 PhD Scholars who since completing their fellowship year in May 2019, have continued to soar from success to success.

With our support, they have received additional grants to continue their research and professional training, attracted awards and recognition from their peers, and for some, completed their doctoral degrees, establishing themselves firmly in Kenya's



research sector. In a country in which only 11% of PhD students graduate on time, this is no small feat. In the 'Our Ideas on the Move' section, we paint a picture of our PhD Scholars' contributions to the global scientific community, as well as Mawazo's own reach, helping us visualize what's possible when we invest in young women in East Africa (pg 8).

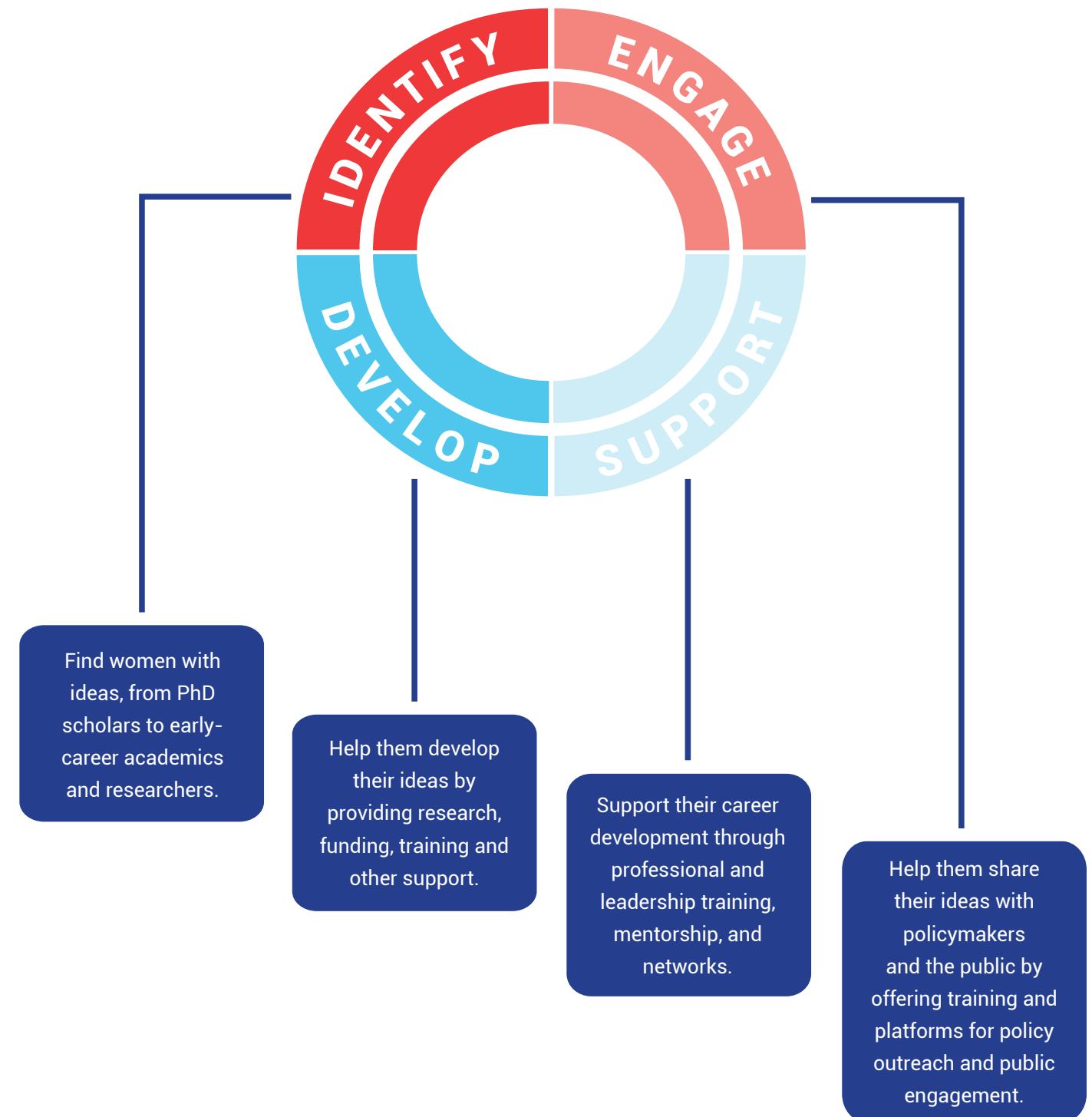
Looking back at 2019, I can say that the community of people supporting Mawazo not only grew, but also increased in depth. Growth of this kind is not always guaranteed, but always welcome. From the bottom of my heart, I thank you all for believing in our vision and committing your support to it.

Rose M. Mutiso, Ph.D.
CEO and Co-Founder

Our Approach

Leveraging academia and women to generate new ideas for Africa

As an organisation founded by two young scientists, Mawazo views science as a powerful tool for transforming society and culture, and academia as a source for the fresh ideas needed to tackle Africa's big challenges. At Mawazo, we:



Our Values

Collaboration

We are collaborative and partnership driven – as a team and within our ecosystem.

Respect

We treat everyone with dignity.

Integrity

We are principled, transparent, and consistent in all we do.

Purpose

We are bold and ambitious. We work hard and with conviction. We are optimistic about our work and its impact.

Independence

Our grantees set their own research agendas and their findings are not influenced by funders, or others

Excellence

We raise the standard through creativity, innovation, and rigor. We are curious, adaptable, value growth, and are continually learning.

About Mawazo

An African and woman-led organisation, with unique insights into the challenges that we seek to address.

The Mawazo Institute is non-profit research institute based in Nairobi, Kenya. In Kiswahili, “mawazo” means “ideas.” Our mission to support the next generation of female scholars and thought leaders in East Africa, and to get policymakers and the general public engaged with their work. We envision a world in which the ideas and voices of African women are amplified to shape the future of the continent.

Our Founder's Story

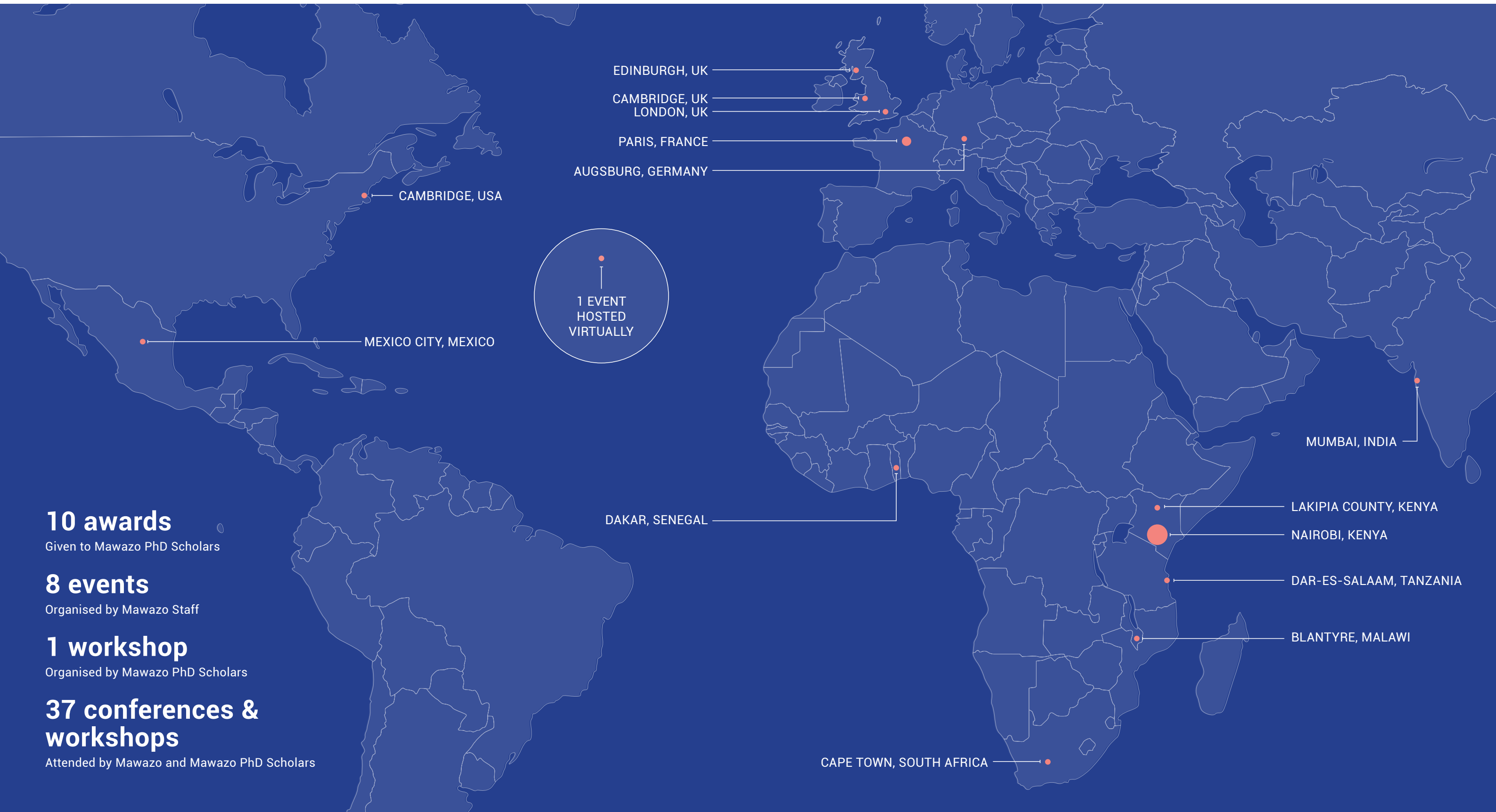
Mawazo was founded in 2017 by Dr. Rose M. Mutiso, a Materials Scientist by training, and Rachel Strohm, a Social Scientist, who met while pursuing undergraduate studies at Dartmouth College in New Hampshire, USA. As they advanced in their careers, both Rose and Rachel found that they were fewer women, in particular African women, engaged in high level policy discussions, important public debates, and academic leadership. Given the gendered-impacts of many of today's socio-economic challenges—from food and water security, to energy access, to education, health care, and migration—they both felt an urgent need to ensure that women's talents, ideas, perspectives, and skills were infused into knowledge sectors.

With a focus on African development, our founders believe that young, dynamic, African women are key to unlocking a more secure and equitable future for the continent, and that academia can help generate new ideas for the continent. This is why Mawazo invests in the next generation of African women, supporting early-career researchers to become thought leaders and changemakers in academia, industry, civil society, and the public sector.



Our Ideas On The Move

Mawazo's staff, scholars and board are part of a global community of researchers and subject-matter experts who are finding platforms to share their ideas and research, and connect with other like-minded individuals.



10 awards

Given to Mawazo PhD Scholars

8 events

Organised by Mawazo Staff

1 workshop

Organised by Mawazo PhD Scholars

37 conferences & workshops

Attended by Mawazo and Mawazo PhD Scholars



Our Programmes

Providing academic and career support to early career female and African researchers

Our programmes provide resources to academics, researchers, and people interested in science throughout Sub-Saharan Africa. We focus on helping young African women to launch careers in academia and research, working with them to build their core expertise and equipping them to be public-facing scholars who are poised to influence policy and public discourse with their ideas. Our core programmes target Kenya and the East African region, complementing the work of other national, regional, and global actors offering support to African researchers, universities, and research institutions.



The PhD Scholars Programme provides research funding and professional development training to young women pursuing doctoral research in STEM and the social sciences in East Africa.



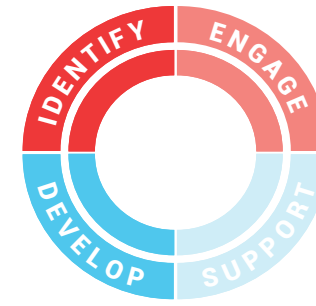
The Mawazo Learning Exchange (formerly the 'Training & Resources' Programme) is our open online platform that provides e-learning materials and other free digital resources targeted at early-career African researchers.



The Policy Programme connects our grantees to policymakers, encouraging evidence-informed decision making and inserting the voices of young African women into pressing policy discussions.



The Public Engagement Programme creates accessible and interesting ways for the public to learn about research produced by our fellows and other local experts, enhancing public understanding of complex issues and increasing the visibility of female experts in society.



The PhD Scholar's Programme

On average, women make up less than one-third of researchers in African countries, and much less in many countries like Kenya where they only make up 25% of researchers¹. The result is that women's perspectives continue to be locked out of knowledge production and problem-solving on many issues. To help remedy this under-representation, Mawazo launched the PhD Scholars Programme in 2018.

The programme provides a one-year, non-residential fellowship for African women who are under 40 and pursuing PhD studies in East Africa, within any discipline in STEM and the social sciences. Scholars also receive grants to support their research, conference travel, and access to ongoing training for their professional development. By supporting innovative young women in this way, Mawazo hopes to amplify our Scholars' engaging research, and position them as leading experts, thinkers, and innovators who are finding homegrown solutions to local development challenges.

In 2019, we graduated our first cohort of PhD Scholars who were selected from 170 applicants

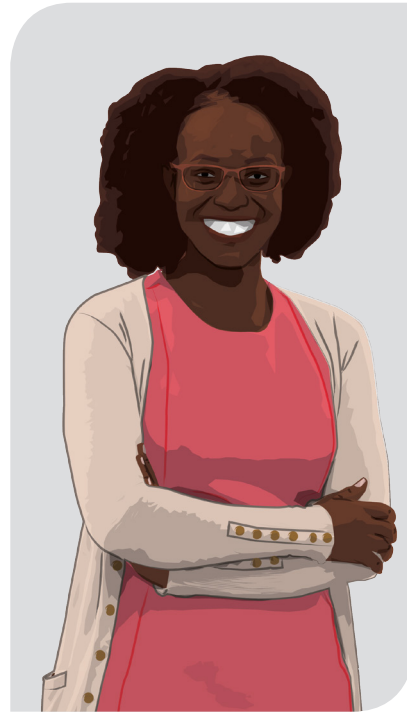
from six African countries. Our 10 PhD Scholars are pioneering knowledge around health outcomes, urban development, climate change, migration, cultural preservation, and agriculture, with research that is both urgent and compelling.

Over the course of the programme year, Mawazo disbursed over \$86,000 in grants and stipends to Scholars, providing a much-needed source of local funding for researchers. We also provided the PhD Scholars with invaluable mentorship and networking opportunities, while attracting new funding to the programme that will help ensure its sustainability.

We are encouraged by the results from our first year and look forward to welcoming the second cohort of PhD Scholars, supported by funding from the William and Flora Hewlett Foundation and the International Development Research Centre (IDRC). Over the next few pages, we invite you to meet our 2018-2019 PhD Scholars.

¹ UNESCO. 2018. "Women in Science Fact Sheet No 51"

2018-2019 Mawazo PhD Scholars



MARILYN RONO

Marilyn Ronoh is a mathematician whose research uses mathematical models to understand the impact of comprehensive knowledge, HIV/AIDS testing, condom use and antiretroviral therapy on the transmission dynamics of the disease among adolescents and young adults in Kenya. Her research is helping develop more accurate projections for HIV/AIDS transmission, that can be used by government and other stakeholders to allocate resources more effectively in the fight against the spread of the disease.



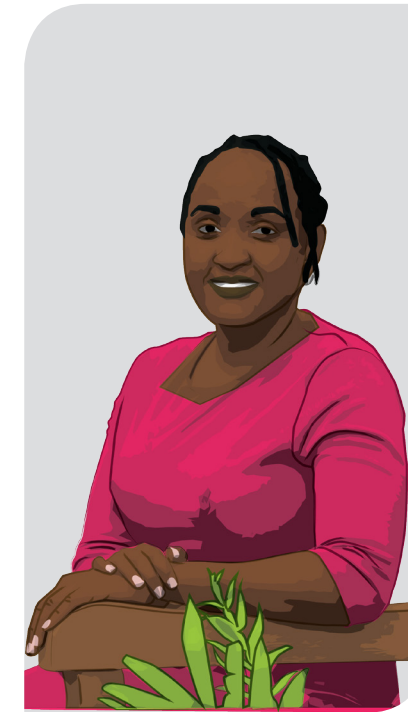
PERIS AMBALA

Peris Ambala is a molecular virologist whose research is helping improve Kenya's capacity to detect, prevent and control for the spread of zoonotic viruses. Peris uses molecular tools to study the characteristics of filoviruses, which are a group of viruses, including Ebola and Marburg, that are known to cause haemorrhagic fever in humans. Her research is helping fill important knowledge gaps to support the prevention and control of filoviruses in potentially susceptible regions of Kenya, such as Laikipia County.



MELISA ALLELA

Melisa Allela is an interactive media design maven working on a groundbreaking project that uses new technologies to preserve Africa's intangible cultural heritage, including oral storytelling. Through her research, Melisa studies and creates animation systems that use interactive narratives, virtual reality, and animated virtual humans. These kinds of systems can be used to relay the unique features of African oral storytelling in a digital medium, ensuring this type of orature is preserved for future generations.



TERESIA NJIHIA

Teresiah Njihia is an entomologist whose research could change entire economies in the East African region, where farmers are struggling to maintain the region's global position as a major contributor to the coffee trade market in part due to an increase of the coffee crop pest, the Antestia bug. Teresiah's research supports the development of affordable and non-toxic pesticides for controlling the bug (and other pests) by studying the chemical cues involved in interspecific (plant-insect) and intraspecific (insect-insect) communication of pests.



JUDITH KOSKEY

Judith Koskey is an environmental scientist investigating the consequences of human activities on one of Kenya's critical watersheds, the Njoro River. Her research uses various measures to analyse the state of environmental degradation in the watershed. When completed, Judith's research will also offer recommendations for effective approaches to conserving the watershed and improving its management, while still securing the livelihoods of local communities.

2018-2019 Mawazo PhD Scholars



WINNIE NYAMBOKI

Winnie Nyamboki is a health economist researching the relationship between disease and individuals' propensity to contribute to the labour force in Kenya. Specifically, she is gathering data on the four major classes of illness and injury in Kenya, and how they affect labour market participation. Her research will provide sound economic analysis on their burden, contributing important evidence for policy interventions at both the national and county levels.



ELIZABETH MUTUA

Elizabeth Mutua is a computer scientist who wants to help turn Nairobi into a Smart City using urban planning data mining. Her research is interested in tackling the city's traffic congestion, which remains a major issue despite the introduction of new road systems. Elizabeth is creating a dynamic traffic flow model that incorporates real-world data from Nairobi's network of smart traffic cameras, improving predictability and easing congestion. She hopes her model can also be used in other cities facing similar challenges.



JACQUELINE OWIGO

Jacqueline Owigo is a migration policy expert whose research highlights the experiences of Somali returnees – including deportees, internally displaced persons (IDPs), disengaged combatants, returning refugees and diasporans – in order to identify areas for policy intervention that may be effective in improving reintegration outcomes globally. Her findings, so far, raise vital policy issues in addressing the challenges of displacement and forced migration in the Horn of Africa.



SUSAN GICHUNA

Susan Gichuna is a sustainable urban development expert who dreams of well functioning cities. Her research studies how increasing climate variability, such as flooding and extreme heat, affect urban commuter travel behaviour in Nairobi. Through her study, which examines individual, rather than infrastructural adaptations to climate change, Susan hopes to inform future planning and policy that supports enhanced climate resilience in Kenya's urban transportation sector.



EDINAH SONG'ORO

Edinah Song'oro is a geneticist whose research studies the prevalence of anti-microbial resistant genes in various environmental sites in Kenya. Edinah is a trailblazer, as one of the few Kenyan researchers collecting data on antimicrobial resistance genes outside of the hospital environment. Her research will help increase our understanding of the spread of anti-microbial resistance into human and animal populations. Edinah's findings will also be useful in informing efforts to reduce the burden of infections caused by environmental microorganisms such as bacteria.

The PhD Scholar's Programme

2019 By the Numbers



Juja:

Jomo Kenyatta University Of Agriculture and Technology

Nairobi:

Kenyatta University
University of Nairobi
Technical University of Kenya
United States International University - Africa

Njoro:

Egerton University

2 of our 10 Scholars graduated in 2019.

5 of them are expected to graduate in 2020.



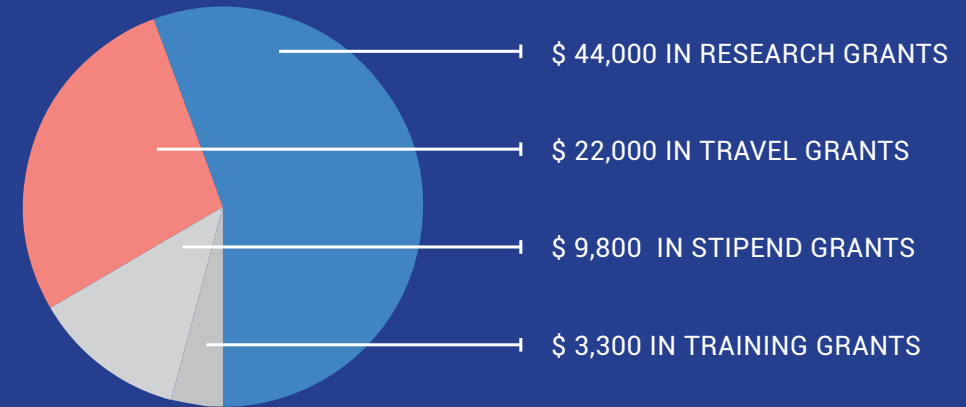
On average, only **30%** of researchers in African countries are women and much less in many countries like Kenya, where they only make up 25% of researchers, locking women's perspectives out of knowledge production and problem-solving on many issues.

(Source: UNESCO. 2018. "Women in Science Fact Sheet No 51)

Only **11%** of every doctoral class in Kenya graduates on time.

(Source: Omulando, Carolyne, and Peter L Barasa. 2018. "Research and PhD Capacities In Sub-Saharan Africa: Kenya Report". British Council and German Academic Exchange Service, DAAD.)

Grants Disbursement 2019



1 out 2

Mawazo PhD Scholars secured additional funding and grants, thanks to Mawazo support. Limited funds availability and self-funded nature of many PhD students exacerbate low completion rates.



80%

of women pursuing PhD studies in Kenya are self funded.

(Source: In 2008 Mawazo surveyed 170 women applicants to its PhD scholars programme. Among the questions asked was the source of funding applicants were using to conduct their research.)

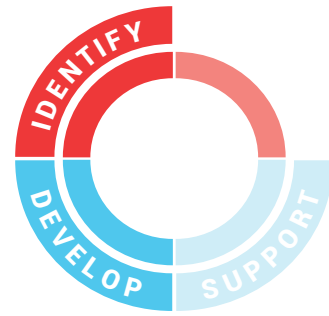
45% of African researchers report that they did not receive funding in the past 3 years.

(Source: Beaudry, Catherine, et al., editors. The Next Generation of Scientists in Africa. African Minds, 2018. Page 72.)

Among the **top five research funders** in Africa, only one is an African institution.

(Source: Beaudry, Catherine, et al., editors. The Next Generation of Scientists in Africa. African Minds, 2018. Page 35)

Mawazo Learning Exchange



The Mawazo Learning Exchange, which we call MLEx, grew out of our former 'Training and Resources' programme. MLEx is designed to connect African students, researchers, and practitioners to resources that can aid their academic and professional development. We began thinking about MLEx in 2018, in response to feedback from our first cohort of PhD Scholars.

As we surveyed these 10 PhD Scholars, we found that they had many competing needs for their time; from family and work responsibilities, to gendered societal pressures on home management, and their ongoing research and course work. The severe time restrictions our PhD Scholars face are reflective of the reality for many young female scholars seeking careers in the region's knowledge sector. In deference to the busy lives of our beneficiaries, in 2019 we began building a professional development curriculum with an emphasis on empathy and flexibility that would allow us to deliver our in-house training programme on Scholars' schedule.

We hired a young academic who is passionate about empowering women in the sciences, Dr. Angeline Wairegi, to spearhead this work. With support from the rest of the Mawazo team, we have begun building the MLEx e-learning platform and developing a curriculum that will

include skills training on academic writing and publishing, financial and grants management, policy outreach, and public engagement, among other areas. This e-learning curriculum is designed to continue providing valuable knowledge, skills and opportunities to young female scholars wherever they are located. MLEx will also offer a library of resources tailored to the African context and available to scholars and academics everywhere, regardless of their gender or nationality.

With funding support from the William and Flora Hewlett Foundation, the International Development Research Centre, and the Fondation L'Oréal, the MLEx platform is expected to launch in 2020. In its initial phase, MLEx will offer its courses to a closed-group of early-career African women researchers.

To stay up-to-date on the MLEx launch and other programme updates, sign up for our newsletter under the Connect page on our website, or at www.mawazoinstitute.org/newsletter.

Mawazo Learning Exchange

Challenges facing young, African scientists in capacity building

TOP 3 CAREER CHALLENGES REPORTED BY AFRICAN SCIENTISTS UNDER 39 YEARS-OLD

Source: Beaudry, Catherine, et al., editors. *The Next Generation of Scientists in Africa. African Minds, 2018.*



Lack of training opportunities to develop their professional skills



Lack of funding for research equipment



Lack of research funding

2019 By the Numbers

9,297

of visits to the Mawazo Opportunities Database

223

of Opportunities for African researchers listed by Mawazo

100%

of training beneficiaries who identify as women

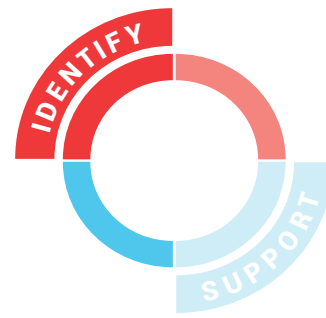
60

of researchers trained

3

of Mawazo in-house trainings offered

Public Engagement Programme

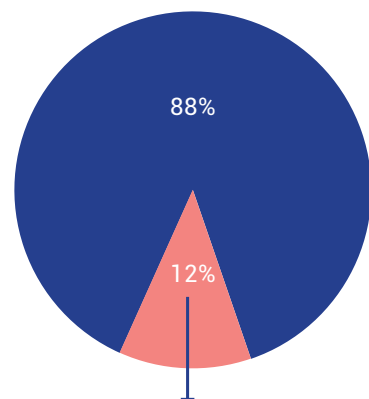


As Africa's knowledge systems grow, it is important that the vital and potentially life-saving work they are producing becomes enjoined to public conversations. Unfortunately, there continues to be limited public engagement with science across the continent. Instead, relevant and timely research remains inaccessible to the general public and to many policy makers.

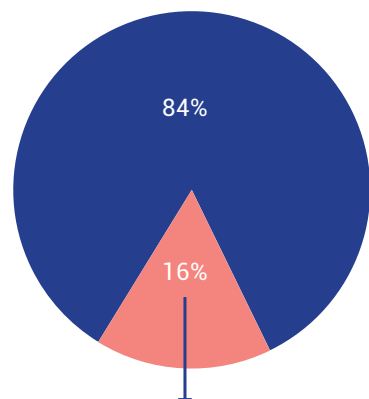
For example, in Kenya, where Mawazo is based, research by the African Institute for Development Policy (AFIDEP) found that Parliamentary Research Service staff rely on newspaper reports and government briefings rather than evidence by local academics to inform their advice to members of parliament. Yet fact-checking has shown that local newspapers often make unsupported claims. What if we

could connect these policy and decision makers to the kind of information they need to make informed decisions?

Our Public Engagement Programme develops platforms and tools to do just this; connecting Mawazo grantees and other African experts to the general public, and increasing understanding of the complex socio-economic and political challenges the region faces. Through our Public Engagement activities, we also centre the voices of women, ensuring that their skills, talent, and perspectives are not marginalised in the continent's knowledge production, and its development agenda. For the researchers we engage, we also hope to promote public engagement as a core principle of thought leadership within their individual fields.



Only **12%** of Kenyan firms use information from universities and other institutions of higher learning when pursuing innovations in their products and processes.¹



Only **16%** of Kenyan firms use information from government or public research institutes when pursuing innovations in their products and processes.¹

¹ Ndakala, Frank. (2017). Kenya National Innovation Indicators Survey 2015.

Public Engagement Programme

2019 By the Numbers

Media Impressions



50 out of 54 African countries where Mawazo's content and platforms have been engaged with

- 320** individuals attended Mawazo events
- 19** media mentions featuring Mawazo, its staff and PhD Scholars
- 1** e-book published, *2019 Breaking Barriers: 30 and Under, Women in STEM*
- 6** events hosted by the Mawazo Institute

Online Engagement

MAWAZO WEBSITE

- 24,759** unique users
- 42,209** page views

Top visitors by country:

- 1. Kenya
- 2. Nigeria
- 3. Ghana

NAIROBI IDEAS PODCAST

- 1,500** individual downloads

Top downloads by country:

- 1. Kenya
- 2. South Africa
- 3. Uganda

TWITTER

New Followers: **1171**

Countries:

- 1. Kenya
- 2. USA
- 3. UK

FACEBOOK

New Followers: **260**

Countries:

- 1. Kenya
- 2. Tanzania
- 3. Nigeria

LINKEDIN

New Followers: **952**

YOUTUBE

Views: **2,472**

Public Engagement Programme



Nairobi Ideas Night: Working On It



Women and Science in Africa: A Silent Revolution Documentary Screening



Girls in STEM Career Workshop



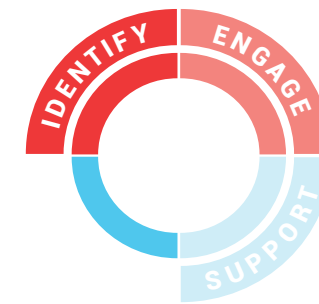
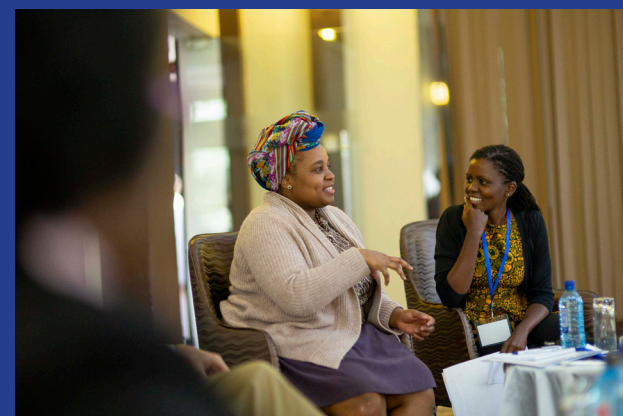
Women in Science Leadership Breakfast



Falling Walls Engage Hub Kenya



Nairobi Ideas Podcast



Policy Programme

Despite the progress being made to increase the representation of women as decision-makers and experts, across the globe, dominant expert voices continue to be male. Within Africa, leading voices on African issues—from scholars to industry, public sector, and civil society leaders—are also typically male. Mawazo's Policy Programme seeks to insert the voices of young African women into pressing policy discussions, shaping our beneficiaries into policy-oriented scholars who can leverage their expertise to influence decision-making at the national, regional and global level. Through training, mentorship, and support for policy engagement activities, we sensitise our beneficiaries to the important public role of researchers, increasing their competency in these areas, and exposing them to crucial knowledge brokers in the policy arena.

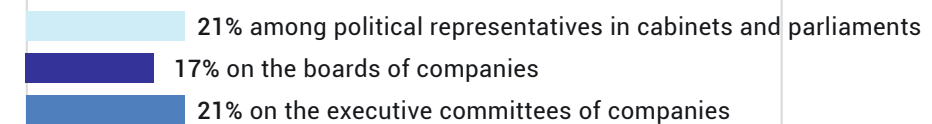
As part of our Policy engagement activities, we also leverage learnings from Mawazo's work to share knowledge and encourage evidence-informed decision making in the African higher

education and research ecosystem. As a result, we have a strong presence in events in the research and policy space, ensuring that our unique perspectives on the needs of early career African women scientists remain prominent in discussions within the sector.

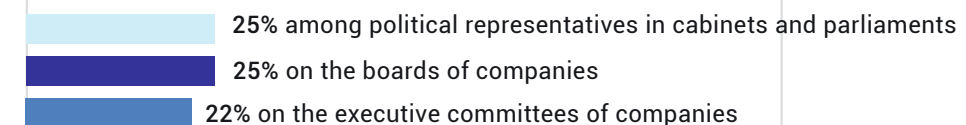
In the last year, Mawazo staff participated in panels and conferences hosted by leading institutions, including the African Institute for Development Policy's panel on Conversations in Development: From African Research to Policy Change, the Organization for Women in Science for the Developing World's (OWSD) Early Career Fellowship Regional Workshop, and the African Studies Association of Africa's (ASAA) Third Biennial International Conference.

As we look ahead, Mawazo plans to launch a small grants programme that will allow our beneficiaries, early-career female researchers, to conduct policy related activities, such as organising workshops and roundtables with policymakers, and producing publications.

Globally, % of women:¹



In Africa, % of women:¹



¹ Woetzel, J., Madgavkar, A., Sneader, K., Tonby, O., Lin, D.-Y., Lydon, J., Gubieski, M. (2018). The power of parity: Advancing women's equality in Asia Pacific (MGI Research Report). New York, NY: McKinsey Global Institute. Pages 19, 31

Conferences and Workshops

As of July 2020

Name of Event/Conference	Attended By	Date/Location
On Think Tanks Conference 2020	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	23 - 25th June 2020, Hosted Virtually
Falling Walls Engage Hub Kenya	Organiser & Moderator: Dr. Rose M. Mutiso, CEO & Kari Mugo, Digital Media and Public Engagement Consultant	9th March 2020, Co-Hosted by Mawazo Institute in Nairobi, Kenya
Global Off-Grid Solar Forum & Expo 2020 the Biennial meeting of the off-grid solar energy industry	Moderator: Dr. Rose M. Mutiso, Mawazo CEO	18th - 20th February, 2020, Nairobi, Kenya
10th KEMRI Annual Scientific & Health Conference (KASH)	Speaker: Prof. Mary Abukutsa, Mawazo Board Member	11th - 13th February 2020, Nairobi, Kenya
The African Institute for Development Policy (AFIDEP): Conversations in Development: From African Research to Policy Change	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	30th January 2020, Nairobi, Kenya
NOMA Art Exhibit, a project of JENGA CCI, in partnership with BlackRhinoVR, and Broken Metatarsal Productions	Speaker: Melisa Allela, Mawazo PhD Scholar	23rd January 2020, Nairobi, Kenya
Organization for Women in Science for the Developing World (OWSD) Early Career Fellowship Regional Workshop	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	25 - 29th November 2019, Dar Es Salaam, Tanzania
African Studies Association of Africa (ASAA) Third Biennial International Conference	Speaker: Elaine Mungai, Mawazo Programme Manager	24 - 26th October 2019, Nairobi Kenya
What works Global Summit (WWGS) 2019 on Building on Evidence	Speaker: Dr. Joy Kiiru, Mawazo Board Member	1st - 16th October 2019, Mexico City, Mexico

In 2019, 84% of the conferences and training attended by Mawazo PhD Scholars were within Africa¹. This is notable because of the need to increase collaboration among African researchers. Currently, 70% of all East African research produced in the fields of science, technology, engineering and mathematics is produced through international collaborations. Only 13.6% of research in these fields is between researchers in the region¹.

Name of Event/Conference	Attended By	Date/Location
Dartmouth at 250: The Global Summit Europe Middle East Africa	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	27th - 29th September, 2019, London, UK
The African Academy of Sciences(AAS): Connecting Minds Africa 2019	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	25-27th September 2019, Nairobi, Kenya
The Rotary Club of Nairobi East: Coal as an Alternative Energy Source - What Kenyans Should Know	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	24th September 2019, Nairobi, Kenya
Rockefeller Foundation, East Africa Premiere of Solvable	Participant: Elaine Mungai, Mawazo Programme Manager & Kari Mugo, Digital Media and Public Engagement Consultant	19th August, 2019, Nairobi, Kenya
8th National Science and Technology Exhibition Week - Kenya	Organiser & Moderator: Dr. Rose M. Mutiso, Mawazo CEO	5th - 9th August 2019, Nairobi, Kenya
TED Summit 2019, Session 4: Business Unusual, hosted by Whitney Pennington Rodgers and Cloe Shasha	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	24th July 2019, held in Edinburgh, Scotland
Department for International Development (DFID) Knowledge and Evidence Workshop	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	2nd August 2019, held in Nairobi, Kenya
East Africa Social Science Translation (EASST) 8th Annual Summit	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	July 22nd - 23rd July, 2019, Nairobi, Kenya
Global Forum on Women in Scientific Research (GoFoWiSeR)	Speaker: Rachel Strohm, Mawazo Board Chair	18th - 19th July, Dakar, Senegal
Working Group in African Political Economy (WGAPE) 2019 Annual Meeting	Speaker: Rachel Strohm, Mawazo Board Chair	9th - 12th July 2019, Cape Town, South Africa

¹ World Bank. 2014. A decade of development in sub-Saharan African science, technology, engineering and mathematics research (English). Page 32.

Conferences and Workshops

As of July 2020

Name of Event/Conference	Attended By	Date/Location
African Leadership For Education Meet Up	Participant: Ashley Muthaka and Elaine Mungai	26th June 2019, Nairobi, Kenya
DiffDevelopment Seminar on - Making the Real World Work for You: Leveraging Job Experiences to Benefit You	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	26th June 2019, Hosted Virtually
INASP and AuthorAid, Search Strategies Advisory Group	Participant: Winnie Nyamboki, Mawazo PhD Scholar & Elaine Mungai, Mawazo Programme Manager	21st June -19th July 2019, UK
The Science Diplomacy Seminar Organized by Human Sciences Research Council in Collaboration with Riara University-Plus stakeholders in Nairobi	Participant: Elaine Mungai, Mawazo Programme Manager	18th June, 2019, Nairobi, Kenya
The Conversation Africa, Public Lecture on Evidence to Action: How to Connect your Research with Policymakers and use Evidence to Influence Policy	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	11th June 2019, Nairobi, Kenya
IEA Africa Energy Outlook Workshop	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	17th April 2019, Paris, France
Toward a Network of Excellence in Artificial Intelligence for Development (AI4D) in sub-Saharan Africa, Workshop within the AI4D initiative in sub-Saharan Africa	Participant: Melisa Allela, Mawazo PhD Scholar	3rd-5th April, 2019 at Strathmore University, Nairobi, Kenya
PASGR Advanced Training For Multi-Method & Policy Oriented Research	Participant: Edina Song'oro, Mawazo PhD Scholar	3rd-11th April 2019, Nairobi, Kenya
After Office Hours : Why Africa Needs More Female Scholars and Thought Leaders	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	28th March 2019, Nairobi, Kenya

Conferences and Workshops

As of July 2020

Name of Event/Conference	Attended By	Date/Location
One Health Community Engagement and Results Dissemination Workshop: Sensitization on the prevention and control of zoonotic viruses	Convened by Peris Ambala, Mawazo PhD Scholar	25th-30th March 2019, sponsored by the Mawazo Institute, USAID Direct and the Institute of Primate Research (IPR) in Laikipia County, Kenya"
Workshop contributing to the G7 inputs on gender equality on the theme: Promotion of African women scientists and their contribution to the global challenges the world is facing	Participant: Dr. Rose M. Mutiso, Mawazo CEO	15th March, 2019, Paris, France
The New York Times Battle at the L'Oréal Foundation's Breakfast Debate: How Gender Bias Impact Research Outcomes	Debater: Dr. Rose M. Mutiso, Mawazo CEO	13th March, 2019 hosted in partnership with the New York Times in Paris, France
L'oreal-UNESCO For Women in Science Awards Ceremony	Participant: Dr. Rose M. Mutiso, Mawazo CEO	13th March, 2019 at UNESCO House, Paris, France
International Women's Day Advocacy Dinner: The STEM Future is Female	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	8th March 2019, Nairobi Kenya
DAAD Alumni Conference: Young Scholars in Africa – Challenges and Opportunities	Speaker: Dr. Rose M. Mutiso, Mawazo CEO & Elaine Mungai, Mawazo Programme Manager	1st – 3rd March, 2019 at the DAAD Regional Offices in Nairobi, Kenya
9th KEMRI Annual Scientific and Health (KASH) Conference	Delegate: Peris Ambala, Mawazo PhD Scholar	13th-15th February 2019, Nairobi, Kenya
The Electricity Supply Monitoring Initiative (ESMI) Convening Program	Speaker: Dr. Rose M. Mutiso, Mawazo CEO	22nd January 2019, Nairobi, Kenya
MIT Reality Virtually Hackathon	Participant: Melisa Allela, Mawazo PhD Scholar	17th-21st January 2019 Cambridge MA

Publications and Media

As of July 2020

Media	Notes	Link
Daily Nation, 30th May 2020	This article features Marilyn Ronoh, Mawazo PhD Scholars Programme alumna, who discusses how mathematical models can be used to predict transmission dynamics of various pandemics and predict the most effective controls in slowing down the disease spread.	https://www.nation.co.ke/kenya/healthy-nation/understanding-covid-19-311168
Africa Portal: Return and (Re)Integration in Fragile Contexts: The Experiences of Somali Returnees. 27th May 2020	In this policy briefing Jacqueline Owigo, 2018 Mawazo PhD Scholar, illustrates the effects of climate change on the condition of return and reintegration of Somali refugees.	https://www.africaportal.org/publications/return-and-reintegration-fragile-contexts-experiences-somali-returnees/
Africa Portal: The future of Africa's power sector. 2nd April 2020	Rose M. Mutiso, an energy sector expert, discusses prospects for the future of Africa's power sector as the continent seeks to bridge both its energy access and development gaps.	https://www.africaportal.org/features/q-future-africas-power-sector/
Parents Magazine. March 2020 Issue	Rose Mutiso is featured as 'Breaking Gender Barriers in Science'	
Ikigai Space Blog, March 17 2020, The power of standing out.	In this article Ikigai features Mawazo's work as part of IWD 2020	http://ikigainairobi.com/the-power-of-standing-out-with-mawazo-institute/
Business Daily Africa, 13th February 2020. Let's make more room for girls and women in Science	In this op-ed, Mawazo CEO Dr. Rose M. Mutiso discusses how African women continue to be marginalised in the conversations about the continent's development that most impact them.	https://www.businessdailyafrica.com/analysis/columnists/Let-s-make-room-for-more-girls-and-women-in-science/4259356-5453412-11ik8hc/index.html
Le Monde, 21st January 2020		https://www.lemonde.fr/economie/article/2020/01/21/l-afrique-de-l-est-produit-plus-d-electricite-qu-elle-ne-parvient-a-en-consommer_6026680_3234.html

Publications and Media

As of July 2020

Media	Notes	Link
Physics World, 17th Dec 2019	In this Oped Dr. Jessamyn Fairfield, and Dr. Rose Mutiso discuss the power public engagement has to make science more accessible, diverse, and collaborative.	https://physicsworld.com/a/empowering-new-scientific-voices/
Women's Forum - Daring Circle Initiative Feature. 12th December 2019	Dr. Rose Mutiso is featured as part of the Daring Circles initiative at the Women's forum which highlighted women who are exercising leadership on the key issues, including technology, health, climate and women in business.	https://www.womens-forum.com/2019/12/12/dr-rose-mutiso-co-founder-and-ceo-of-the-mawazo-institute/
Le Monde, 23rd November 2019	In this feature, Rose Mutiso is featured as the Kenyan who opens the doors of physics to the general public.	https://www.lemonde.fr/afrique/article/2019/11/23/rose-mutiso-la-kenyane-qui-ouvre-au-grand-public-les-portes-de-la-physique_6020244_3212.html
Monique Morrow Blog. 12th June 2019	Women In Tech In Africa: Progress, Challenges, and What Comes Next.	https://www.moniquemorrow.com/blog/2019/6/12/women-in-tech-in-africa-progress-challenges-and-what-comes-next
Observer Research Foundation. India. 21st April 2019	This interview was conducted via Email with Rachel Strohm as the respondent.	
Ikigai Space Blog, March 27, 2019. Meet the Women of Mawazo Institute.	Women's Month special edition of the Ikigai Blog featuring the Mawazo Institute as a women led institution	http://ikigainairobi.com/mawazo-institute-ikigai-nairobi/
Business Daily Africa, March 8, 2019. #BalanceForBetter: Science is My Little Thing.	Mawazo PhD Scholar Elizabeth Mutua is featured in Business Daily Africa's celebration of International Women's Day 2019	https://www.businessdailyafrica.com/lifestyle/society/Science-is-My-Little-Thing/3405664-5015230-12xtgo/index.html

Publications and Media

As of July 2020

Media	Notes	Link
World Economic Forum Blog, February 19, 2019: These 7 women in STEM give timeless advice to other aspiring scientists	Three Mawazo PhD Scholars, Judith Koskey, Marilyn Ronoh, and Melisa Allela share their advice for aspiring women scientists for International Day of Women and Girls in Science.	https://www.weforum.org/agenda/2019/02/want-to-be-a-woman-in-science-here-s-advice-from-those-who-ve-gone-before/
El Periodico, February 16, 2019. Talent Round Trip: The mobility of African scientists can be translated into development.	Mawazo Co-Founder and CEO Dr. Rose M. Mutiso is featured in an article discussing brain drain and the mobility of African women scientists	https://www.elperiodico.com/es/mas-periodico/20190216/cerebros-de-ida-y-vuelta-7304629
The Conversation, February 7, 2019. Want to be a woman in science? Here's advice from those who've gone before.	Three Mawazo PhD Scholars, Judith Koskey, Marilyn Ronoh, and Melisa Allela share their advice for aspiring women scientists	https://bit.ly/2FOFyRm

Videos

Media	Notes	Link
Bright Club Ireland, January 7, 2019. Reclaiming the meaning of women who think.	CEO and co-founder Dr. Rose M. Mutiso uses stand-up comedy to talk about her personal scientific journey and the work of the Mawazo Institute	https://www.youtube.com/watch?v=Dtf-07xrYlw
TED talk, July 24, 2019.	Dr. Rose Mutiso discusses how a balanced mix of solutions like solar, wind farms, geothermal power and modern grids could create a high-energy future for Africa	https://www.ted.com/talks/rose_m_mutiso_how_to_bring_affordable_sustainable_electricity_to_africa?utm_campaign=tedspeak&utm_medium=referral&utm_source=tedcomshare

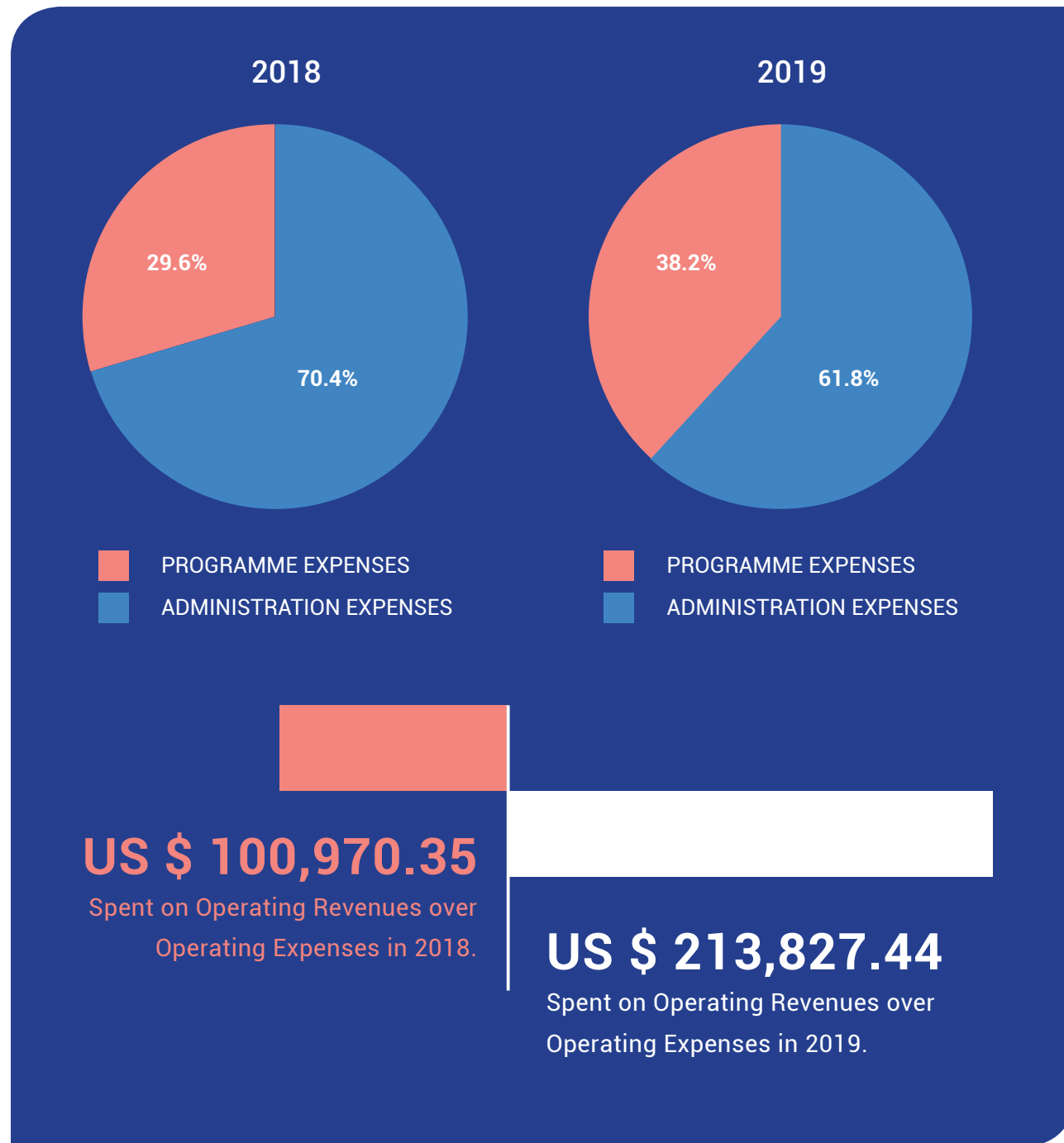
Awards and Grants

As of July 2020

Award / Grant	Awarded To	Date / Location
Fellowship: Augsburg University of Applied Sciences (AUAS)	Melisa Allela	1st May - 24th July, 2019, Augsburg, Germany
Grantee: HEVA Fund Cultural Heritage Seed Fund	Melisa Allela	12th April, 2019, Nairobi, Kenya
Scholarship: Furtwangen University	Elizabeth Benson	September 2019- February 2020 [Rescheduled to March 2020 due to difficulty meeting costs, likely delayed due to COVID]
Fellowship: Next Generation Social Sciences in Africa Fellowship 2019-2020	Jacqueline Owigo	Announcement: 22nd July 2019, Duration: July 2019-July 2020
Sponsorship: ICIPE Sponsorship to attend Insect Chemical Ecology Workshop (ICE 2019), PhD-level Course in Insect Chemical Ecology	Teresiah Njihia	10th-21st June, 2019, Nairobi, Kenya
Grant: Research and Training Consultancy International/Africa Centre of Excellence in Public Health and Herbal Medicine (RTCI/ACEPHEM) support to participate in a five days grant writing training	Peris Ambala	13th September, 2019, Nairobi, Kenya
Grant: 2019/2020 National Research Fund Grant	Judith Koskey	17th May, 2020, Nairobi, Kenya
Award: Women in Tech Africa 2020's Innovations Throughout Africa	Elizabeth Benson	18th February 2020, Nairobi, Kenya
Grant: 2019/2020 National Research Fund Grant	Peris Ambala	20th February, 2020, Nairobi, Kenya
Award: Winner Digital Lab Africa (Immersive Realities category)	Melisa Allela	19th June, 2020, Nairobi, Kenya

Financial Report

Annual income and expenditure for the past two years of Mawazo's operations are summarised below.



Mawazo 2019 Overall Operating Revenues and Expenses

OPERATING REVENUES		AMOUNT (US\$)
Individual Donations		201,438.17
	Next Einstein Forum (via Rose Mutiso)	24,000.00
Foundations and other donors;	National University of Ireland Galway (Institute of Physics)	454.00
	The William and Flora Hewlett Foundation	250,000.00
	L'oreal	59,229.00
TOTAL REVENUES		535,121.17
OPERATING EXPENSES		
Programme Expenses	Scholar Expenses	86,115.00
	Scholar Grants	24,848.61
	Public Engagement and Policy	54,441.83
	Training and Resources	33,213.65
Total Programme Expenses		198,619.08
Supporting Services Expenses	Administration Expenses	96,369.22
	Fundraising Expenses	26,305.42
Total Supporting Services Expenses		122,674.65
TOTAL EXPENSES		321,293.73
OPERATING REVENUES OVER OPERATING EXPENSES		213,827.44

The Mawazo Board

We are pleased to introduce the inaugural Mawazo Board. Comprising seasoned public and private sector experts, serving a renewable two-year term, the board will provide oversight in three main areas: Mawazo's financial and legal affairs, its fundraising, and in sectoral strategy within higher education and research.

RACHEL STROHM

Board Chair



Rachel Strohm is the co-founder and chair of the board at the Mawazo Institute. She is also a PhD candidate in political science at the University of California, Berkeley.

DR. JOY KIIRU

Strategy Committee Deputy Board Chair



Dr. Joy Kiiru is the Deputy Board Chair, and Chair for the Strategy Committee. She is a Senior Lecturer at the School of Economics, University of Nairobi, whose research has earned her international recognition.

PROF. BITANGE NDEMO

Strategy Committee



Professor Bitange Ndemo is a Professor of Entrepreneurship at the University of Nairobi's Business School. He is also a weekly columnist for the Daily Nation Newspaper.

MARY ABUKUTSA-ONYANGO

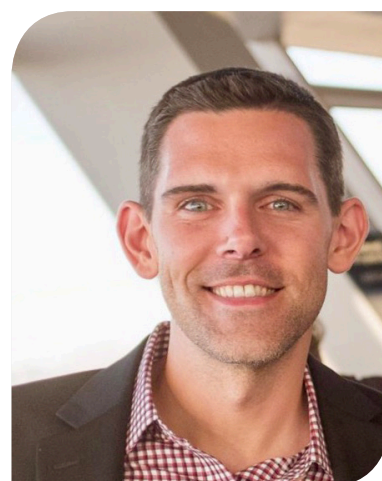
Strategy Committee



Professor Mary Abukutsa-Onyango is a Professor of Horticulture and Deputy Vice Chancellor (Research, Production and Extension) at the Jomo Kenyatta University of Agriculture and Technology in Kenya.

KYLE POLITE

Fundraising Committee



Kyle Polite is the current Deputy Director of Development at San Francisco Opera and was formerly the Managing Director of West Coast Development at the Tuck School of Business at Dartmouth.

CHRISTINA NDUBA-BANJA

Legal and Finance Committee



Christina Nduba-Banja is a Senior Associate at Coulson Harney, a top tier full-service law firm based in Nairobi, Kenya, and that is part of Bowmans Law, a premier Pan-African law firm. .

KIM-ANDRÉE POTVIN

Fundraising Committee



Kim-Andrée Potvin is Head of Operations at Bamboo Capital Partners and was previously the Chief Operating Officer for Landolt & Cie SA.

DANIELE RESSLER

Legal and Finance Committee



Daniele Ressler is the Impact Director of Lwala Community Alliance, an NGO delivering community-based health services in Migori County, Kenya.

RUTH LEVINE

Fundraising Committee



Ruth Levine, PhD, is the CEO of IDinsight, a global advisory, data analytics, and research organisation that helps development leaders maximize their social impact.

COSMAS MULUMBA

Legal and Finance Committee



Cosmas Mulumba is an experienced public sector and international development specialist. He is the current Public Sector Advisory Manager at PwC.

WANJIKU KIRAGU

Fundraising Committee



Wanjiru Kiragu is the Director of Partnerships for Donor and Grant Relations at Arifu, an Ed-Tech Social Enterprise.

The Mawazo Team

Meet the Staff



**DR. ROSE M. MUTISO,
CEO**

Dr. Rose M. Mutiso is the Co-Founder and CEO of The Mawazo Institute, which supports the next generation of female scholars and thought leaders in East Africa, and promotes public engagement with research. She is also the Research Director of the Energy for Growth Hub, working with global experts to find solutions for energy deficits in developing countries. Rose has worked extensively as a researcher and practitioner focused on technology and policy dimensions of energy, environment and innovation issues globally. Most recently, her work has focused on power sector issues in Africa, particularly the links between renewable energy, energy efficiency, and energy poverty.

She is a Materials Scientist by training with research experience in the fields of nanotechnology and polymer physics. Rose is passionate about harnessing science & technology to improve lives, and elevating women to positions of leadership and influence in African society. She earned her BA and BE in Engineering Sciences with a concentration in Materials Science from Dartmouth College, and her PhD in Materials Science and Engineering from the University of Pennsylvania.



**ELAINE MUNGAI,
PROGRAMME MANAGER**

Elaine Mungai is the Programme Manager at the Mawazo Institute. Prior to joining Mawazo, Elaine worked as the lead business analyst at Doreo Partners, where she managed programs geared towards poverty alleviation, youth employment, and financial inclusion for thousands of rural farmers across Northern Nigeria. Elaine has also worked as a research analyst at the Kenya Civil Society Platform on Oil and Gas where she participated in advocacy and policy making in Kenya's extractives industry. As a consultant, she has conducted extensive market research for private equity firms in Kenya.

She holds a Bachelor of Business Science in Actuarial Science degree from Strathmore University. Originally from Nairobi, Elaine is passionate about using data to foster informed decision-making that will spearhead Africa's growth.



**ELIZABETH NGALA,
FINANCE MANAGER**

Liz Ngala is a Certified Public Accountant of Kenya (CPA-K) with over 10 years working experience. She has a strong mix of experience, expertise and qualifications, with major areas of focus on finance procedures and controls, tax management, financial analysis, and internal audits. She previously worked as a financial accountant and senior legal accountant at Anjarwalla & Khanna Advocates, and a finance manager at Horizon Africa Capital Limited. She is also currently the finance manager at EED Advisory Limited. Liz was educated at Strathmore University, Nairobi.



**KARI MUGO,
DIGITAL MEDIA AND
PUBLIC ENGAGEMENT
CONSULTANT**

Kari Mugo is an activist, writer and communications consultant supporting the work of agitators, dreamers and social justice movements working towards a universe of equals. Before joining Mawazo Institute, she was Operations Manager at the National Gay and Lesbian Human Rights Commission, where she oversaw program and staff management. She brings with her four years of experience partnering with nonprofits and local government agencies in Minnesota, USA and Nairobi, Kenya to tell their stories.

Kari is skilled in developing external communications, fundraising and community engagement - and believes in the power of storytelling. She holds a Bachelor of Arts degree in Economics and Political Science from St. Cloud State University.



**ASHLEY MUTHAKA,
OPERATIONS MANAGER**

Ashley Wangui Muthaka is the Operations Manager at Mawazo Institute. Before joining Mawazo, Ashley was a Business Development and Solutions Administrator at DHL Supply Chain East Africa, where she was responsible for business development and client relationship management at the head office in Nairobi, Kenya.

She holds a Bachelor of Science in Business Administration with a Concentration in Accounting degree and a Master of Science in Supply Chain Management degree from Towson University in the USA. Born and raised in Nairobi, Ashley is passionate about the community and women's empowerment.

The Mawazo Team

Meet the Staff



**ANGELINE WAIREGI,
ONLINE PLATFORM
DEVELOPER AND
TRAINING SPECIALIST**

Dr. Angeline R. Wairegi is responsible for the development and implementation of Mawazo's online training platform and program. Prior to joining Mawazo, she taught at various four year universities in the USA, among them Central Washington University and Mount Ida College. She is proficient in the creation, execution and evaluation of educational programs and is passionate about empowering women in the sciences by providing training material and resources to help them in their academic journey.

A physical chemist by training, Dr. Wairegi has extensive research experience in the field of quantum Chemistry and is interested in using theoretical computational methods to search for solutions to real world problems. She earned her PhD in Physical Chemistry from Utah State University; her M.Sc in Food Science from Chapman University and a B.Sc in Chemistry with a minor concentration in Mathematics from the University of North Texas.



**MAINA WACHIRA,
RESEARCH AND
ANALYTICS ASSOCIATE**

Maina is a recent graduate of the University of Chicago, where he earned a Bachelor of Arts in Philosophy while exploring his interdisciplinary interests through coursework in mathematics and literature. Before joining Mawazo, he worked on the editorial team of Sliced Bread Magazine, volunteered at Open Books Chicago, and organised on Chicago's South Side with the Midwest Workers' Association in order to connect local residents to public utilities and legal help. During his time as a student, the sight of major academic institutions neglecting their local communities sparked his passion for supporting diverse research environments and publicly accessible knowledge.



**NALIKA ODERA,
CONTENT CREATOR**

Naliaka is a freelance writer, editor and social media consultant. She is the Co-Founder and Managing Editor of 'Of Africa', an online platform that celebrates women of African descent while fostering editorial talent. She is also a founding member of 'Social 4 Rookies', a training and consultancy group that teaches companies and individuals the integral concepts of branding online at a beginners level. She holds a BA from the University of British Columbia and has an ongoing love affair with words. Through Of Africa and her consulting, she stresses the importance of people learning vital communication skills to be able to speak for themselves.



**ARAFA C. HAMADI,
GRAPHIC DESIGNER**

Arafa (they/them) is an interdisciplinary visual and installation artist, working in the fields of graphic, set and structural design. They graduated from the University of Edinburgh in 2017, with a Masters of Arts with Honours in Architecture. Currently based between Kenya and Tanzania, they work professionally as an art director for various festivals around East Africa including the Ongala Music Festival, Tanzania, and Kilifi New Year, Kenya.

During festival off-seasons, they address the intersections of art and architecture through the creation of immersive installations which have featured in exhibitions in Mozambique and Tanzania. They are also part of the cohort of 2020 fellows for the ICA Fellowship (SA) and Bakanal de Afrique Festival Fellowship (USA). They also co-host and co-producer of the Tanzania-based podcast, the Chai Podcast.



**GRACE NJOROGE,
INTERN**

Grace is a recent graduate of the Jomo Kenyatta University of Agriculture and Technology where she earned a Bachelor of Science in Genomic Science. She is involved in promoting STEM among youth, helping to spark interest in science and innovation through her involvement with Young Scientists Kenya and her volunteer work at Science Center Kenya.

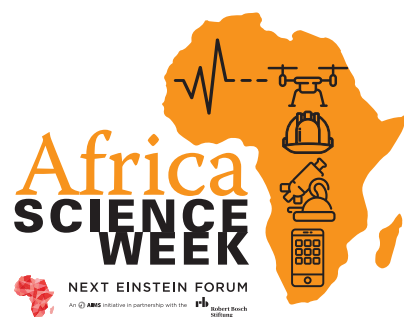
Grace is passionate about empowering youth who she considers the future leaders of society. She is also passionate about learning about human genetics and its impact in the health sector.

Our Partners

Funding Partners

In addition to the individual donors who have donated generously to support Mawazo's programmes, we would like to thank the following institutional partners who have provided us with direct funding.

DAAD Deutscher Akademischer Austauschdienst
German Academic Exchange Service



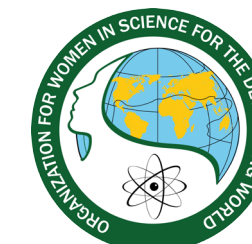
IN COLLABORATION WITH



Our Partners

Implementation Partners

We are a small organisation with a big footprint that relies on unique partnerships to expand our reach and deliver our mission. Some of the institutional partners that have helped us deliver our programmes, including trainings, workshops and other events are listed here.



NATIONAL COMMISSION FOR SCIENCE, TECHNOLOGY AND INNOVATION



DAAD Deutscher Akademischer Austauschdienst
German Academic Exchange Service

About Mawazo Institute

The Mawazo Institute is a Nairobi-based non-profit that leverages experts, citizens, and decision makers to inspire the big ideas our future needs.

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MAWAZO INSTITUTE
WOMEN LEADING RESEARCH IN AFRICA