



AFRICAN CLIMATE CHANGE FELLOWSHIP PROGRAM

The Fellowship Program

The African Climate Change Fellowship Program (ACCFP) offers experiential learning, education, research and training opportunities to African professionals, researchers and graduate students that enhance their capabilities for advancing and applying knowledge for climate change adaptation in Africa.

Participating Fellows receive small grants that enable them to undertake Policy Fellowships, Teaching Fellowships, Doctoral Fellowships and Post-Doctoral Fellowships. The Fellowship grants enable Fellows to visit other institutions – Host Institutions – for 2-18 months to learn what others are doing to manage climate risks and adapt to climate change and how they assess and prioritize climate risks, current practices for designing and implementing adaptation projects, and approaches for integrating adaptation with program planning and policy. Some Fellows also undertake research projects that support adaptation decision-making and/or develop and implement curricula for integrating climate change and climate change adaptation into graduate level education.

In November 2008, the ACCFP selected its inaugural round of Fellows. After extensive review of nearly 300 applications, 45 Fellows from 18 African countries were selected to receive awards. The Fellows' Home Countries are highlighted below. More information about their projects and plans is provided on the inner page of this publication.

2009/2010 ACCFP Fellows - Home Countries

- Benin (1)
- Burundi (1)
- Burkina Faso (4)
- Cameroon (7)
- Cent. African Republic (1)
- Chad (1)
- DR Congo (2)
- Ethiopia (2)
- Ghana (1)
- Kenya (6)
- Malawi (1)
- Morocco (1)
- Nigeria (8)
- Senegal (2)
- South Africa (2)
- Tanzania (1)
- Uganda (1)
- Zimbabwe (3)



4 Fellowship Types

Policy Fellowships are awarded to early to mid-career candidates who are resident in Africa and are currently working in organizations that play a role in or have the potential to influence policies and decision-making in climate-sensitive sectors in Africa. Policy Fellowships last 6 months or less and offer a maximum award of \$8,000 USD.

Teaching Fellowships are awarded to educators from African universities. The aim of the Teaching Fellowships is to enable recipients to develop and implement new Masters-level courses on climate change related topics or to integrate climate change topics into existing courses. Priority is given to design and development of interdisciplinary courses and those that fit logically within and add value to existing Master's programs. Teaching Fellowships last for 2 months or less and carry a maximum award of \$5,000 USD.

Doctoral Research Fellowships are awarded to students who are studying in a doctoral program and conducting research related to climate change risks and adaptation at an African university. Doctoral Fellows receive an award that enables them to visit a suitable Host Institution for training in innovative methods, models or analytic tools; to participate in supervised research; and/or to access data, models, or tools that would raise their capabilities as a researcher and significantly improve the quality and value of their dissertation research. The Home Institution, not the Host, grants the doctoral degree. Doctoral Fellowships last for 12 months or less and carry a maximum award of \$16,500 USD.

Post-Doctoral Fellowships are awarded to Africans with doctoral degrees in fields relevant to climate change and climate change adaptation. The aim of the Post-Doctoral Fellowships is to enable recipients to participate in research and teaching under the supervision of a more established mentor and to become more productive researchers and teachers in fields that will contribute to improved management of climate risks and climate change adaptation. Post-Doctoral Fellows receive an award that enables them to visit a suitable institution to work with an established, highly qualified researcher/teacher on a well-defined problem. Post-Doctoral Fellows also mentor and help to supervise other ACCFP Fellows placed at their Host Institution. Post-Doctoral Fellowships can last for up to 18 months and carry a maximum award of \$36,000 USD.





Meet the Fellows

2009/2010 ACCFP Awardees

Policy Fellows

Peter KALOKI, Kenya

"Identification of sources of heat tolerance in chickpea genotypes and its suitability as an adaptation option in agriculture"

Home: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Nairobi
Host: Egerton University - Crop Management, Research and Training (CMRT)

Caroline Agosa KIRUNGU, Kenya

"Communicating climate change - Coursework and comparative practical experience in South Africa"

Home: Kenya Sugar Research Foundation
Host: University of Orange Free State, Department of Agrometeorology and the South African Sugar Research Institute

David Kimani KURIA, Kenya

"Project Kereita 2009: Understanding local communities' knowledge and their adaptation mechanisms to climate change"

Home: Kijabe Environment Volunteers
Host: BirdLife International, Climate Change Programme, Kasarani Campus

Jean-Berchmans MBAZUMUTIMA, Burundi

"Increasing awareness of climate change and the need for national policies for climate change adaptation in Burundi"

Home: Institut Géographique du Burundi (IGEBU)
Host: Institute of Resource Assessment, University of Dar es Salaam (IRA-U DSM)

Joelle MUKUNGU NKOMBELA, DR Congo

"Adaptation to climate change in Africa: Case study of the agriculture sector in Burkina Faso"

Home: Organisation Concertée des Ecologistes et Amis de la Nature (OCEAN)
Host: Centre for International Forestry Research (CIFOR), Burkina Faso

Gerald Maina MURIUKI, Kenya

"Strengthening Adaptive Capacity to Climate Change: Participatory Infrastructure Planning in Kibera-Silanga"

Home: Practical Action - Kenya
Host: Kenyatta University, Department of Environmental Planning and Management

Felix OLORUNFEMI, Nigeria

"Climate change impacts in the informal settlements of the Western Cape - Understanding preparedness, vulnerability, and adaptation options"

Home: Nigeria Institute for Social and Economic Research
Host: University of Cape Town (UCT)

Nancy Akinyi OMOLO, Kenya

"Gender, pastoralism and climate change: Vulnerability and adaptation in Turkana in Northern Kenya"

Home: Foodlink Resources
Host: University of KwaZulu-Natal (UKZN)

Naima OUMOUSA, Morocco

"Examining and facilitating complementarities between forestry projects included in UNCCD National Action Programs and UNFCCC National Adaptation Programs of Action - Case studies from Least Developed Countries in the Sahel"

Home: Peace Corps Morocco
Host: UNCCD Secretariat, Regional Coordination Unit for Africa

Monica Kansime OWUOR, Uganda

"Enhancing livelihoods and resilience through community land use planning and mapping"

Home: Heifer International Uganda
Host: Egerton University

Linda PHALATSE, South Africa

"Communicating with stakeholders to inform and promote climate change adaptation for the City of Johannesburg"

Home: City of Johannesburg
Host: University of Witwatersrand

Christian RIZIKI KABWE RIZE, DR Congo

"Raising awareness of climate change risks and adaptation options in DR Congo"

Home: Tayna Center for Conservation Biology - Kasugho Université for Nature Conservation and Développement (TCCB-KUNCD)
Host: University of Cadi Ayyad

About SALE, Cameroon

"Identification and evaluation of the efficiency of peasants' agricultural strategies for climate change adaptation in order to improve natural resources management policies in arid and semi-arid regions of Africa"

Home: Institute for Agricultural Research for Development (IARD)
Host: Egerton University

Arame TALL, Senegal

"Training Red Cross National Societies for climate change adaptation, early warning and early action"

Home: Red Cross / Red Crescent Climate Center
Host: Université Cheikh Anta Diop de Dakar (UCAD)

Maximilien TIOGANG DJOMO, Cameroon

"Multi-actor approaches and local development strategies in the management of water and forest resources for climate change adaptation"

Home: Ministry of Environment and Protection of Nature, Western Provincial Delegation, National Action Plan for the Fight against Desertification, Cameroon
Host: Centre for International Forestry Research (CIFOR), Cameroon

Betinbaye YAMINGUE, Chad

"Using local know-how for climate change adaptation: The case study of Malo Gaga"

Home: LEAD Tchad
Host: Centre for International Forestry Research (CIFOR), Burkina Faso

Teaching Fellows

Moses Adeyeye Adeyemi AWODUN, Nigeria

"Empowering rural farmers to trade out poverty through Jatropha farming in Nigeria - Demonstration plots and participatory training at the Federal University of Technology, Akure, Nigeria"

Home: Federal University of Technology, Akure
Host: N/A

Andre LENOOU, Cameroon

"Enhancing capacity for climate data processing, climate variability scenario development, and application to agricultural yield sensitivity in the Master's program of the Department of Physics, University of Douala"

Home: University of Douala
Host: Université Cheikh Anta Diop de Dakar (UCAD)

Nicholas OZOR, Nigeria

"Influencing curriculum development and knowledge of climate change issues at the University of Nigeria, Nsukka and environs"

Home: University of Nigeria, Nsukka
Host: N/A

Doctoral Research Fellows

Grace ADENIJI, Nigeria

"Assessing women's coping strategies with respect to water variability and vulnerability in the Oyo North Region, Nigeria"

Home: Lead City University

Host: University of KwaZulu-Natal (UKZN)

Paul AHIDJO, Cameroon

"Ecology and history of settlements on the outskirts south of lake Chad : links between climate insecurity, human movement, adaptation strategies and environmental restoration of the XVIe - XXe century"

Home: University of Ngaoundere, Cameroon

Host: TBD

Vincent Olanrewaju AJAYI, Nigeria

"The impact of land-use changes on the Rainfall efficiency of the West African Mesoscale convective system (MCS)"

Home: Federal University of Technology – Akure

Host: University of Cape Town - Climatic Systems Analysis Group (UCT-CSAG)

Warvar P. Isabelle DABIRE, Burkina Faso

"Economic interest of seasonal forecasting in Burkina Faso: Bio-economic modeling for agricultural farmers"

Home: Institute for Environmental and Agricultural Research (INERA)

Host: University of Ghana, Department of Geography

Temesgen DERESSA, Ethiopia

"An analysis of the determinants of Ethiopian farmers' choices with respect to coping mechanisms for climate extremes"

Home: University of Pretoria

Host: International Food Policy Research Institute (IFPRI)

Augustin KABORE, Burkina Faso

"Community strategies for adaptation to climate change: Case study of sacred forests in the sociocultural context of Moaaga of Burkina Faso"

Home: University of Abomey-Calavi, Benin

Host: Centre for International Forestry Research (CIFOR), Burkina Faso

Amidou Njiloh KPOUMIE, Cameroon

"Impacts of and adaptations to climate and anthropological changes on water resources: Agro-pastoral activities and energy production in the Sanaga catchment area, Cameroon"

Home: University of Yaounde

Host: University of Cadi Ayyad

Tiganadaba LODOUN, Burkina Faso

"Impact of climatic variability and change on food security in Burkina Faso"

Home: Institute of Environment and Agricultural Research (IEAR)

Host: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Mali

Chipo Plaxedes MUBAYA, Zimbabwe

"Farmers' coping and adaptive strategies to climate variability and change: experiences from Zambia and Zimbabwe"

Home: Midlands State University

Host: Institute of Resource Assessment, University of Dar es Salaam (IRA-U DSM)

Mzime Regina NDEBELE-MURISA, Malawi

"Modeling primary production in Lake Kariba as a means of mitigating against climate change"

Home: University of Zimbabwe

Host: University of KwaZulu-Natal (UKZN)

S.W. Charles RECHA, Kenya

"Potential Climate Impacts And Associated Vulnerabilities on Water Resources and Livelihoods at the Household Level: Tharaka District, Kenya"

Home: Kenyatta University

Host: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Mali

Emmanuel TACHIE-OBENG, Ghana

"Modeling adaptation responses to climate change scenarios for food security in Ghana"

Home: University of Ghana

Host: University of Cape Town - Climatic Systems Analysis Group (UCT-CSAG)

Bernard TYUBEE, Nigeria

"The Urban Heat Island in Makurdi, Benue State"

Home: Benue State University

Host: Makerere University

Post-Doctoral Research Fellows

Getachew Tesfaye ABEBE, Ethiopia

"Predicting climate change effects on reproductive phenology and distribution of coffee 'Arabica I.' in the afro-montane rainforests of Ethiopia"

Home: Institute of Biodiversity Conservation

Host: Makerere University

Pierre AKPONIKPE, Benin

"Use of numerical computer simulations to evaluate the effectiveness of farmers' agricultural management strategies for climate change adaptation in Sub-Saharan West Africa"

Home: Faculty of Agronomical Sciences, Laboratory of Hydraulics and Water Management (LHME)

Host: University of Cape Town - Climatic Systems Analysis Group (UCT-CSAG)

Ladislau Benedict CHANG'A, Tanzania

"Improving drought early warning system in Tanzania: A case of Southwestern Tanzania"

Home: Tanzania Meteorological Agency

Host: Institute of Resource Assessment, University of Dar es Salaam (IRA-U DSM)

Aliou DIOUF, Senegal

"Climate change and food security in West Africa: Climate change impacts and strategies for adapting in agriculture (rain) and in livestock breeding in two regions in Senegal: Sob (Fatick) and Tatki (Ferlo)"

Home: N/A

Host: Université Cheikh Anta Diop de Dakar (UCAD)

Mayowa Johnson FASONA, Nigeria

"Patterns of terrestrial ecological imprints and feedbacks and their implications on climate change adaptation in the wooded savannah of Nigeria"

Home: University of Lagos

Host: University of Cape Town - Climatic Systems Analysis Group (UCT-CSAG)

Sisthabiso GANDURE, Zimbabwe

"The impact of agriculture-based climate change adaptation strategies on food security among smallholder farmers in southern Africa"

Home: University of Zimbabwe, Center for Applied Social Science

Host: University of the Free State, Department of Soil, Crop, and Climate Science

Cyriaque-Rufin NGUIMALET, Central African Republic

"Surveying climate change perceptions and local coping strategies for water management: Cases of Sibut, Kaga-Bandoro and Bouca (Central African Republic)"

Home: University of Bangui

Host: Egerton University

Nhamo NHAMO, Zimbabwe

"Indigenous knowledge and climate change adaptation: Assessing the effectiveness of smallholder farmers' adaptation options for water and nutrient productivity in agriculture"

Home: N/A

Host: University of Ghana, Department of Crop Science

Sean Henry O'DONOGHUE, South Africa

"Developing regionally-specific algorithms for chorophyll-a satellite image data in the case 2 waters of the Natal Bight"

Home: University of KwaZulu-Natal (UKZN)

Host: University of KwaZulu-Natal (UKZN)

Saidu OSENI, Nigeria

"Climate change, genetics of adaptation and livestock production under low-input systems"

Home: Obafemi Awolowo University

Host: Egerton University

Fritz Oben TABI, Cameroon

"Soil fertility management options adapted to changing climatic conditions in lowland rice-based cropping systems"

Home: University of Dschang

Host: University of Ghana, Department of Crop Science

Edouard Henri TONNANG ZEFACK, Cameroon

"Predicting and mapping the potential redistribution of malaria vectors in Africa: Informing malaria control programmes"

Home: N/A

Host: Institute of Resource Assessment, University of Dar es Salaam (IRA-U DSM)

Mamadou TRAORE, Burkina Faso

*"The potential for agronomical enhancement via application of *Jatropha curcas* oilcake as a fertilizer on maize plots"*

Home: University Polytechnic of Bobo Dioulasso, Institute of Rural Development

Host: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Niger

The ACCFP and its Sponsors

The African Climate Change Fellowship Program is jointly administered by the global change SysTem for Analysis, Research and Training (START), the Institute of Resource Assessment (IRA) of the University of Dar es Salaam and the African Academy of Sciences (AAS), with generous financial support from the Climate Change Adaptation in Africa program (CCAA). The CCAA is jointly funded by the International Development Research Centre (IDRC) of Canada and the UK's Department for International Development (DFID). For additional information about the ACCFP, please visit:

www.accfp.pass-africa.org

Specific questions about the ACCFP may also be directed to Clark Seipt at the International START Secretariat (cseipt@agu.org), Madaka Tumbo at IRA-University of Dar es Salaam (pass@ira.udsm.ac.tz) and/or Patricia Jeconiah at AAS (p.jeconiah@aasciences.org).



START (the global change SysTem for Analysis, Research, and Training) is a framework of collaborating organizations that develops scientific capacity and generates knowledge to support decisions for building resilience to global environmental change and enabling sustainable development. The START framework consists of regional science committees, research centers, research nodes and secretariats located in Africa, Asia, Oceania and the USA, as well as participating scientists located throughout the developing and developed world. Through this framework, START conducts research on regional aspects of global environmental change, including climate change; provides fellowship, training and education opportunities; shares knowledge, expertise and data; bridges science and society to support decision making; and mobilizes financial, institutional and human resources to carry out research, capacity building and decision support activities. START is sponsored by IGBP, IHDP and WCRP and is part of the Earth System Science Partnership. For more information about START, please visit www.start.org.



The **Institute of Resource Assessment** (IRA) is based at the University of Dar es Salaam in Dar es Salaam, Tanzania. The mission of IRA is to enhance sustainable capacity in human, financial and physical resources in order to excel in quality research, teaching and service provision to the community in natural resources management and further its image as a center of excellence in knowledge creation and skills development at the postgraduate level. The Pan-African START Secretariat (PASS) is located at IRA-University of Dar es Salaam. PASS, guided by the Pan-African Committee for START, coordinates START's activities in Africa. For more information about IRA and PASS, please visit <http://ira.udsm.ac.tz> and www.pass-africa.org.



The **African Academy of Sciences** (AAS) is an Africa-wide, professional, nonpolitical, and nonprofit organization of senior scientists, science policy experts, and science managers. The AAS vision is to be the engine driving scientific and technological development in Africa. Its mission is to serve Africa, first, as an honorific society with the primary function of honoring African science and technology achievers, and second, as a development-oriented mobiliser of the African science and technology community. The AAS plays the fundamental role of facilitating development of scientific and technological capacity for science-led development in Africa, promoting excellence and relevance in doing so. The AAS secretariat is in Karen, Nairobi, Kenya. For more information about AAS, please visit www.aasciences.org.



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