Plenary speakers

Read more

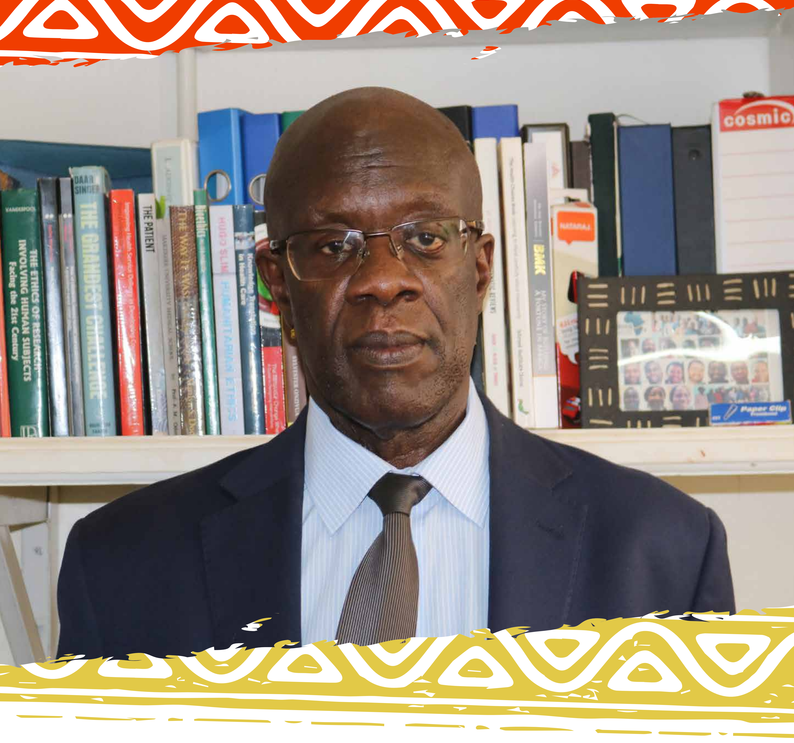
Professor Samba Sow

10.10-10.40

Title: Establishing a centre of excellence in vaccine research in Mali

Director of CVD-Mali, **Professor Samba Sow** is a medical doctor and epidemiologist. He has spent his career working to improve the lives of Malians and in the course of that work has received numerous honours, including the French Legion of Honor and the National Order of Merit in 2017 for his work on the Ebola epidemic. He also received the 2000 Paul Laviron Prize in Tropical Medicine from the University of Marseille (France) and was the Commemorative Fund Lecturer of the American Society of Tropical Medicine and Hygiene in 2006.

Professor Sow was Minister of Health and Public Hygiene for Mali between April 2017 and May 2019 and instituted a series of visionary health sector reforms, to provide free antenatal and maternal healthcare as well as free care for children under five years old. In 2020, he was appointed WHO Special Envoy for Covid-19 in West Africa.



Professor Nelson Sewankambo

3.30-4.00

Title: THRiVE, A DELTAS research consortium marks a decade of progress

Professor Nelson Sewankambo MBChB, MSc, M.MED, FRCP, LLD (HC), Professor Emeritus and a former Dean of Makerere University Medical School, Uganda, and a past Principal at the Makerere University College of Health Sciences. He facilitated the establishment of many global health collaborations between Makerere University and institutions in both high as well as low and middle-income countries. He is a Principal Investigator on several research and capacity building projects that are externally funded including THRiVE (Training Health Researchers into Vocational Excellence in East Africa), a DELTAS Africa-supported program. He is a Fellow of the Uganda National Academy of Sciences and the African Academy of Sciences and was a Vice-President of the Network of African Science Academies (NASAC). He is a Fellow of the Royal College of Physicians, London; He is a recipient of several honorary awards including a Doctorate of Letters from Johns Hopkins University, School of Public Health; a Grand Silver Medal from Karolinska Institute, Sweden; a Doctor of Laws, Honoris Causa from McMaster University in Canada, Fellow of London School of Hygiene and Tropical Medicine, and an external affiliate of the US National Institute of Medicine (formerly US Academy of Medicine).

Morning speakers

Read more

Dr. Caroline Trotter & Dr. Sharath Srinivasan

Chairs of morning session

Caroline was appointed Academic Director for Cambridge-Africa in October 2018, succeeding Professor David Dunne (the founding Director in 2008). She is a Principal Research Associate in Epidemiology at the University of Cambridge and an honorary epidemiologist at Public Health England. Her research examines the potential and actual impact of immunisation using a range of methods from classic epidemiology to mathematical modelling and health economics. Her work has been used to inform national and (as a consultant to the World Health Organisation) international vaccine policy. Much of Caroline's research is focussed on meningococcal disease and carriage in the UK and Africa, working with African partners, including the African Meningococcal Carriage Consortium (MenAfriCar). She has been involved in a range of projects in the African meningitis belt, both to quantify the impact of MenAfriVac (an affordable group A meningococcal conjugate vaccine), and to investigate both short (epidemic response) and long-term (preventive vaccination) options for the control of epidemic meningitis. She also has current projects on the impact of vaccination against group B streptococcus and rabies.

Sharath Srinivasan is David and Elaine Potter Associate Professor at the University of Cambridge's Department of Politics and International Studies, a Fellow of King's College Cambridge, and Co-Director of the University's Centre of Governance & Human Rights (CGHR). Sharath's teaching, research, and applied collaborations lie at the intersection of contentious politics, civic action and technology, especially in Africa. His work unravels the politics of how artefacts that shape our political world are made – institutions that peacemakers 'build', more recently, in the design and distribution of communication technologies – and implications for civil political action. This has led to projects on failed peace interventions and civil politics (When Peace Kills Politics, Hurst/Oxford UP; Making and Breaking Peace in Sudan and South Sudan, ed, British Academy/Oxford UP), and on digital publics (Publics in Africa in a Digital Age, ed, Routledge). Alongside, he has spun out from research the award winning non-profit Africa's Voices Foundation, and recently launched civic technology start-up Katikati with a computer science colleague, based on their support to the Covid-19 response in eastern Africa.

Dr Abidemi Babatunde Babalola & Dr Kingsley Chinedu Daraojimba

10.50-11.10

Title: Science, technology, and innovation from Africa: Perspectives from Archaeology in Nigeria

Dr Abidemi Babatunde Babalola is the Andrew Mellon fellow at the Scientific Research Department of the British Museum and a Visiting Scholar at the Center of African Studies, University of Cambridge. He was the Smuts Research Fellow at the Centre of African Studies and a Fellow at the McDonald Institute for Archaeological Research, University of Cambridge (2018-2021). He was a Research Affiliate at the Science and Technology in Archaeology and Heritage Centre of the Cyprus Institute (2017-2018). From 2016 to 2018, Dr Babalola was the McMillian Stewart Fellow at the Hutchins Centre for African & African American Research, Harvard University. Trained at the University of Ibadan, Nigeria (B.A and M.A) and Rice University, USA (Ph.D.), Dr Babalola's research focuses on the intersection of science, technology, innovation, and the emergence of complex societies in early West Africa. His research on 'archaeology of glass in Southwest Nigeria' has received several grants and awards including the 2019 Shanghai Archaeology Forum Discovery Award and the Cambridge-Africa Alborada grant. Dr. Babalola has published in top-tier journals including Journal of Archaeological Science, Antiquity, Journal of African Archaeology, Journal of Black Studies, and the International Journal of African Historical Studies among others.

Dr Kingsley Chinedu Daraojimba is an Environmental Archaeologist and Lecturer at the Department of Archaeology and Tourism, University of Nigeria, Nsukka. He obtained his degrees (B.Sc 2007; M.Sc 2010 and Ph.D 2017) from the Department of Archaeology and Anthropology, University of Ibadan, Nigeria. Dr Daraojimba is a 2020 African Humanities Program (AHP) Postdoctoral Fellow of the American Council of Learned Societies (ACLS). He was a University of Ibadan Postgraduate School Teaching and Research Assistant (2013-16). He obtained Certificates in Global Social Archaeology, Kyushu University, Japan (2016) and Community Archaeology, University of Cambridge (2019). Dr Kingsley has received several awards and research grants, some of which include Early Career Academic Grant, Association of Commonwealth Universities (ACU), (2018); Society of Antiquaries of London (SAL) Research Grant (2020 and 2022); Cambridge-Africa Alborada Research Grant (2020-2021). His research interest straddles Nigerian archaeology and ethnohistory; Melissopalynology; human-environment relationship; palaeoenvironment and vegetation history of the Quaternary period; community archaeology and public engagement. He has several publications to his credit. He directs archaeological projects in Eastern and Western Nigeria including Igbo-Ukwu and Owu Archaeology Projects, respectively. He is currently a Newton International Postdoctoral Fellow at the McDonald Institute for Archaeological Research, University of Cambridge.

Dr Lucia Corsini, Mr Mayamiko Nkoloma & Dr Seifu A Tilahun

11.10-11.30

Title: Rapid response blueprint: Lessons learned from the digital fabrication of crisis-critical items in Ethiopia and Malawi

Dr Lucia Corsini is a Lecturer in Product Design Engineering at Brunel University London. Her research uses design and systems thinking to explore how digital technologies can tackle pressing sustainability challenges. Lucia was previously an ESPRC DTP Fellow at the Department of Engineering, University of Cambridge, and a Research Assistant at the University of Oxford. She holds an MEng, MA (Cantab) and EPSRC-funded PhD in Engineering from the University of Cambridge. Lucia has published several papers in prestigious international journals such as Sustainability, Production Planning & Control, and Technology in Society and is the guest editor of a special issue on Design and Sustainability in Sustainability. She has received notable awards for her research from the Winton Programme for the Physics of Sustainability, Smart Villages, the Cambridge Malaysian Education, the University of Cambridge School of Technology and Development Trust and the Mohammed Bin Rashid Initiative. Additionally, Lucia advises on policy issues for governments and international organisations, and she has written reports and articles for the United Nations Industrial Development Organisation, the World Economic Forum, and the UK Department for Business, Energy, and Industrial Strategy. She is a consultant for IfM Engage at the University of Cambridge where she supports the development of Wellcome Trust-funded Adaptive Molecular Diagnostics for Low- and Middle-Income Countries.

Mr Mayamiko Nkoloma is a Lecturer in Telecommunications at the Malawi University of Business and Applied Sciences (MUBAS). He is a holder of an MSc in wireless communication from University of Sheffield in UK and also holds Master of Technology degree in advanced Information Technology with specialisation in Telecommunications and Networking from International Institute of Information and Technology (I²IT) in Pune, India. Additionally, he obtained a BSc in Electrical Engineering from the Malawi Polytechnic. Using his extensive knowledge and experience in Telecommunications and computer programming, his objective is to provide solutions through which beneficial, affordable and reliable up – to – date Information and Communication Technology (ICT) services can be derived, implemented and sustained to meet communication demands of people in developing countries. Apart from this, he likes building technological and innovative solutions with an aim of solving challenges and make life better. Mayamiko Nkoloma is a proprietor and CEO of iMoSyS, a growing Malawian tech company which is championing developing and deployments of Internet of Things (IoT) applications to enable connectivity for remote monitoring of Industrial processes, infrastructure and environmental aspects. The firm is pioneering in the development of smart water management system which is being adopted by water utility companies in Malawi. iMoSyS was recognised in 2017 and 2018 by at International Telecommunication Union (ITU) as an SME applying ICT solutions with greatest social impact. He has been a team leader of a project conducted in the Ministry of Health - Malawi on e-Health for community intervention which was aimed at reducing Tuberculosis (TB) cases by enhancing the current system through the use of technology to enable tracking of the flow of TB samples from the community level up to point of treatment initiation. The solution is being deployed in health facilities across the country. Remarkably, the solution is built on top of mobile communication and web based platforms through the use of open source tools. The innovative CEO and lecturer has developed solutions that are not only adopted locally in the country Malawi, but have find themselves being embraced by big corporations across the world, for example in Kuwait and United Kingdom. Mayamiko Nkoloma has received numerous local and international awards. Notably he was awarded by ICT Association of Malawi (ICTAM) for being innovative by applying ICTs in the field of technology. Apart from this, recently he received the prestigious yearly, national innovation award in the field of Science and Technology from Malawi Broadcasting Corporation (MBC). In both 2017 and 2018, he received a global award at ITU Telecom world for promoting innovative ICT solutions with greatest social impact.

Seifu A Tilahun is Associate Professor at the Bahir Dar University in Ethiopia. Dr Tilahun holds a BSc in Civil Engineering from Bahir Dar University, MS in Hydraulic Engineering from Addis Ababa University and a PhD in Biological and Environmental Engineering from Cornell University. He has currently an associate professor position within Faculty of Civil and Water Resources Engineering of Bahir Dar Institute of Technology. He held a position of scientific director of Bahir Dar Institute of Technology when the digital fabrication for rapid response during COVID implemented. As part of his administration, he has been trying to improve the innovation ecosystem by establishing BiT makerspace where PPE fabrication conducted. His research interest is however on hydrology and water resources managemnt. He has around more than 100 publications.

Dr Jenny Molloy & Stephane Fadanka

11.30-11.50

Title: Towards distributed manufacturing for the bioeconomy in Africa

Stephane Fadanka is a Molecular Biology researcher and Executive Director at Mboalab, a community innovation hub located in Yaounde, Cameroon. Stephane works with the UK based Beneficial Bio and Open Bioeconomy Lab to make research tools and protocols more accessible to researchers in Cameroon and abroad through local manufacturing of reagents for molecular biology research and application. Stephane is also SynBio Africa Emerging Leader in Synthetic Biology and Biosecurity fellow and a fervent advocate of Open Science in Africa sharing his experience in open science as an Outreach mentor and as Open Science Ambassador with the Open Life Science (OLS-5) program.

Dr Jenny Molloy is a Senior Research Associate at the University of Cambridge building technologies for an open, globally inclusive and equitable bioeconomy through the Open Bioeconomy Lab. She develops biomanufacturing tools and technologies that are sustainable by design and deployable in low-resource contexts. Her group also investigates the most effective ways that their research can make a positive impact in developing and emerging economies, particularly the effect of open licensing and collaborative development with end users. Jenny is a member of the World Economic Forum Global Future Council on Synthetic Biology, chairs an independent multi-sectoral working group on Local Production and Diagnostic and has co-founded four social enterprises and nonprofits supporting the development and deployment of open source tools for science.

Dr David Izuogu

11.50-11.55

Title: The serendipity and design of scientific innovation in Africa: A case for single-molecule magnets and quantum information processing

Dr David Izuogu was a Cambridge-Africa scholar and the winner of the inaugural Dr Amit Bhasin Prize for an outstanding African postgraduate at Cambridge in 2021. He completed his PhD in Theory and Computational Chemistry at the University of Cambridge where he used computational techniques to investigate smart materials known as single-molecule magnets for quantum information processing. His undergraduate and master's degrees were obtained from the University of Nigeria, Nsukka and Tohoku University, Japan respectively. David comes with a diverse professional background in academia and business. He recently worked as a consultant and Venture Associate with Start Codon venture capital in Cambridge, UK as well as a Research Associate at the University of Cambridge, UK.

He now doubles as a part-time Lecturer at the University of Nigeria, Nsukka and a visiting Lecturer at Covenant University, Nigeria. He also holds a position as an Associate at McKinsey. He is the founder of 'Africa of Our Dream' Initiative, a charity that supports minority students from Africa to pursue Higher education at top global universities and bridges the gap between researchers in the global north and their counterparts in the global south through research partnerships. While in Cambridge, he served in various leadership positions and board of trustees including those of Wolfson College, Cambridge Black Advisory Hub, and Cambridge-Africa Strategic Advisory Board among others. His various leadership, entrepreneurial and academic experiences have earned him numerous awards including the CAS Future Leader award, Outstanding Student Contribution to Education Award – Access & Outreach category, and the Trinity Bradfield Entrepreneurial prize among others.

Dr Tonny Okedi

11.55-12.00

Title: Electricity generation using cyanobacteria

Dr Tonny Okedi's PhD explored the use of photosynthetic bacteria for generating low-carbon electricity from just sunlight as an energy source and water as an electron source. This has the potential to provide low-cost, small- or micro-scale electricity in developing regions, as well as reduce the energy demands for the remediation of wastewater. His research combined electrochemistry and machine learning to elucidate the factors that affect the sunlight-to-electricity harvesting efficiency of the bacteria.

Afternoon speakers

Read more

Professor James Wood

Chair of Collaboration section

Professor James Wood is a veterinary epidemiologist who leads the Disease Dynamics Unit in Cambridge University and conducts multidisciplinary research on infectious diseases. He is also Dean of Cambridge University Veterinary School. His research interests are focussed on One Health approaches to infectious disease emergence and its control and are based in UK, India, Ghana and Ethiopia. He is involved in collaborative studies of emergence of RNA viruses from fruit bats and control of bovine tuberculosis. He chairs the Cambridge-Africa science advisory group (CASAG).

Prof. Dr.-Ing Esayas Alemayehu & Dr Ronita Bardham

1.15-1.30

Title: Heat and Health Risks in transitional housing of Ethiopia – A path towards design solution

Prof., Dr.-Ing Esayas Alemayehu is a Ph.D (Dr.-Ing) with highest distinction, magna cum laude, in Environmental Engineering from Rostock University, Germany. He is Professor in Water and Environmental Engineering and was Scientific vice Director at Jimma University till 2018. Professor Alemayehu has enriched experiences to coordinate several multidisciplinary international research and capacity building projects since 2001. He is co-founder of Gilgel Gibe Field Research Center (GGFRC), Ethiopia. He has contributed to high quality community based research in the field of Public and Environmental Health including appropriate housing, indoor air pollution control, climate change mitigations, basic vital events, low-income energy sources, WASH, etc. Professor Alemayehu has proven successful in the management of research projects on thermal comfort and adaptive mechanisms in residential buildings, including Integrated Housing Development Programme (IHDP) of Ethiopia. His current research interest includes appropriate engineering solutions to mitigate overheating and indoor air pollution in IHDP houses. Prof., Dr.-Ing Esayas Alemayehu has authored more than 100 papers, has presented at numerous international and national conferences. He is also serving as a Senior Consultant, Practicing Engineer as well as Chief Professional. Professor Alemayehu has supervised and graduated 11 doctoral students and more than 100 master's students. Professor Alemayehu received several institutional and national awards from the institutions for Outstanding Academic & Research Achievements.

Dr Ronita Bardhan is Associate Professor of Sustainability in Built Environment at the Department of Architecture, University of Cambridge. She is the Director of MPhil in Architecture and Urban Studies (MAUS) and leads the Sustainable Design Group at the university. Her research focuses on data-driven design for built environments that respond by reducing health and energy burdens in the warming climate. Bardhan combines architectural engineering, AI and machine learning with social sciences to develop built environment design solutions for low-income communities. Bardhan specialises in data-driven design for developing context-specific solutions in the affordable housing sector. She has intensively worked on developing sustainable, low-cost design and technology solutions for transitional and affordable housing design in the Global South - India (Mumbai), Africa (Ethiopia), and South Africa (Cape Town). Her impactful work on developing design solutions for reducing the burdens of tuberculosis, heat health and poor indoor air quality in low-income housing of the Global South has received immense traction from policymakers. Bardhan currently advises government departments and agencies on energy efficiency and heat health in affordable housing and has written over 130 academic articles on the health and environmental design of the affordable residential built environment. Bardhan specialises in data-driven design for developing context-specific solutions in the affordable housing sector.

Dr Stéphanie Swarbreck & Dr Kebebew Assefa

1.30-1.45

Title: Exploring tef root and shoot diversity to select for improved field performance

Dr Stéphanie Swarbreck, Group Leader Crop Molecular Physiology, is interested in understanding how plants integrate and respond to different environmental conditions such as nutrient availability and the presence of neighbour (e.g. weeds). Her research aims to provide useful information for the development of crop varieties that can produce high yield with lower herbicide and fertiliser inputs. Through collaboration with Ethiopia and India, she has strong interest in millet species (e.g. foxtail millet, pearl millet and finger millet) as well as tef (Eragrostis tef).

Dr Kebebew Assefa, Lead Researcher, Ethiopian Institute of Agricultural Research (EIAR), was trained in plant sciences (Bsc) and agronomy (Msc) at Addis Ababa University and obtained his PhD in Plant Breeding and Genetics from the Swedish University of Agricultural Sciences. He principally works on tef though has some interest in chickpea. Dr Kebebew currently leads the national tef research program in Ethiopia. He has published >100 peer-review publications focusing on tef genetics and many articles arguing for the need to support research in orphan crops. His work has led to the development and adoption by farmers of new tef varieties.

Dr John Eleblu

1.45-1.50

Title: Cowpea Tissue Culture and Regeneration at the West Africa Centre for Crop Improvement (WACCI) towards the Development of Climate Smart Varieties

In 2013, **Dr. Eleblu** was awarded a PhD degree in Plant Biology from the University of Paris Sud 11 (now Paris Saclay), Orsay, France for his work on the functional characterization Cucumis melo CmWIP1 gene using Arabidopsis thaliana as a model system. He had his Bachelor of Science in Agriculture and MPhil Crop Science degrees from the University of Ghana, Legon in the year 2005 and 2007 respectively. At the postgraduate level, he specialized in Genetics and Breeding. He won the African Scientist Award and served as a Visiting Research Scientist under the African Research Fellowship of the Institute for Genomic Diversity (IGD), Cornell University, USA where he managed a research project on the genetic contributions of PINNOID genes in Maize plant and kernel architecture development (2007 – 2008). His current research interests are in the genetic improvement of legumes and cucurbits for food and nutrition security in Africa. Dr. Eleblu has served as Principal Investigator on many projects and his collaborative work has led to the training of more than 4,000 farmers, 300 extension agents. He has supervised more than 10 PhD students and has over 22 scientific publications in international peer-reviewed journals.

Professor Eugene Ndabaga & Professor Ricardo Sabates Aysa

1.50-2.05

Title: Understanding strategies and principles used by Rwandan primary school teachers to enable learning: Moving beyond language barriers

Professor Eugene Ndabaga holds a Doctorate in Educational Management, Policy and Planning from the University of Bath, UK. He is Associate Professor at University of Rwanda-College of Education. He is also the Director of Research and Innovation, as well as the Chief Editor of the Rwandan Journal of Education. For eight years, he was the Vice Rector/DVC in charge of Academic affairs at Umutara Polytechnic University in the Eastern part of Rwanda before the merger. Professor Ndabaga has vast experiences teaching and supervising students across secondary and higher education. He has been involving in a wide range of local and international research as well as consultancy projects that look into the roles of education in enabling positive social changes. The most recent work includes an ESRC/DFID funded study on Engaging teachers in peacebuilding in post-conflict contexts: evaluating education interventions in Rwanda and South Africa, in collaboration with the University of Sussex among other partners.

Professor Ricardo Sabates Aysa is the Director of Research at the Faculty of Education, University of Cambridge and a member of the Research for Equitable Access and Learning (REAL) Centre and the Cambridge Network for Disability and Education Research (CaNDER). Professor Sabates has 20 years of experience working in areas of educational inequalities, particularly for out of school children, children living in rural areas, those with disabilities and those experiencing other forms of exclusion. He has undertaken research in some countries of the Global South, particularly in Rwanda, Ethiopia, Ghana and India. Ricardo has expertise in the application of quantitative methods in education, understanding and measuring educational inequalities, and contributing to current debates on access and learning for the most marginalised populations. Current research focuses in understanding accountability relations in rural India, system change in Ethiopia, quality of education in Rwanda, as well as outcomes of education in diverse contexts.

Prof Suzzane Turner & colleagues

2.05-2.20

Title: The Uganda Cambridge Cancer Initiative (UCCI) collaboration

Prof. Suzanne Turner obtained her PhD from the world-renowned Paterson Institute for Cancer Research and the Christie Hospital in Manchester where she examined the potential toxic side-effects of chemoprotective gene therapy. This work was a collaborative effort with what was at that time the AstraZeneca Central Toxicology Labs at Alderley Edge. Following this training period Suzanne moved to a research post at the Babraham Institute in Cambridge where under the guidance of Dr Denis Alexander she began to investigate mechanisms of Lymphomagenesis, a subject that she has pursued to become a world-expert in paediatric lymphomas, specifically Anaplastic Large Cell Lymphoma (ALCL). For the past 16 years Suzanne has been leading an academic research group at the University of Cambridge within the Department of Pathology and based at the Addenbrooke's Hospital campus in Cambridge. It is here that Suzanne conducts academic research of an international standard and also teaches and examines aspects of the medical, veterinary and natural science tripos. Suzanne is also the director of postgraduate education in the Department of Pathology. In 2007, Suzanne was awarded the prestigious Leukaemia and Lymphoma Research (LLR; now Blood Cancer UK) Bennett Fellowship and in 2012 a further 5-year senior lectureship award. Amongst her achievements are the inception and establishment of the European Research Initiative on ALCL, a study group that brings together scientists from across Europe to foster collaboration and advancement in this important area of health research. Suzanne was also the lead of 'ALKATRAS', a European Union Marie Curie Innovative Training Network of 14 research groups in 7 EU countries and is currently non-clinical chair of the European Inter-Group for Collaboration into Childhood Non-Hodgkin Lymphoma (EICNHL), co-chair of the Cancer Research UK (CRUK) Cambridge Centre Paediatric Programme and biological lead for the National Cancer Research Institute (NCRI) paediatric lymphoma Clinical Study Group (CSG). Suzanne collaborates with a wide array of scientists and labs around the world, most notably the Uganda Cancer Institute in Kampala with whom she is working towards finding better therapies for children with cancer. Amongst her other interests Suzanne is the scientific advisor to the Alex Hulme Foundation and Francesca Richardson Trust. She is also a member of both the American and British Associations for Cancer Research (BACR/AACR), the Children's Cancer and Leukaemia Group (CCLG) in the UK and the International Society for Paediatric Oncology (SIOP). Suzanne also sits on the scientific committee of the European arm of SIOP, the MHRA plastics, reconstructive and aesthetic surgery (PRASEAG) committee and the European Commission's Scientific committee on Health, Environmental and Emerging Risks (SCHEER) working group on breast implants and cancer. In addition, she is a member of the review panels of the World Cancer Research Fund and the Swedish Research Council's medicine and health review panel.

To read more about the partners and the work of the Uganda Cambridge Cancer Initiative, please visit:
https://www.cambridge-africa.cam.ac.uk/initiatives/uganda-cancer-institute/

Professor Rose

Chair of the Afternoon session on Education

Professor Rose is a Professor of International Education, Director of the Research for Equitable Access and Learning (REAL) Centre and Co-Director of Cambridge Global Challenges at the University of Cambridge. Her research in sub-Saharan Africa and South Asia focuses on educational policy and practice, including in relation to inequality, financing and governance, and the role of international aid. Professor Rose works closely with international aid donors and non-governmental organisations, providing evidence-based policy advice on a wide range of issues aimed at fulfilling commitments to equitable access to quality education for all.

Roger Mosey

2.35-3.05

Title: Cambridge-Africa PhD scholars discuss their research with Roger Mosey

Roger Mosey is the Master of Selwyn College and a Deputy Vice-Chancellor of the University of Cambridge. Previously, he spent most of his career at the BBC. His final role was as Editorial Director, and previous jobs included being Editor of Today on BBC Radio 4; Controller of BBC Radio 5 Live; Head of BBC Television News; Director of Sport and the BBC Director of London 2012.
He was elected Master of Selwyn College in 2013. He was appointed as one of the Deputy Vice-Chancellors of the University of Cambridge in 2018. He is a Syndic of the Fitzwilliam Museum in Cambridge. He sits on the University Equality & Diversity Committee and chairs the management committee of the Family Research Centre. Roger is also president of the University Rugby Football Union.

Chilombo Musa is a PhD Candidate in Land Economy at the University of Cambridge. Her research explores low-income households' access to land and housing in Zambia. Focusing on urban areas, Chilombo uses a new institutional approach to investigate the institutional framework that characterized the emergence and evolution of formal and informal institutions in land and housing markets in informal settlements. The research findings show that a multiplicity of formal and informal institutions guide informal market transactions. These institutions interact at various stages of the market process and respond to social, political, and economic changes in informal settlements and a country's broader socio-economic and political landscape. The findings also show that the interaction of these institutions has created a mechanism that allows market actors to access 'centralised' information outside the social networks often attributed to informal settlement organization.
Further, the research shows that while many residents of informal settlements aspire to homeownership, renting is a crucial tenure option for low-income households and fulfils housing needs that formal markets cannot adequately meet. Chilombo is interested in continuing with this research post-PhD, particularly in developing policy tools that respond to the housing needs of low-income households.

Yaw Ofosu Ansong Snr is a licensed Medical Doctor by profession and a serial entrepreneur. He studied his Bachelor of Medicine and Bachelor of Surgery (Mb ChB) degree at the University of Cape Coast, Ghana. After working as a medical doctor in Ghana for a while, he went on to pursue a degree in Bioengineering (Neurotechnology Stream) at Imperial College London. During this period, he built a Soft Robotic Peristaltic Device for his thesis. Other projects he worked on included leveraging Machine Learning to build a Neural Decoder for moving a hypothetical prosthetic limb of a monkey. His PhD at the University of Cambridge is a niche intersection of Medicine and Surgery and Engineering. It will involve building an implantable device that will leverage engineering principles for the treatment of Spinal Cord Injuries. Other than medicine, engineering and entrepreneurship, Yaw enjoys playing sports and writing music.

Born in Zimbabwe, **Edward Murambwa** is a Mandela Rhodes Scholar (2018) and currently Cambridge Africa and Clutton-Brock Scholar with a background in Philosophy and Political Studies. He is reading for a PhD in Politics and International Studies at the University of Cambridge. Drawing on the experiences of targeted sanctions in Zimbabwe, his thesis titled: Targeted Sanctions and Sovereignty in Zimbabwe, investigates why it is impossible to target with precision as proponents of targeted sanctions have often suggested. The thesis argues that there is no difference between targeted sanctions and comprehensive sanctions. In his spare time, Edward enjoys a good run and workout, and cooking.

Peace Adesina is a third year PhD Chemical Engineering student at the University of Cambridge funded by Cambridge Africa. Prior to her doctoral studies, she completed her Master's degree in Advanced Chemical engineering at the University of Cambridge and her Bachelors' at Kwame Nkrumah University of Science and Technology (KNUST) in Ghana. Her doctoral research centres on a promising carbon recycling technology known as electrochemical conversion of CO2. Compared to other current technologies, CO2 electrolysis produces fuels and value-added industrial feedstock in a single process at ambient temperature and pressures. It also has the advantage of being powered by readily available resources such as water and renewable energy. This process when integrated with existing technologies like carbon capture could become a potential cornerstone towards a circular economy. Aside from her research, she is very passionate about a sustainable energy future and the intersection between the clean energy technology, energy policy and finance.

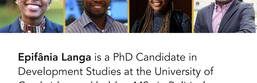
Dr. Anne Makena & Dr. Tabitha Mwangi

4.00-4.30

Title: Oxbridge PhD scholars discuss Post PhD decisions: Should I stay or should I go?

Dr Anne Makena is the Co-Director of the Africa Oxford Initiative (AfOx), a vibrant platform for 'all things Africa' at the University of Oxford. AfOx facilitates academic and research partnerships by supporting a wide range of activities including researcher mobility schemes for African academics; organising high-quality research engagement meetings and providing financial, academic and mentorship support to African students and research staff in Oxford. Anne has been actively involved in various initiatives with global research funders including contributing to the Africa Strategy for the UK Research and Innovation, participating in the Rethinking Research Partnerships Collaborative and supporting career development initiatives in partnership with the African Academy of Sciences. Anne completed the DPhil in Chemical Biology as a Rhodes Scholar at the University of Oxford with a research focus on biochemical characterisation and inhibition of bacterial enzymes involved in antimicrobial resistance. She is currently taking an Executive MBA program at the Said Business School, with a focus on Strategy and Innovation. Prior to joining Oxford, Anne worked at the Academic Model Providing Access to Healthcare (AMPATH) consortium, a partnership between Moi University (Kenya), Moi Teaching and Referral Hospital (Kenya), the Kenyan Government and National Hospital Insurance Fund and Indiana University. Anne has also served as a consultant in equity in research, risk mitigation in collaborative research with LMIC countries and partnership management in major international research programs. Anne is committed to supporting research excellence in Africa and believes in the power of sustainable and impactful research ecosystems to build innovative, equitable and prosperous societies.

Tabitha Wanja Mwangi joined the Cambridge-Africa team as Programme Manager in January 2021. Prior to that she was senior lecturer in Public Health at Anglia Ruskin University, UK and Pwani University in Kilifi, Kenya, were she taught both undergraduate and post-graduate students. Tabitha started her higher education at the University of Nairobi in Kenya, earning a Bachelor's in Veterinary Medicine and MSc in Veterinary Epidemiology. She worked as a research scientist for 10 years at the Kenya Medical Research Institute -Wellcome Trust Research Program in Kilifi where she completed her PhD in malaria epidemiology and published in several peer-reviewed academic journals. Tabitha is actively involved in communicating science for public consumption through writing for newspapers (Nation Media Group, Kenya) and magazines (Msafiri, KQ flight magazine) as well as appearing on radio programs (BBC Health Check program). She wishes her writing to inform on the excellent research that African scientists do as well as inspire a younger generation of Africans into science.



Epifânia Langa is a PhD Candidate in Development Studies at the University of Cambridge and holds a MSc in Political Economy of Development from SOAS, University of London and a BSc in Economics from Universidade Eduardo Mondlane. Epifania has over 8 years of experience working as an economist and researcher in Mozambique for national and international institutions including the International Labour Organization, Institute of Social and Economic Studies, the Mozambican government, among other stakeholders. Her research interests include industrial policy, natural resources-based industrialisation and regional integration in Africa.

Martin Wagah is a 1st year PhD fellow at the Wellcome Sanger Institute, University of Cambridge, reading genomics. He has an over-arching interest in malaria control. He has worked on developing spectroscopic techniques for detecting malaria parasites; developing molecular techniques for high throughput detection of insecticide resistance; testing computational techniques for investigating genomic architectures; performing multi-site clinical trials for the investigation of health interventions and generating systematic evidence through Cochrane reviews to inform WHO malaria control strategies. As a leader in various institutions such as the African Society of Cambridge University, SkyWatch, the Kenyan chapter of the UNESCO Youth Forum, and the Freethinkers Initiative Kenya, Wagah advocates for Pan Africanist principles and the use of critical thinking especially within non-academic socio-political discourses. He calls for the resurgence of intellectuals as the central public figures in Africa. Martin is also an avid chess player, debater and writer.

Morategi Kale is a third year DPhil student in Human Geography at the University of Oxford. Her research aims to investigate the experiences of young, Black graduates in South Africa who are under- and unemployed. In particular, she is interested in both the material and emotional aspects of unemployment and how the relate to future-making, care and (higher) education in South Africa. Morategi is also currently the Student Engagement Officer at AfOx. Her role involves creating and implementing programmes to support African graduate studying in Oxford and supporting prospective African applicants. After completing an undergraduate degree in International Relations and Philosophy from the University of Cape Town, Morategi went on to Oxford to do an MSc in African Studies with a focus on young people and their transitions from school to work.

Ebenezer Azamati is currently a DPhil student in International Relations at University College. He has extensive experience in leadership positions as Equalities Officer at Mansfield College, Oxford and as Deputy Speaker of the Student Representative Council at the University of Ghana. As President, he would like to ensure that the Africa Society remains relevant to all Africans in Oxford and beyond.